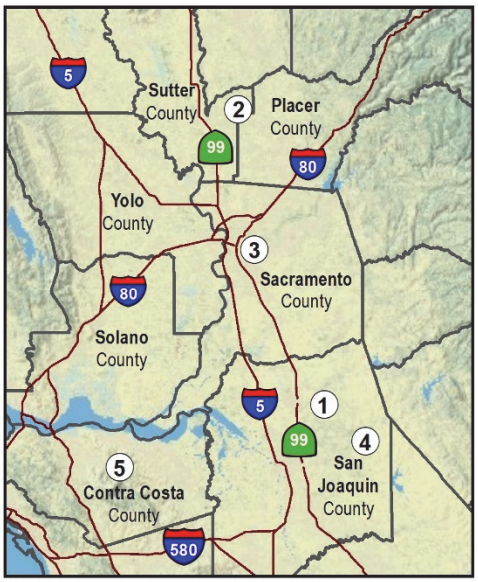

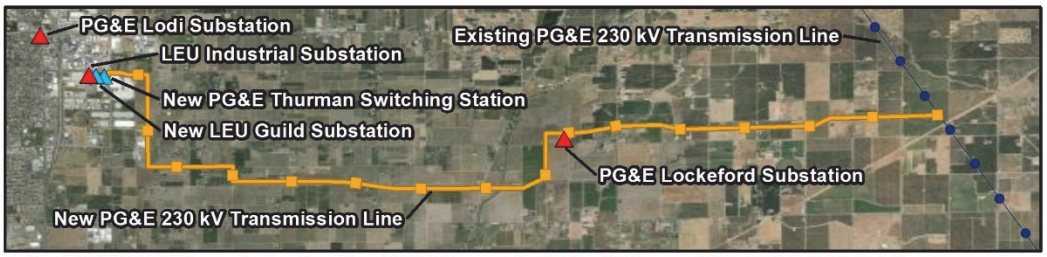

1. New PG&E 230 kV Transmission Line, New PG&E Thurman Switching Station, and New LEU Guild Substation



2. PG&E Rio Oso Substation



3. PG&E Brighton Substation



4. PG&E Bellota Substation



5. PG&E Clayton Hill Repeater Station

Proponent's Environmental Assessment for Pacific Gas and Electric Company's Northern San Joaquin 230 kV Transmission Project

September 1, 2023

A new 230 kV transmission system with approximately 10.6 miles of new double-circuit 230 kV transmission lines, an expanded substation, a modified substation, a new substation, a new switching station, reconfiguration of four existing 60 kV lines, relocation or extension of two existing 12 kV lines, and upgrades at four remote-end substations and one repeater station are proposed.

The project would be located primarily in northeastern San Joaquin County and in the City of Lodi, California, with remote-end facilities in Contra Costa County, Linden, Lodi, Rio Oso, and Sacramento, California.

Application A.23-09-XX to the California Public Utilities Commission

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Appendix C4 Species Table

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Appendix C6 PG&E Nesting Bird Management Plan Summary

Appendix D1 Architectural Identification and Evaluation Report

Appendix D2 Cultural Report CONFIDENTIAL VERSION: Appendix D2, Cultural Report contains confidential material and has been removed in its entirety. The report will be filed via archival grade DVDs with the Docket Office.

Appendix D3 Cultural Report Addendum CONFIDENTIAL VERSION: Appendix D3, Cultural Report Addendum contains confidential material and has been removed it its entirety. The report will be filed via archival grade DVDs with the Docket Office.

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Acronyms and Abbreviations

‘	foot (feet)
“	inch(es)
<	less than
>	greater than
°F	degree(s) Fahrenheit
µg	microgram(s)
µg/m^3	microgram(s) per cubic meter
1B	rare, threatened, or endangered in California and elsewhere
A	ampere(s)
AADT	annual average daily traffic
AB	Assembly Bill
ACC	aluminum conductor
AC/DC	alternating current/direct current
ACM	asbestos-containing materials
ADA	Americans with Disabilities Act
ADT	average daily traffic
AES	aesthetics
A/G	general agriculture
AGR	agriculture
AIR	air quality
A/L	limited agriculture
ALUP	Airport Land Use Plan
AMM	avoidance and minimization measure
Anon.	anonymous
ANSI	American National Standards Institute
API	area of potential impact
APLIC	Avian Power Line Interaction Committee
APM	applicant-proposed measure
APN	Assessor Parcel Number

AQMP	air quality management plan
ASCE	American Society of Civil Engineers
AST	aboveground storage tank
A/UR	agricultural-urban reserve
BAAH	breaker-and-a-half
BCC	Birds of Conservation Concern
BESS	battery energy storage solution
BGEPA	Bald and Golden Eagle Protection Act
BLM	U.S. Bureau of Land Management
BIO	biological resources
BMP	best management practice
BSA	biological study area
BNSF	Burlington Northern Santa Fe Railway
C/RS	rural service commercial
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CA HSC	California Health and Safety Code
CAISO	California Independent System Operator
cal BP	calendar years before present
CalEEMod	California Emission Estimator Model
Cal/EPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
Cal/OSHA	California Division of Occupational Safety and Heath
CAPCOA	California Air Pollution Control Officers Association
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CCaIC	Central California Information Center
CCR	California Code of Regulations
CCRD	PG&E Confidential Cultural Resource Database
CCT	Central California Traction Company

CCVT	coupling capacitor-type voltage transformer
CDF	California Department of Forestry
CDFW	California Department of Fish and Wildlife
CE	Candidate Endangered
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CEC	California Energy Commission
CFR	Code of Federal Regulations
CGP	Construction General Permit
CGS	California Geological Survey
CH_4	methane
CHP	California Highway Patrol
CMP	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CPCN	Certificate of Public Convenience and Necessity
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	CNPS California Rare Plant Rank
CRS	PG&E Cultural Resources Specialist
CT	combustion turbine
CUPA	Certified Unified Program Agency
CUL	cultural resources
CVFPB	Central Valley Flood Protection Board
CWA	Clean Water Act
CWIP	California Water Indicators Portal

D	depth
dB	decibels
dBA	A-weighted decibels
DCTL	double-circuit transmission line
DMR	Division of Mine Reclamation
DOC	California Department of Conservation
DOL	U.S. Department of Labor
DOT	U.S. Department of Transportation
DPM	diesel particulate matter
DPR	Department of Parks and Recreation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
E	State Endangered
EBRPD	East Bay Regional Park District
EDR	Environmental Data Resources, Inc.
EIR	Environmental Impact Report
EMF	electric and magnetic fields
EPA	U.S. Environmental Protection Agency
ESA	federal Endangered Species Act
ESJGA	Eastern San Joaquin Groundwater Authority
FAA	Federal Aviation Administration
Far Western	Far Western Anthropological Research Group, Inc.
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FHWA	Federal Highway Administration
FHSZ	fire hazard severity zone
FIA	fire index area
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping & Monitoring Program
FOCA	Swiss Federal Office of Civil Aviation
FP	Fully Protected Species

FPI	Fire Potential Index
fps	foot (feet) per second
FRA	federal responsibility area
FTA	Federal Transit Administration
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GC	Government Code
GCC	grid control center
GEO	geology and soils
GHG	greenhouse gas
GIS	geographic information system
GO	General Order
GO 95	CPUC General Order No. 95
GO 131-D	CPUC General Order No. 131-D
GO 165	CPUC General Order No. 165
GWP	global warming potential
H	height
HAP	hazardous air pollutant
HAZ	hazards, hazardous materials, and public safety
HCP	Habitat Conservation Plan
HDD	horizontal directional drilling
HEPA	high-efficiency particulate air
HFTD	high fire threat district
HMBP	Hazardous Materials Business Plan
HRA	health risk assessment
HSAA	Hazardous Substance Account Act
HVAC	heating, ventilation, and air conditioning
HWCL	Hazardous Waste Control Law
HYD	hydrology and water quality
I	Interstate
IEEE	Institute of Electrical and Electronics Engineers
ISR	Indirect Source Review

Jacobs	Jacobs Engineering Group Inc.
kAIC	kilo ampere interrupting capacity
kcmil	thousands of circular mils
kg	kilogram(s)
KOP	Key Observation Point
kV	kilovolt(s)
kVA	kilovolt-ampere(s)
kW	kilowatt
kWh	kilowatt hours
L	length
L_{dn}	day-night sound level
L_{eq}	equivalent sound pressure level, time-averaged sound level
L_{max}	highest sound level measured during a single noise event
LAN	land use and planning
lbs	pounds, unit of weight
LEC	Lodi Energy Center
LEU	Lodi Electric Utility
Ln	Lane
LRA	local responsibility area
LOS	Level of Service
LTC	load tap changer
LZ	landing zone
m^3	cubic meter(s)
MBTA	Migratory Bird Treaty Act
MGCC	minimum ground conductor clearance
mi	mile
MLD	Most Likely Descendant
mph	mile(s) per hour
MRZ	mineral resource zone
MS4	municipal separate storm sewer system
MT	metric ton(s)

MVA	megavolt ampere(s)
MW	megawatt(s)
N_2O	nitrous oxide
n/a	not applicable
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCCP	Natural Communities Conservation Plan
NCEI	National Centers for Environmental Information
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NCPA	Northern California Power Association
NCR	Natural and Cultural Resources
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NESC	National Electric Safety Code
NESHAP	National Emission Standards for Hazardous Air Pollutants
n.d.	no date
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NMFS	National Marine Fisheries Service
NO_2	nitrogen dioxide
NO_X	oxides of nitrogen
NOAA	National Oceanic and Atmospheric Administration
NOI	noise
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSJWCD	North San Joaquin Water Conservation District
NWCG	National Wildfire Coordinating Group
NWS	National Weather Service

O_3	ozone
O&M	operations and maintenance
OEHHA	Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services
OHP	Office of Historic Preservation
OHWM	ordinary high water mark
OPGW	optical fiber ground wire
OPLA	Omnibus Public Lands Act
OSHA	U.S. Occupational Safety and Health Administration
PAL	paleontological resources
PEA	Proponent's Environmental Assessment
PG&E	Pacific Gas and Electric Company
Phase I ESA	Phase I Environmental Site Assessment
Ph.D.	Doctor of Philosophy
PM	particulate matter
PM_{10}	particulate matter with an aerodynamic diameter less than 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than 2.5 microns
PPE	personal protective equipment
ppm	part(s) per million (by volume)
PPV	peak particle velocity
PRC	Public Resources Code
PRP	Paleontological Resources Preservation
project	Northern San Joaquin 230 kV Transmission Project
PSPS	Public Safety Power Shutoff
PVC	polyvinyl chloride
Qha	Alluvium
Qm1	Modesto Formation
Qm2	Modesto Formation
Qm2e	Modesto Formation
Qm2f	Modesto Formation
Qr1	Lower Riverbank Formation

Qr2	Lower Riverbank Formation
Qr2f	Middle Riverbank Formation
Qr3	Upper Riverbank Formation
Qr3f	Upper Riverbank Formation
Qt1	Turlock Lake Formation
Qu	Alluvium/Colluvium
RCRA	Resource Conservation and Recovery Act
Rd	Road
ROG	reactive organic gases
ROW	right-of-way
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCADA	supervisory control and data acquisition
SCAQMD	South Coast Air Quality Management District
SDS	Safety Data Sheet
SF_6	sulfur hexafluoride
SFHA	special flood hazard area
SGMA	Sustainable Groundwater Management Act
SIP	State Implementation Plan
SJ&SNR	San Joaquin and Sierra Nevada Railroad
SJCEHD	San Joaquin County Environmental Health Department
SJCOG	San Joaquin Council of Governments
SJCSO	San Joaquin County Sheriff's Office
SJC GIS	San Joaquin County Geographic Information Systems
SJMSCP	San Joaquin County Multi-species Habitat Conservation and Open Space Plan
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLF	Sacred Lands File
SO_2	sulfur dioxide
SPCC Plan	Spill Prevention, Control, and Countermeasure Plan
SR	State Route
SRA	State Responsibility Area

SSC	Species of Special Concern
SSVT	station service voltage transformer
St	Street
STAA	Surface Transportation Assistance Act
SW STA	switching station
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
T	Federally Threatened or State Threatened
Tl	Laguna Formation
TCR	Tribal cultural resources
TMP	Traffic Management Plan
TPP	transmission planning process
TRA	transportation
TSP	tubular steel pole
UCMP	University of California at Berkeley Museum of Paleontology
UPRR	Union Pacific Railroad
USA	Underground Service Alert
USACE	U.S. Army Corps of Engineers
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
UWMP	Urban Water Management Plan
V	volt
VELB	valley elderberry longhorn beetle
VMT	vehicle miles traveled
W	width
WEAP	worker environmental awareness training program
WECC	Western Electricity Coordinating Council
WID	Woodbridge Irrigation District
WFR	wildfire
WMP	Wildfire Management Plan
WUI	Wildland Urban Interface

yd^3	cubic yard(s)

1 Executive Summary

In accordance with the California Public Utilities Commission (CPUC) General Order (GO) 131-D, this Proponent's Environmental Assessment (PEA) has been prepared by Pacific Gas and Electric Company (PG&E) to support the application for a Certificate of Public Convenience and Necessity (CPCN) for the Northern San Joaquin 230 Kilovolt (kV) Transmission Project (project).

1.1 Proposed Project Summary

The Northern San Joaquin 230 kV Transmission Project will provide a new 230 kV transmission system in northern San Joaquin County, in central California. The project will loop the PG&E existing overhead Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation and install a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and a new PG&E switching station (PG&E Thurman Switching Station) at the City of Lodi's Lodi Electric Utility's (LEU) existing Fred M. Reid Industrial Substation (Industrial Substation) in Lodi, California. LEU will construct LEU Guild Substation, a new 230/60 kV substation, between the existing LEU Industrial Substation and the new PG&E Thurman Switching Station. At LEU Guild Substation, the new PG&E 230 kV transmission line will terminate and LEU transformers will step down the power to 60 kV to connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured within existing alignments, including disconnecting as a source to LEU at LEU Industrial Substation. Existing LEU and PG&E 12 kV service/feeder lines and a third-party telecommunication line within the City of Lodi will be modified during construction to allow reuse of an existing alignment, continuation of existing service, and construction new permanent secondary station service.

The project will be located within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (refer to Figure 3.1-1). Northeastern San Joaquin County is predominantly agricultural land use with retail wineries, rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

PG&E will perform proposed project-related work to update the system protection scheme at four remote-end PG&E substations (Bellota, Brighton, Lodi, and Rio Oso), which are located in Linden, Sacramento, Lodi, and Rio Oso, California, respectively. PG&E project-related telecommunication work will include work at the existing PG&E Clayton Hill Repeater Station (communication tower) in Contra Costa County to create a new digital microwave path allowing redundant communication into PG&E Thurman Switching Station in support of PG&E's system protection scheme.

The purpose of PG&E's Northern San Joaquin 230 kV Transmission Project is to address reliability and capacity issues identified by the California Independent System Operator (CAISO) on the existing PG&E 230 kV and 60 kV systems serving the area between PG&E Lockeford and PG&E Lodi substations (Lockeford/Lodi, or 230/60 kV system) in northern San Joaquin County (Northern San Joaquin area). PG&E currently implements operational procedures to temporarily address the potential for 60 kV systemwide outages during peak loading conditions over approximately 165 megawatts (MW) of load. This temporary operational procedure draws from a single strong PG&E 230 kV source and can serve up to approximately 180 MW of load. If the 60 kV system load exceeds 180 MW, or if the single PG&E 230 kV line has an issue and cannot provide transmission, then the area's power load needs are not met.

The Northern San Joaquin area is forecasted to continue to grow its power load requirements. The PG&E 230/60 kV system's current normal load serving capability of approximately 194 MW under normal operating conditions is expected to be increasingly exceeded and the temporary mitigating operational procedures will not be a solution with forecasted power load increases. Power load needs to be shifted from the PG&E 60 kV lines to another source to accommodate the area's forecasted power load. The project will shift approximately 148 MW of load to a new PG&E 230 kV source. Adding this new PG&E 230 kV source to the area will result in increased 230/60 kV system reliability and an expected normal

load serving capability of approximately 404 MW under normal operating conditions that will accommodate the forecasted power demand from agricultural, industrial and residential growth in northern San Joaquin County.

The basic objective of the project is:

- Address voltage issues and thermal overloads on PG&E's Lockeford/Lodi system during normal operation (Category P0) and during Category P1 and P6 contingency scenarios with a 230 kV reinforcement and substation, as identified by the CAISO in its 2017-2018 Transmission Plan.
- More specifically, the objectives of the proposed project are to:
- Meet PG&E's legal obligation to implement the CAISO-approved project.
- Improve system reliability for PG&E's approximately 10,000 electrical customers, one of which is Lodi Electric Utility, which itself serves approximately 27,750 customers.
- Increase capacity to accommodate projected growth in demand and minimize future reliability issues.
- Address thermal overloads and voltage concerns on PG&E's 60 kV transmission system identified during P1 contingencies and maintain compliance with North American Electric Reliability Corporation (NERC) standards.
- Address thermal overloads on PG&E's 60 kV transmission system identified during P6 contingencies and maintain compliance with NERC standards.
- Reinforce the PG&E 60 kV system in the Lodi area by constructing a new 230 kV double-circuit line to provide an additional source of power.
- Construct a new 230 kV switching station to receive the new 230 kV double-circuit line and provide power to a new 230/60 kV substation to be constructed by LEU.
- Separate PG&E's 60 kV system at the LEU Industrial Substation from LEU's 60 kV system.
- Construct a safe, economical, and technically feasible project that minimizes environmental and community impacts.

1.2 Land Ownership and Right-of-Way Requirements

Project components include existing facilities within existing PG&E or LEU land ownership, right-of-way (ROW), and easements, some of which may be modified to accommodate new project components. New project components will include land acquisition, new ROW, and permanent and temporary construction easements. PG&E would acquire land from the City of Lodi for the new PG&E Thurman Switching Station. Otherwise, all PG&E substation and repeater station work would occur within existing PG&E property owned in fee. PG&E would establish permanent and temporary construction easements, use franchise rights, or seek encroachment permits or easements for construction and operation of its new and existing electrical facilities associated with the project. LEU's project-related activities would occur on City of Lodi property, city streets, or on LEU customer property.

Land rights issues are not part of this regulatory proceeding in which the CPUC is considering whether to grant or deny PG&E's application for a CPCN to upgrade existing electrical facilities. Rather, any land rights issues will be resolved in subsequent negotiations and/or condemnation proceedings in the proper jurisdiction, following the decision by the CPUC on PG&E's application (for example, refer to the Jefferson-Martin 230 kV Transmission Project, A.02-04-043, D.04-08-046, p. 85).

A list of parcels within 300 feet of the project including the Assessor's Parcel Number, mailing address, and the parcel's physical address will be provided when the PEA is filed with the CPCN Application. Refer to Appendix 1A.

1.3 Areas of Controversy

There are no known areas of controversy, and no major issues that must be resolved related to the project. PG&E considered public input and preferences during project development. Routing alternatives described in Chapter 4 reflect public preference to reuse existing alignments where feasible, reduce potential agricultural impacts by aligning with the edge of fields where feasible, and achieve set back from major throughfares and wineries while avoiding population centers. Route and project alternatives developed with public information include: the proposed project route, Central Route Alternative, Northern Route Alternative, Southern Route East, Victor Road/SR 12 Route, East Kettleman Lane Route, use existing 60 kV ROW, 60 kV reconductoring, upgrading existing PG&E 60 kV lines to 115 kV, undergrounding the new transmission lines, and paralleling other roads and linear alignments.

1.4 Summary of Impacts

Project impacts are primarily construction related and the project has been planned and engineered to avoid or minimize the largely temporary environmental impacts. Based on the analysis presented in Chapter 5, Environmental Analysis, the project is not expected to result in significant and unavoidable impacts. Applicant-proposed measures (APMs) proposed by PG&E and best management practices (BMPs) proposed by LEU are considered part of the proposed project and include project design features, standard practices, and regulatory requirements. APMs and BMPs will be implemented to further avoid or minimize impacts on environmental resources, ensuring that any remaining impacts will be less than significant. These APMs and BMPs are identified in the respective resource sections within Chapter 5 and are summarized in Chapter 3, Project Description, Table 3.11-1.

1.5 Summary of Alternatives

PG&E screened the potential alternatives based on three criteria: (1) does the alternative meet most basic project objectives, (2) is the alternative feasible, and (3) does the alternative avoid or substantially lessen any significant environmental effects of the proposed project (including consideration of whether the alternative itself could create significant environmental effects potentially greater than those of the proposed project). PG&E considered the no-project alternative and 13 alternatives (system, siting [or routing], energy storage, and demand response). PG&E compared the alternatives with the project purpose, project objectives, feasibility criteria (consideration of schedule, economic, environmental, legal, social, and technological factors), and the environmental criterion (reduction of potentially significant environmental impacts). PG&E obtained input on potential project alternatives and routing alternatives from community and agency stakeholder information, and project planners and engineers.

After screening the list of 13 potential alternatives for feasibility and support for project objectives, PG&E identified 3 alternatives, in addition to the no-project alternative, that were carried forward for consideration in this PEA. The alternatives are described in detail in Section 4.2.2 and are summarized as follows:

- *Central Route Alternative*. The Central Route Alternative would route the western portion of the new 230 kV line to the north of the proposed project between PG&E Lockeford Substation and LEU Industrial Substation. It would parallel portions of the existing PG&E Lockeford-Industrial 60 kV Line. For the eastern segment between PG&E Lockeford Substation and PG&E Brighton-Bellota 230 kV Line, this alternative would parallel the existing PG&E Lockeford-Bellota 230 kV Line, the same eastern alignment as the project. The total length of new PG&E 230 kV transmission lines would be approximately 10.04 miles. All other components of this alternative would be the same as the project, including the PG&E Thurman Switching Station, LEU Guild Substation, PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines, LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines, and PG&E 60 kV power line reconfigurations.
- *Northern Route Alternative*. The Northern Route Alternative alignment would route the western portion of the new 230 kV corridor, between PG&E Lockeford Substation and LEU Industrial

Substation, to the north of the proposed project alignment. It would parallel portions of the existing PG&E Lockeford-Industrial 60 kV Line on the western segment. Most of the eastern portion of the Northern Route Alternative 230 kV transmission line would be the same as the project. Approximately 1 mile west of PG&E Brighton-Bellota 230 kV Line (approximately 0.25 mile west of North Linn Road), the corridor would turn north and then east on East Sargent Road. The total length of new PG&E 230 kV transmission lines would be approximately 10.39 miles. All other components of this alternative would be the same as the project, including the PG&E Thurman Switching Station, LEU Guild Substation, PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines, LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines, and PG&E 60 kV power line reconfigurations.

- *Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative*. This version of the proposed project was included in the CAISO 2012-2013 Final ISO Transmission Plan (CAISO 2013). This alternative would include a 230 kV double-circuit transmission line (DCTL) from PG&E Eight Mile Substation to PG&E Lockeford Substation, construction of a new LEU 230 kV bus at LEU Industrial Substation and looping one of the new PG&E Eight Mile-Lockeford 230 kV lines into this bus from an adjacent new PG&E switching station. A combination of potential route options presented at the December 2016 open houses for the 2013 CAISO project is used as the alternative's centerline for comparison purposes. The alternative centerline avoids existing and planned land use constraints and generally is a shorter length than other potential route combinations. Combining the Southern Route Via Industrial and the Central routes to connect the end points creates a total length of new PG&E 230 kV transmission lines of approximately 19.85 miles. Components of this alternative would include construction of a new PG&E Thurman Switching Station and LEU Guild Substation; construction of a new 230 kV DCTL between PG&E Eight Mile Substation and PG&E Lockeford Substation with a loop into PG&E Thurman Switching Station; expansion of PG&E Eight Mile Substation by approximately 3.38 acres and grade approximately 5.85 acres to connect to the new 230 kV DCTL; expansion of approximately 1.5 acres and grading to PG&E Lockeford Substation to connect to the new 230 kV DCTL; and PG&E 60 kV power line reconfigurations.

1.6 Pre-filing Consultation and Public Outreach Summary

Pre-filing consultation and public outreach has occurred with CAISO, CPUC, public agencies with jurisdiction over the project area, Native American tribes affiliated with the project area, other utility owners and operators, and the local community and public. Information received from the public and interested parties supported the development and refinement of routes. Routing alternatives within Chapter 4 reflect public preference to reuse existing alignments where feasible, reduce potential agricultural impacts by aligning with the edge of fields where feasible, and achieve set back from major throughfares and wineries while avoiding population centers.

1.7 Conclusions

This PEA describes the project and its alternatives and evaluates potential environmental impacts that could result from construction or operation and maintenance of the project. Potential impacts on environmental resources are expected to be avoided or be less than significant. APMs and BMPs will be implemented to further avoid or minimize potential less-than-significant impacts on environmental resources.

1.8 Remaining Issues

There are no known major issues that remain to be resolved related to the project.

2 Introduction

This chapter introduces background information for the Northern San Joaquin 230 Kilovolt (kV) Transmission Project (project), including the project purpose and need, project objectives, and project applicant and a participating utility. Following the project background is a description of the project's pre-filing consultation and public outreach. This chapter concludes with an explanation of the expected environmental review process and a summarized list of the document's contents and organization.

2.1 Project Background

The electricity industry includes utilities, private power plant owners, and state and federal agencies, each playing a distinct role. The California Independent System Operator (CAISO), a nonprofit public benefit corporation, is charged with ensuring the safe and reliable transportation of electricity on the power grid serving 80% of California and a small part of Nevada. As the impartial grid operator, CAISO has no financial interest in any individual segment, ensuring fair and transparent access to the transmission network and market transactions. CAISO conducts an annual transmission planning process (TPP) that uses engineering tools to identify any grid expansions necessary to maintain reliability, lower costs, or meet future infrastructure needs based on public policies. CAISO engineers design, run, and analyze complex formulas and models that simulate grid use under wide-ranging scenarios, such as high-demand days coupled with wildfires. CAISO TPP includes evaluating proposals submitted for study into the interconnection queue to determine viability and impact to the grid (CAISO 2022).

2.1.1 CAISO Project Development

CAISO refers to the project as Lockeford-Lodi Area 230 kV Development in its transmission planning documents. An annual CAISO TPP beginning in 2012 identified system reliability issues that did not meet certain thermal and voltage performance requirements established by the North American Electric Reliability Corporation (NERC)[1].

In the CAISO 2012-2013 TPP assessment, five Pacific Gas and Electric Company (PG&E) 60 kV lines between PG&E Lockeford and PG&E Lodi substations (Lockeford/Lodi, or 230/60 kV system) in northern San Joaquin County (Northern San Joaquin area) were identified as having existing overload and high voltage deviation. These reliability issues did not meet certain thermal and voltage performance requirements established by NERC. To address the reliability issues, CAISO selected one of the proposals submitted through CAISO's 2012 proposal request window. The selected solution submitted by the City of Lodi suggested a 230 kV reinforcement for the 230/60 kV system (CAISO 2013a).

CAISO's 2017-2018 planning cycle continued a reassessment of projects approved in previous transmission planning cycles. CAISO reevaluated the need for a 230 kV reinforcement project based on the latest system planning assumptions, which had changed since the 2012-2013 TPP because of gridwide evolving load forecasts and distributed energy resource growth scenarios. Again, CAISO conducted a reliability assessment on the 230/60 kV system in the Northern San Joaquin area, studying normal system and various outage conditions for peak loading over a 10-year planning horizon. The CAISO reliability assessment identified thermal overload and voltage issues resulting from NERC Category P1[2] contingencies on the PG&E 230/60 kV systems between PG&E Lockeford and Lodi Electric Utility (LEU) Industrial substations (CAISO 2018a). Additional CAISO assessment identified several NERC Category P6[3] outage scenarios that could result in thermal overloads on the 60 kV power lines in the Northern San Joaquin area (CAISO 2018b). CAISO identified Category P6 outages causing thermal

[1] NERC's transmission system planning performance requirements for normal system operation include assessment and planning for events that could impact a system's stability and service.
[2] A single outage, or a NERC Category P1 contingency, is defined as the loss of a generator, the loss of one transmission circuit, the loss of one transformer, the loss of one shunt device, or the loss of a single pole of direct current lines (NERC 2014).
[3] NERC Category P6 contingency, or outage, is defined as two overlapping single outages (transmission circuit, transformer, shunt device, or single pole of a direct current line) (NERC 2014).

overloads involving an outage of two of the five PG&E 60 kV power lines in its reliability assessment. While P6 is not required to be addressed by CAISO at this time, the project will address the thermal overloads identified by the P6 outage scenarios. CAISO's 2017-2018 TPP assessment showed that if the recorded 2017 peak load for LEU was modeled in its study, overloads for P1 outages would have been identified on the PG&E 60 kV lines between PG&E Lockeford Substation and LEU Industrial Substation (CAISO 2018b). After 2018, CAISO identified Category P1 outages on the PG&E 60 kV lines in the Northern San Joaquin area as peak loads has increased annually.

The LEU electric customers comprise the majority of the load in the area. In addition to LEU's three connections to PG&E's 60 kV system (PG&E Lockeford-Industrial, PG&E Lodi-Industrial, and PG&E Industrial Tap 60 kV lines), local generation can be dispatched under emergency conditions from the Northern California Power Agency (NCPA) 25 megawatt (MW) Lodi Combustion Turbine (Lodi CT, or Lodi CT1) within the City of Lodi through its connection at LEU Industrial Substation (CAISO 2018b). According to the CAISO 2017-2018 TPP Stakeholder Comment submissions, NCPA and the City of Lodi have indicated that Lodi CT should not be relied upon for load support[4]. CAISO indicated that Lodi CT was modeled as offline in the study cases in its response to the stakeholder comments (CAISO 2018e).

In its final 2017-2018 Transmission Plan (CAISO 2018a), CAISO reaffirmed the need for a 230 kV reinforcement for the area to address reliability and forecasted capacity increases and approved a revised scope for the project that refined the original project components. The current proposed project is the solution identified in CAISO's 2017-2018 Final Transmission Plan (CAISO 2018a).

CAISO Revised Scope:

- Loop Brighton-Bellota 230 kV line into the Lockeford Substation.
- A double-circuit 230 kV line from Lockeford to a new Industrial 230 kV switching station.
- 2017-2018 TPP estimated cost: $89 million.

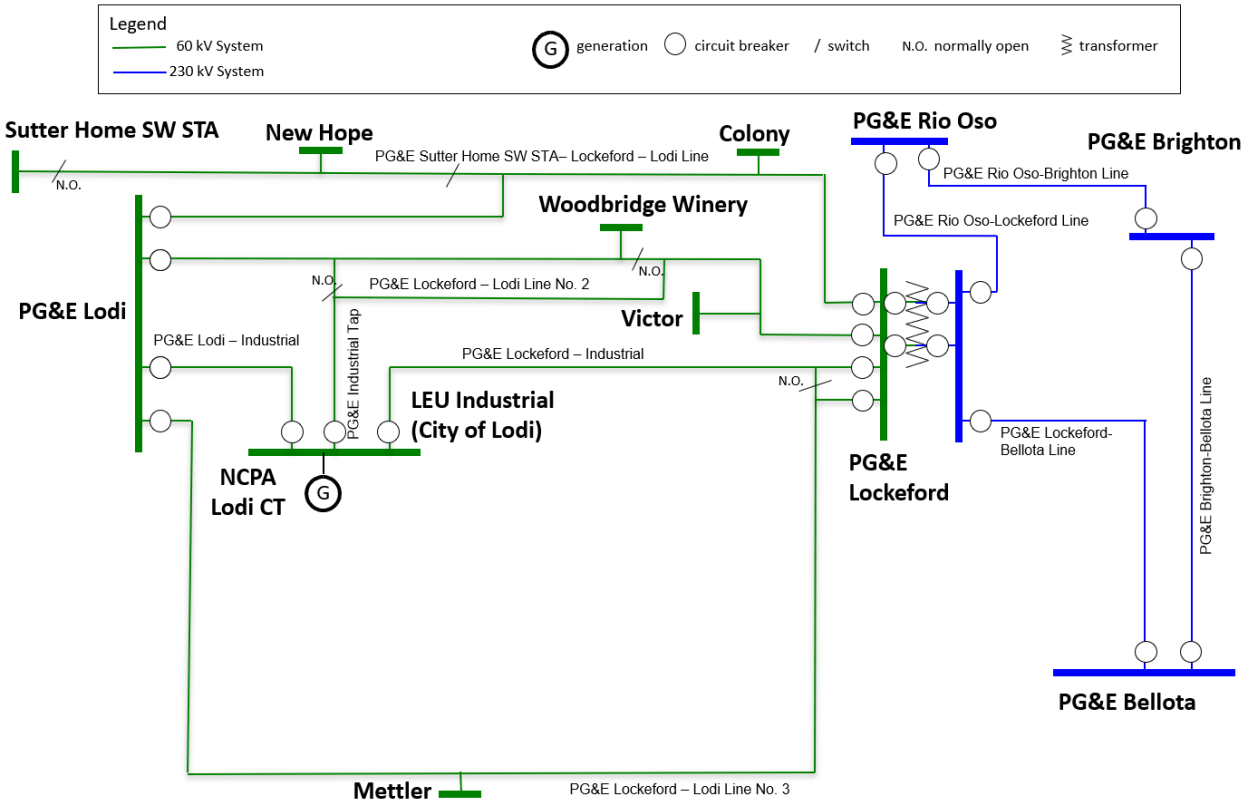
The original project was approved and assigned to PG&E consistent with the CAISO's tariff at the time. Changes related to the Federal Energy Regulatory Commission (FERC) Order 1000 came into effect after the project was originally approved. FERC Order 1000 removed of the right of first refusal from regional tariffs, where historically, incumbent transmission providers had been given a preference on transmission projects in their existing territories. CAISO administers the FERC Order 1000 competitive bid process for transmission projects installing new infrastructure. Since the need and the revised CAISO scope were not materially different as compared to the original project, CAISO stated that the revised scope was not eligible for competitive solicitation (CAISO 2018e).

2.1.2 Existing System and Service Area

PG&E customers in the Northern San Joaquin area are served by PG&E Lockeford Substation, which receives its power for its Lockeford-Lodi 60 kV line system from two PG&E 230 kV transmission lines. Refer to Figure 2.1-1. One 230 kV transmission line, PG&E Rio Oso-Lockeford, comes from PG&E Rio Oso Substation, which is 60 miles away from PG&E Lockeford Substation, and the other 230 kV transmission line, PG&E Lockeford-Bellota, comes from PG&E Bellota Substation, which is 11 miles away. The 230 kV transmission is stepped down to 60 kV through two 230/60 kV transformers at PG&E Lockeford Substation. PG&E's 60 kV system is capable of delivering up to 194 MW of power to the Northern San Joaquin area under normal conditions.

[4] Although the Lodi CT is listed as a Generating Plant in the TPP Study Plan, this plant was commissioned in 1986 and will be 40 years old during this TPP planning period. This plant is located on the load side of the Industrial bus and should not be considered as load support for the City of Lodi or the surrounding area. The 10-year peak load forecast for the Industrial bus, as submitted by NCPA on behalf of the City of Lodi, is flat for the planning period of this TPP and does not reflect recent economic developments in the area spurred on by the growing wine industry in the region. The revised 10-year load forecast will be made available to CAISO for further analysis of the Lockeford-Lodi Area 230 kV Development [CAISO 2018c and CAISO 2018d].

Figure 2.1-1. Existing System Single Line Diagram



PG&E's 60 kV system consists of five lines[5] delivering power to the Northern San Joaquin area: Sutter Home Switching Station (Sw Sta)-Lockeford-Lodi, Lockeford-Lodi No. 2, Lockeford-Lodi No. 3, Lockeford-Industrial, and Lodi-Industrial lines. The first three listed 60 kV lines start at PG&E Lockeford Substation and travel westward to PG&E Lodi Substation. In similar west-east configurations, PG&E Lockeford-Industrial 60 kV Line and Lodi-Industrial 60 kV Line both connect PG&E Lockeford and PG&E Lodi substations to LEU Industrial Substation. A third connection to LEU Industrial Substation comes from PG&E Industrial Tap 60 kV Line, which is an extension of PG&E Lockeford-Lodi No. 2 60 kV Line.

The project's service area is within northern San Joaquin County and includes approximately 37,750 PG&E and LEU electrical customers in the communities of Stockton, Lodi, Lockeford, Victor, Acampo, and Thornton. The City of Lodi and its LEU is one of PG&E's approximately 10,000 customers in the service area. LEU serves approximately 27,750 electrical customers within the City of Lodi (City of Lodi 2023).

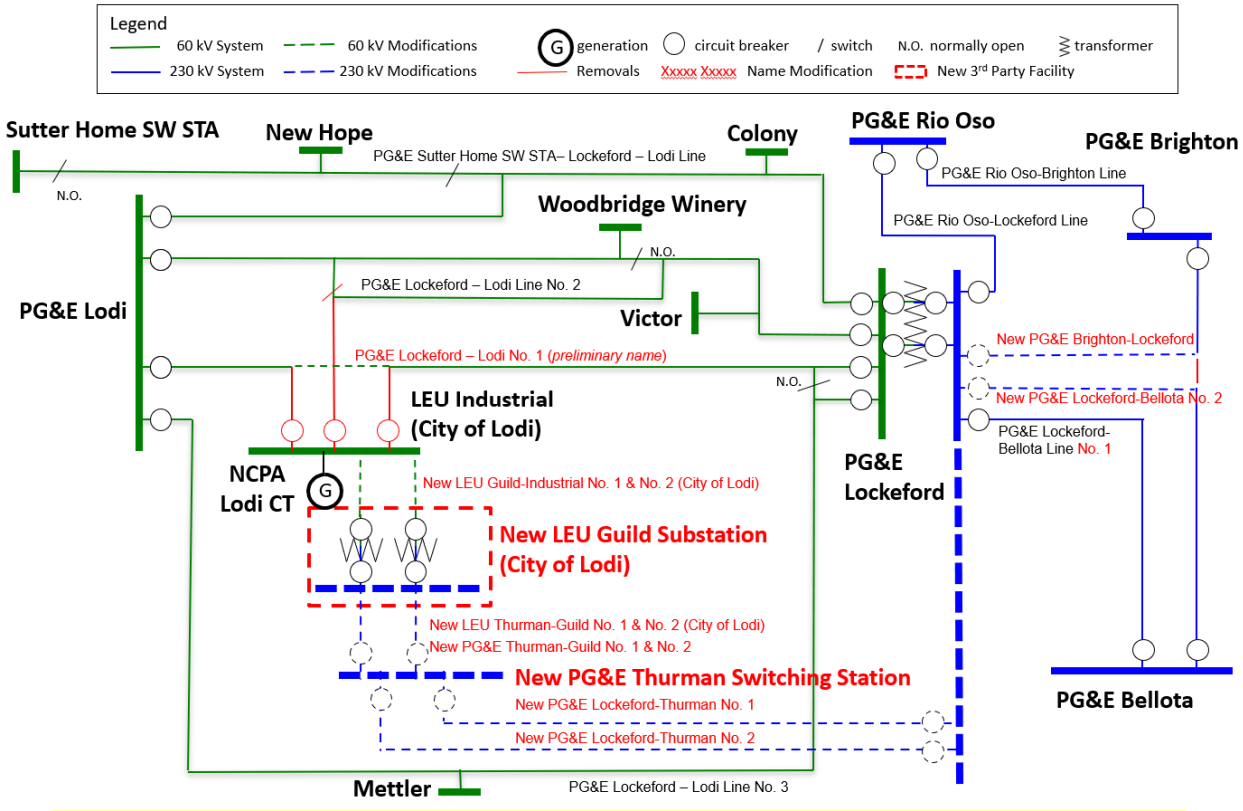
2.1.3 Proposed System and Service Area

Consistent with the CAISO scope, PG&E's proposed project scope would loop PG&E Brighton-Bellota 230 kV Line through PG&E Lockeford Substation and construct a new double-circuit 230 kV line through the new PG&E Thurman Switching Station at LEU Industrial Substation. The PG&E 230 kV scope includes the expansion of PG&E Lockeford Substation to accommodate the new 230 kV lines. LEU's connected action includes a new LEU 230/60 kV Guild Substation to receive the new 230 kV source from the new PG&E Thurman Switching Station. LEU Guild Substation will step down the new 230 kV source to 60 kV and connect to a modified LEU Industrial Substation. Refer to Figure 2.1-2.

[5] PG&E Sutter Home Sw Sta-Lockeford-Lodi and PG&E Lockeford-Lodi No. 3 lines will not be modified as part of the project. However, they are part of the PG&E 60 kV system delivering power and are affected by the reliability issues that the project will solve.

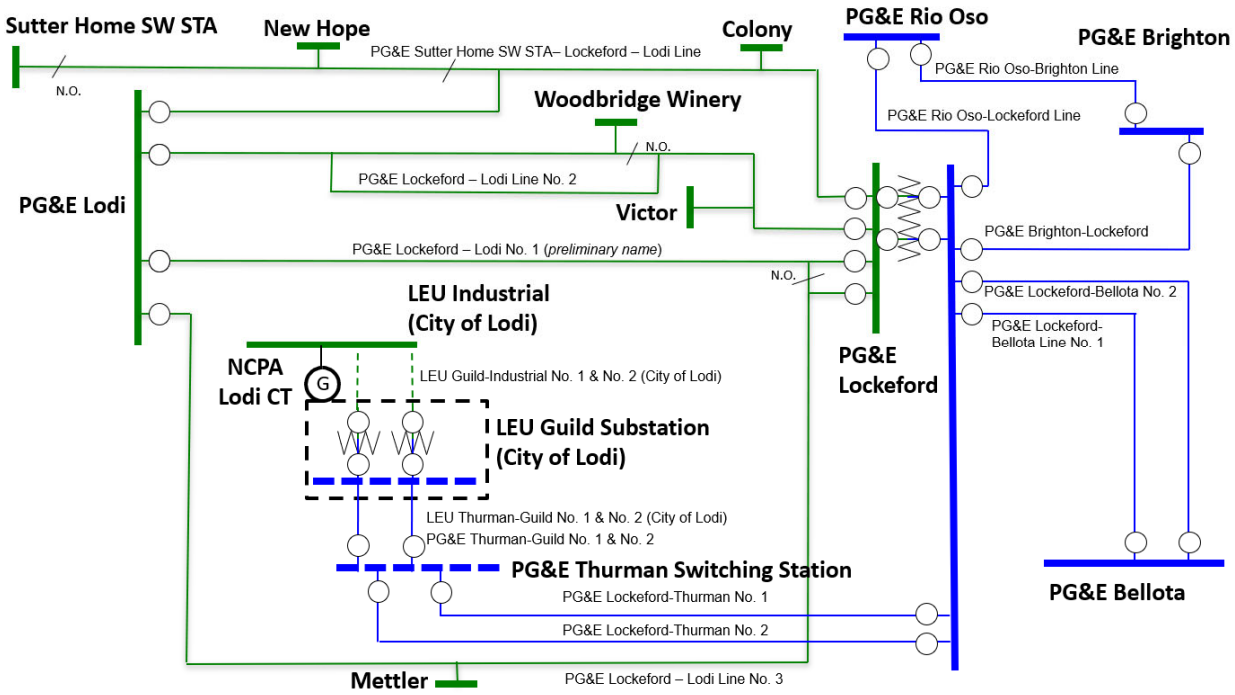
The three existing PG&E 60 kV lines currently connected to LEU Industrial Substation would be disconnected from LEU Industrial Substation as part of the project. PG&E Lodi-Industrial, PG&E Industrial Tap, and PG&E Lockeford-Industrial 60 kV lines would be reconfigured outside of LEU Industrial Substation when the new 230 kV source is in service.

Figure 2.1-2. Proposed System Changes Single Line Diagram



With the completion of the project, PG&E will no longer have a 60 kV connection with the City of Lodi through LEU Industrial Substation. At the completion of the project, the reconfigured PG&E 60 kV lines between PG&E Lockeford and PG&E Lodi substations will serve the PG&E 60 kV system as PG&E Lodi-Lockeford No. 1 60 kV Line (preliminary name). The reconfigured PG&E 60 kV line will have increased capacity, allowing more reliable service to the PG&E 60 kV network in northern San Joaquin County. The project's service area will not change with the implementation of the project. The proposed project at completion is shown on Figure 2.1-3.

Figure 2.1-3. Proposed System at Project Completion Single Line Diagram



2.1.4 Project Purpose and Need

Energy demand in the Northern San Joaquin area is increasing steadily with residential development as well as agricultural and industrial growth. The peak amount of electrical service, or load served, in the area has exceeded the capacity of the existing system during normal operation and under various outage conditions. When the system load exceeds capacity, voltage and thermal issues may arise that can impair the reliability of the system, which is happening on the existing PG&E 230/60 kV system in the Northern San Joaquin area. To accommodate existing and forecasted growth in electrical needs beyond the existing capacity, the system needs to shift load to improve system reliability. The project will shift load from the 60 kV system to a new 230 kV source identified as the solution by CAISO. CAISO concluded in its 2017-2018 Transmission Plan that this project would address reliability, thermal overload, and voltage issues on the 60 kV network between PG&E Lockeford and PG&E Lodi substations and the 230 kV system serving the area (CAISO 2018a).

2.1.4.1 Existing System Load Serving Capability

The current PG&E Lockeford-Lodi system has a load serving capability[6] of approximately 194 MW under normal operating condition, and an emergency load serving capability of approximately 152 MW under a modeled NERC Category P1[7] contingency.

Under peak loading conditions (more than approximately 165 MW of load), an outage of PG&E Lockeford-Bellota 230 kV Line[8] would result in significant voltage deviation and low voltages on PG&E Lockeford Substation 230 kV and 60 kV systems, which could lead to a systemwide outage in the Northern

[6] These load serving capability amounts were modeled most recently by PG&E in November 2022 using the line 2 fps emergency rating wherever it applied. The NCPA generation (Lodi CT, combustion turbine in the City of Lodi) was offline in the model, consistent the CAISO TPP 2017-2018 modeling.
[7] A single outage, or a NERC Category P1 contingency, is defined as the loss of a generator, the loss of one transmission circuit, the loss of one transformer, the loss of one shunt device, or the loss of a single pole of direct current lines (NERC 2014).
[8] A NERC Category P1 contingency

San Joaquin area for the approximately 37,750 electrical customers. The PG&E temporary operational procedure is to operate only the stronger transmission source – the shorter 11-mile PG&E Lockeford-Bellota 230 kV Line – serving PG&E Lockeford Substation. Currently, during peak loading conditions, PG&E open-ends the longer 60-mile PG&E Rio Oso-Lockeford 230 kV Line, effectively taking the line out of service to PG&E Lockeford Substation temporarily. This temporary operational procedure addresses voltage issues, allowing the existing PG&E 230/60 kV system in the Northern San Joaquin area to serve up to approximately 180 MW of load from the strong transmission source. However, this temporary operational procedure means only one 230 kV source is serving PG&E Lockeford Substation and the Northern San Joaquin area 60 kV system. Under these conditions, the reliability of the power supply for the Northern San Joaquin area is significantly reduced as it now only has a single 230 kV source. If the 60 kV system load exceeds 180 MW, or if the shorter PG&E Lockeford-Bellota 230 kV Line has an issue and cannot provide transmission, then service through the PG&E 60 kV system would be lost without the longer PG&E 230 kV line in operation. This temporary operational procedure mitigation will not be an effective solution with forecasted peak load regularly being greater than 180 MW.

2.1.4.2 System Load Forecast

LEU accounts for the majority of the load served from the PG&E 60 kV system. In 2017, LEU was approximately 80% of the peak load and NCPA forecasts that LEU will represent more than 90% of the peak load by 2025 (CAISO 2018b). Severe overload on the PG&E 60 kV lines were identified under P6 contingencies when LEU Industrial Substation's peak load was studied in 2017-2018 TPP (CAISO 2018b). Under the 2027 peak shift scenario, P1 contingency loading was at 99% and if the 2017 peak load was modeled in the studies, P1 overload would have been identified (CAISO 2018b). In 2018, LEU forecasted future growth within a few years to have a total load of approximately 200 MW (CAISO 2018b).

The Northern San Joaquin area is forecasted to grow at a rate of approximately 1.36% based on the 10-year load forecast in the 2021-2022 CAISO TPP cycle. Table 2.1-1 shows the PG&E 10-year load forecast used for the CAISO 2021-2022 TPP cycle. The forecast was used to identify overload scenarios, as discussed further in the following sections.

Table 2.1-1. 10-Year Load in Megawatts Forecast Used for the CAISO 2021-2022 TPP Cycle

Substation	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Victor (PG&E)	12.3	15.0	14.7	14.5	14.4	14.7	14.7	14.7	14.6	14.6	14.6
Lodi (PG&E)	19.6	19.3	19.1	19.0	18.9	19.3	19.5	19.6	19.7	19.8	19.9
Woodbridge Winery	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Colony (PG&E)	4.8	4.8	4.6	4.5	4.5	4.6	4.6	4.5	4.4	4.4	4.4
New Hope (PG&E)	4.7	3.9	3.7	3.6	3.6	3.7	3.6	3.6	3.5	3.5	3.5
Mettler (PG&E)	6.6	6.5	6.4	6.2	6.2	6.3	6.3	6.2	6.2	6.2	6.1
Industrial (LEU)	123.2	128.8	125.2	132.1	134.6	137.4	139.0	141.2	143.9	146.4	148.3
Total Approximate MW	176.7	183.8	179.2	185.5	187.6	191.5	193.1	195.2	197.7	200.3	202.3

Notes: Load values are shown in megawatts (MW). Source: PG&E Transmission Planning 2022

PG&E's 2022 reliability assessment, using the 2031 forecasted loads, identified overloads for Category P0[9], P1, and P6 contingencies with Lodi CT modeled offline[10]. Table 2.1-2 and Table 2.1-3 show the percent loading of the summer normal and summer emergency ratings of the 60 kV power lines for NERC P0, P1, and P6 contingency categories based on the projected load MW forecasts for year 2031 using PG&E's 2021 series base case.

PG&E and LEU operate their systems to minimize the potential for overloads. Ultimately, when other measures have been exhausted, the final remedy is to drop the load.

Table 2.1-2 shows forecasted percent loading in 2031 during normal system conditions for a single PG&E monitored facility in the far left column during P0 category contingency or no PG&E 60 kV system outage. For example, in 2031, it is forecasted that during normal system conditions, PG&E Industrial Tap would experience approximately 105.84% overload.

The 2031 forecasted percent loading of the PG&E monitored facility in the left column during a potential P1 category contingency (a single outage of PG&E monitored facility in second header row), is shown in the five right columns. For example, in 2031, it is forecasted that during a potential P1 category contingency where PG&E Lockeford-Lodi No. 3 Line experiences an outage, the PG&E Industrial Tap would have an overload of approximately 108.81%.

Table 2.1-2. Approximate Forecasted Percent Loading on PG&E's 60 kV System During NERC P0 and P1 Category Contingencies in 2031

PG&E Monitored Facility	P0	P1 Contingency					
	Normal Overload	Lodi-Industrial	Lockeford-Lodi No. 2*	Lockeford-Lodi No. 3	Lockeford-Industrial	230/60 kV TB 3	230/60 kV TB 2
Lockeford-Lodi No. 2*	105.84%	None	NA	108.81%	135.86%	None	None
Lockeford-Industrial	104.78%	108.47%	129.02%	111.02%	NA	None	None
Lockeford-Lodi No. 3	None	None	115.09%	NA	126.17%	None	None
Sutter Home SW Sta-Lockeford-Lodi	None	None	None	None	108.16%	None	None
230/60 kV TB 3	None	None	None	None	None	NA	102.19%
230/60 kV TB 2	None	None	None	None	None	101.99%	NA

Notes: *Lockeford-Lodi No. 2 includes PG&E Industrial Tap. PG&E Lockeford Substation Transformer Bank = TB, No overload forecasted for the contingency category = None, Not Applicable (compares the same monitored facility) = NA. Source: PG&E Transmission Planning 2022

Table 2.1-3 shows forecasted percent loading in 2031 during a P6 category contingency. In this scenario, the forecasted overload on one of three PG&E monitored facilities is shown when the other two PG&E monitored facilities experience an outage. For example, in 2031, it is forecasted that PG&E Industrial Tap would experience approximately 230.10% loading if both PG&E Lockeford-Industrial and PG&E Lodi-Industrial lines experienced an outage at the same time. The table presents where overloads for one of three PG&E monitored facilities would occur. Combinations of PG&E monitored facilities without forecasted overloads are not shown.

[9] NERC Category P0 is defined as the normal system condition without any outages on the system (NERC 2014).
[10] Lodi CT is identified in PG&E operating procedures as one of the immediate mitigation measures to support the area in the event of an outage. The absence of Lodi CT increases the likelihood of requiring customers to be deenergized to address potential thermal overloads and voltage concerns on the PG&E 60 kV and 230 kV systems. As of July 28, 2022, NCPA communicated to PG&E that NCPA plans to operate Lodi CT with no end of service date in mind.

The project will shift approximately 148 MW of load (2021 series base case forecasted 2031 peak load) from the 60 kV system to a new 230 kV source.

Based on current PG&E and LEU load forecasts in Table 2.2-1 for LEU Industrial Substation without Lodi CT, thermal overloads will increase in magnitude for the existing NERC Category P6 violations and will eventually occur for NERC Category P1 outages, or single-element outages. Although addressing P6 outages is not mandated, it would create a stronger, more-robust network and support prudent planning.

Table 2.1-3. Approximate Percent Loading on PG&E's 60 kV Network During NERC P6 Category Contingencies

	P6 Contingency			
	Lockeford-Industrial			
PG&E Monitored Facility	Lodi-Industrial	Lockeford-Lodi No. 2b	230/60 kV TB 2	230/60 kV TB 3
Lockeford-Lodi No. 2[a]	230.10%	134.80%	None	None
Sutter Home SW Sta-Lockeford-Lodi	None	106.80%	109.70%	109.40%
Lockeford-Lodi No. 3	None	124.20%	None	None
230/60 kV TB 3	None	None	104.60%	NA
230/60 kV TB 2	None	None	NA	104.20%
	Lockeford-Lodi No. 2*			
PG&E Monitored Facility	Lockeford-Industrial	Lodi-Industrial	Lockeford-Lodi No. 2a	Lockeford-Lodi No.3
Lockeford-Industrial	NA	203.70%	125.20%	186.20%
Lodi-Industrial	228.30%	NA	None	None
Sutter Home SW Sta-Lockeford-Lodi	224.20%	None	None	149.30%
Lockeford-Lodi No. 3	271.30%	None	111.10%	NA
	Sutter Home SW Sta-Lockeford-Lodi			
PG&E Monitored Facility	Lockeford-Industrial	Lockeford-Lodi No. 2a	Lockeford-Lodi No. 3	
Lockeford-Lodi No. 2[a]	159.20%	NA	123.30%	
Lockeford-Industrial	NA	148.10%	127.90%	
Lockeford-Lodi No. 3	154.60%	135.90%	NA	
	Lockeford-Lodi No. 3			
PG&E Monitored Facility	Lockeford-Industrial	Lockeford-Lodi No. 2[a]	Lodi-Industrial	
Lockeford-Lodi No. 2[a]	202.10%	105.90%	None	
Lockeford-Industrial	NA	107.60%	None	
Sutter Home SW Sta-Lockeford-Lodi	173.80%	None	101.70%	

Notes:

[a]Lockeford-Lodi No. 2 (Lodi to Woodbridge Winery section) includes Industrial Tap. PG&E Lockeford Substation Transformer Bank = TB, No overload forecasted for the contingency category = None, Not Applicable (compares the same monitored facility) = NA.
Source: PG&E Transmission Planning 2022.

After the project, the PG&E Lockeford-Lodi system will increase from its current normal Load Serving Capability of 194 MW to approximately 404 MW with the proposed 230 kV system upgrade under normal

operating condition, and from its emergency Load Serving Capability of 152 MW to approximately 456 MW under P1 contingency. It should be noted that the line 2 feet per second (fps) emergency rating has been used wherever it applies and the NCPA Lodi CT is off in the study model.

By connecting a new 230 kV source to LEU and removing LEU from its current PG&E 60 kV sources, low voltage and thermal overload issues on the PG&E 230/60 kV system would be addressed with less overall power demand on the PG&E 60 kV system. The need for the current operational procedure (open-ending PG&E Rio Oso-Lockeford) would be eliminated and capacity for peak loading would be increased when the project is complete, creating improved service reliability for the PG&E customers in the Northern San Joaquin area during current and forecasted peak loading conditions.

2.1.5 Project Objectives

Based on the project need discussed previously, PG&E identified several objectives to enable it to meet the need. The basic objective of the proposed project is to address reliability and capacity issues on the existing PG&E 230 kV and 60 kV systems serving the area between PG&E Lockeford and PG&E Lodi substations (Lockeford/Lodi, or 230/60 kV system) in northern San Joaquin County (Northern San Joaquin area). The proposed project is needed because the existing PG&E 230/60 kV system is experiencing voltage issues and thermal overloads. The Northern San Joaquin area is forecasted to continue to grow its power load requirements, which will worsen these voltage and thermal overload issues. Currently, systemwide outages could potentially occur if a second outage happened under peak loading conditions where a single outage was being addressed by open ending PG&E Rio Oso-Lockeford 230 kV Line (Category P1 voltage issues). The PG&E system is experiencing thermal overloads under P0, P1, and P6 contingencies based on the summer normal and emergency ratings of the system's 60 kV power lines, indicating insufficient system capacity for the current load. Load forecasts indicate continued growth in the area, which will increase the magnitude of the thermal overloads.

The proposed project will meet the basic objectives of the project by adding a new 230 kV double-circuit line to PG&E's 230/60 kV system. The new 230 kV source will be interconnected into the 230/60 kV system via a new 230 kV switching station constructed by PG&E that will connect to a new 230/60 kV substation constructed by LEU. With the new 230/60 kV substation in place, LEU will no longer need to be served by PG&E's existing 60 kV system and PG&E will disconnect its 60 kV system from LEU's local power grid. By bringing in a new 230 kV source and separating PG&E's and LEU's 60 kV systems, the current and projected voltage issues and thermal overloads on PG&E's 230/60 kV system will be addressed and forecasted demand growth will be accommodated.

Attainment of the project objectives is necessary because PG&E is required to comply with NERC standards and provide safe, reliable electric service to its customers. Attainment of the project objectives is also necessary because PG&E is legally obligated to implement CAISO-identified reliability improvement projects. In developing the project objectives, PG&E considered the scope of the Certificate of Public Convenience and Necessity (CPCN) application, California Environmental Quality Act (CEQA) Guidelines and PG&E's environmental commitment.

The basic objective of the project is to:

- Address voltage issues and thermal overloads on PG&E's Lockeford/Lodi system during normal operation (Category P0) and during Category P1 and P6 contingency scenarios with a 230 kV reinforcement and substation, as identified by the CAISO in its 2017-2018 Transmission Plan.

More specifically, the objectives of the proposed project are to:

- Meet PG&E's legal obligation to implement the CAISO-approved project.
- Improve system reliability for PG&E's approximately 10,000 electrical customers, one of which is Lodi Electric Utility, which itself serves approximately 27,750 customers.
- Increase capacity to accommodate projected growth in demand and minimize future reliability issues.

- Address thermal overloads and voltage concerns on PG&E's 60 kV transmission system identified during P1 contingencies and maintain compliance with NERC standards.
- Address thermal overloads on PG&E's 60 kV transmission system identified during P6 contingencies and maintain compliance with NERC standards.
- Reinforce the PG&E 60 kV system in the Lodi area by constructing a new 230 kV double-circuit line to provide an additional source of power.
- Construct a new 230 kV switching station to receive the new 230 kV double-circuit line and provide power to a new 230/60 kV substation to be constructed by LEU.
- Separate PG&E's 60 kV system at the LEU Industrial Substation from LEU's 60 kV system.
- Construct a safe, economical, and technically feasible project that minimizes environmental and community impacts.

2.1.6 Project Applicant

PG&E is the project applicant for the proposed Northern San Joaquin 230 kV Transmission Project and will modify existing PG&E facilities, and construct new PG&E facilitates, to create and operate the new 230 kV transmission source and reconfigure existing 60 kV facilities. PG&E will modify one existing substation, two existing 230 kV transmission lines, and four existing 60 kV power lines, and construct a new 230 kV transmission source and one new switching station with an extended secondary station service 12 kV line and a new microwave tower as detailed in Section 3.3.2. PG&E protection schemes will be updated at four remote-end substations and an existing remote PG&E microwave tower will be modified.

PG&E provides natural gas and electric service to approximately 16 million people throughout a 70,000-square-mile service area in northern and central California. The PG&E service area stretches from Eureka in the north to Bakersfield in the south, and from the Pacific Ocean in the west to the Sierra Nevada Range in the east. Electric interconnected transmission lines cover 8,466 circuit miles to serve 5.1 million electric customer accounts. PG&E's local electrical service area in northern San Joaquin County has approximately 10,000 customers in the communities of Stockton, Lodi, Lockeford, Victor, Acampo, and Thornton. The City of Lodi and its LEU is one of PG&E's approximately 10,000 customers in the service area.

LEU has a connected action to modify existing LEU facilities and construct new LEU facilities to connect with the new 230 kV transmission source and disconnect from the existing PG&E 60 kV lines. LEU will modify its Industrial Substation, construct a new LEU Guild Substation and new LEU transmission and power lines connecting the stations, and relocate sections of two LEU 12 kV feeder lines from LEU Industrial Substation. The utility ownership of the 230 kV lines between PG&E Thurman Switching Station and LEU Guild Substation will transition mid-span, with each utility responsible for the protection equipment within its respective station. LEU serves approximately 27,750 electrical customers within the City of Lodi. LEU is a department of the City of Lodi and is a participating utility in the project. LEU is one of 16 locally owned electric utility members of NCPA, which is a California Joint Action Agency.

2.2 Pre-filing Consultation and Public Outreach

This section describes pre-filing consultation and public outreach that has occurred for this project. Project communication includes reference to relevant outreach conducted before 2017 for the CAISO 2013 project footprint as well as for the current CAISO 2018 project.

Pre-filing consultation and public outreach has occurred with CAISO, California Public Utilities Commission (CPUC), public agencies with jurisdiction over the project area, Native American tribes affiliated with the project area, other utility owners and operators, and the local community and public.

2.2.1 California Independent System Operator

CAISO's 2012-2013 TPP assessment identified performance issues on the PG&E Lockeford/Lodi 60 kV system and approved the Lockeford-Lodi Area 230 kV Development Project in March 2013 for PG&E to execute. CAISO's 2017-2018 planning cycle continued a reassessment of projects approved in previous transmission planning cycles. In March 2018, CAISO approved a revised scope for the Lockeford-Lodi 230 kV Development Project for PG&E to execute.

2.2.2 Public Agencies with Jurisdiction over Project Areas or Resources that May Occur in the Project Area

PG&E coordinated with public agencies with jurisdiction over project areas or resources that may occur in the project area during development of the project application.

California Department of Transportation

In August 2022, the California Department of Transportation (Caltrans) replied to an inquiry from PG&E to discuss the transmission line anticipated crossing of State Route (SR) 88. Caltrans advised PG&E that it has no known projects along SR 88 that may conflict. Caltrans expects PG&E will apply for an encroachment permit as needed and any design updates needed after CPUC project approval.

California Public Utilities Commission

PG&E included the project in its quarterly presentations to the CPUC as part of its effort to present projects that were expected to be licensed under General Order 131-D (GO 131-D). The project was most recently discussed at a quarterly meeting on October 25, 2022. In March 2020, PG&E provided an overview of the project during an online meeting with the CPUC project manager and an initial project filing schedule was discussed. In January 2021 during an online meeting, PG&E provided an updated project schedule, a project description and overview figure, and a summary of information PG&E had received from coordination with local jurisdictions and public outreach. In January 2021, the CPUC inquired about whether PG&E had reviewed the feasibility of the battery energy storage alternative suggested as a solution during the CAISO 2018 TPP. Subsequently, PG&E reviewed the feasibility of a battery energy storage solution (BESS) project and a BESS hybrid project as discussed in Section 7.1. On June 24, 2021, PG&E, the CPUC, the CPUC consultant, and the City of Lodi attended a site visit to review the project end points and potential route alternatives. In December 2021, PG&E began to hold monthly pre-filing consultation meetings online with the CPUC and the CPUC consultant to discuss coordination of the CEQA review process.

Central California Traction Company

In July 2016, PG&E introduced the project to Central California Traction (CCT) Company and discussed project compatibility with the railroad alignment. CCT noted that Union Pacific Railroad (UPRR) owns the tracks on which CCC operates in and near the City of Lodi. UPRR would review any encroachment permit from PG&E. PG&E would coordinate with CCT's operation during construction occurring near or across the railroad tracks where CCT operates.

Central Valley Flood Protection Board

In August 2022, the Central Valley Flood Protection Board (CVFPB) replied to an inquiry from PG&E to discuss the transmission line anticipated crossing of CVFPB Regulated Stream and federal levees (Bear Creek and Paddy Creek). CVFPB expects PG&E will apply for encroachment permits which will require Section 408 review and advised PG&E of Title 23 standards, specifically sections 120 and 123.

City of Lodi

PG&E staff briefed City of Lodi Planning (now Community Development) and Public Works departments in 2016 and 2022 on the project and requested information on project compatibility with existing and planned land uses, zoning, and projects. No conflicts or concerns were communicated to PG&E. Discussions with LEU are summarized under Section 2.2.5.

Northern San Joaquin Water Conservation District

PG&E staff briefed the Northern San Joaquin Water Conservation District (NSJWCD) about the project in 2016. In June 2022, the NSJWCD replied to an inquiry from PG&E to discuss the transmission line potentially crossing its underground South Pipeline. NSJWCD advised PG&E that it did not see a conflict regarding an overhead transmission line potentially crossing an NSJWCD water pipeline.

San Joaquin Area Flood Control Agency

In August 2016, PG&E staff met with representatives from the San Joaquin Area Flood Control Agency and discussed channelized waterways within the study area and levee compatibility with transmission lines. Structure setback from levees (Senate Bill [SB] 5 and Title 22) were discussed.

San Joaquin Council of Governments

In 2015 and 2016, PG&E staff met with members of the San Joaquin Council of Governments (SJCOG) to introduce the 2013 project, siting and routing process, and the study area. Compatibility with infrastructure was discussed, focusing on SR 99 expansion between Harney Lane and the Mokelumne River, land use (airfields), and the County Habitat Conservation Plan. The 2018 CAISO project avoids the SR 99 expansion area and airfields, and PG&E does not plan to seek coverage under the County Habitat Conservation Plan. PG&E reviewed the SJCOG webpage listing active projects as discussed in Section 7.1.

San Joaquin County

PG&E staff briefed County Community Development and Public Works departments in 2015, 2016, and 2022 on the project and requested information on project compatibility with existing and planned land uses, zoning, and projects. In support of route compatibility, the departments noted that areas with more dense residential population should perhaps be avoided and that tubular steel poles (TSPs) would have smaller footprints that lattice steel towers. No conflicts or concerns were communicated to PG&E.

Native American Tribes Affiliated with the Project Area

PG&E contacted the California Native American Heritage Commission (NAHC) with an initial request for a search of the Sacred Lands File (SLF) for the 2013 CAISO project area on November 4, 2015. The NAHC response, dated November 25, 2015, stated that no Native American sacred sites are documented within the area of potential impact (API). The NAHC also provided a list of seven Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area. PG&E's Cultural Resource Specialist, Mike Taggart, sent initial outreach letters to the contacts listed by the NAHC in May and November of 2016. These letters included information about the proposed project and public open houses to learn more about the project and provide feedback about the potential transmission line corridors. Wilton Rancheria Tribal Resources Coordinator, Ed Silva, responded on December 6, 2016, stating that they were unable to attend the open house dates but requested a meeting with PG&E.

A meeting to discuss the project was held on January 12, 2017; attendees included two contacts from the Wilton Rancheria, Ed Silva and Cultural Resource Officer Antonio Ruiz; PG&E's Mike Taggart and Bob Donovan; and Colleen Taylor from Jacobs Engineering Group Inc. (Jacobs). The meeting reviewed project information discussed at the open houses that occurred in 2016. The tribal representatives were encouraged to identify resources to support avoiding or minimizing potential impact during the project design/development and analysis phase that year. Information was not provided for the proposed project.

On April 13, 2021, Far Western Anthropological Research Group, Inc. (Far Western), on behalf of PG&E's Cultural Resource Specialist, Starla Lane, contacted the NAHC with a new request for a current search of the SLF. The NAHC response, dated May 10, 2021, stated that no Native American sacred sites are documented within the API. The NAHC also provided a list of 18 Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area. On June 17, 2021, PG&E's Cultural Resources Specialist Starla Lane sent letters with associated project maps to the contacts listed by the NAHC to inform them of the proposed project and request input regarding tribal cultural resources and areas of cultural sensitivity. PG&E sent additional outreach letters to the 18 contacts on February 8, 2023. At the time of this report, four responses have been received from the Buena Vista Rancheria of Me-Wuk Indians, the United Auburn Indian Community of the Auburn Rancheria, Wilton Rancheria, and the Confederated Villages of Lisjan. Additionally, Buena Vista Rancheria of Me-Wuk Indians requests formal government-to-government consultation under CEQA to discuss a site visit and other measure to ensure any cultural resources are protected. PG&E provided access to cultural resource reports and GIS shapefiles to the four tribes who responded to PG&E on July 27, 2023. On August 2, 2023, the Confederated Villages of Lisjan responded with no further information about the project location. They asked to be notified if there are any findings during construction, and reminded the construction team to remain vigilant during construction since the project is on their ancestorial land and unanticipated discoveries are possible.

This correspondence timeline and responses are summarized in Table 5.5-3 and Table 5.18-1. Coordination between PG&E and the responding tribes regarding the project is currently underway and any formal comments or recommendations provided by the tribes will be addressed by PG&E cultural resources specialists. Consultation under Assembly Bill (AB) 52 will be conducted, with CPUC serving as the lead state agency.

Public Outreach and Private Landowners

PG&E held public open houses and gathered information from local community leaders, private landowners, government agencies/officials, and regional organizations. The PG&E public outreach team, and, in some cases, representatives from PG&E's environmental management team, participated in the outreach, during which they explained the project need and proposed scope and the process and timeline for implementation, and they requested information about the project's compatibility with the existing and planned land use, agricultural use, and infrastructure. The team also explained the community engagement process, upcoming opportunities for public involvement during project development, and looking to the CPUC for updates after the project application is filed. In 2015, PG&E actively began soliciting feedback from the community for the CAISO 2013 project and continued in 2018 to 2022 for the CAISO 2018 project. Outreach prior to 2017 is included in this summary where applicable to the CAISO 2018 project. For example, meetings with the City of Stockton that occurred for the CAISO 2013 project are not included.

In 2015-2016 and in 2019-2022, PG&E's outreach beyond open houses included Community Partnership for Families of San Joaquin County, Constellation Brands, d'Art Wines, El Concilio California, Harmony Wynelands Winery, Hospice of San Joaquin, Lodi Chamber of Commerce, Lodi District Grape Growers Association, Lodi Unified School District, Mettler Family Vineyards, Pacific Coast Producers, San Joaquin Farm Bureau Federation, Perlegos Family, San Joaquin Partnership, and Schaefer Systems.

PG&E sent local residents and local government officials a mailer in November 2015 inviting the public and interested parties to three open houses in the project area. PG&E invited discussion of the project study area (in support of the project as approved by CAISO in 2013) as part of obtaining information to develop project corridors. PG&E sent a project update with an open house recap in March 2016 to local residents, local government officials, and other parties who had requested project updates. PG&E invited the public and interested parties to four open houses in June 2016 to discuss project corridors (in support of the project as approved by CAISO in 2013). PG&E provided project updates in August and October 2016 recapping the June 2016 open houses and progress toward identifying potential project routes. PG&E invited the public and interested parties to three open houses in December 2016 to discuss potential project routes (in support of the project as approved by CAISO in 2013). PG&E paused work on the project

in early 2017 when CAISO announced it was reevaluating the previously approved project. After CAISO approved the revised project scope in March 2018, PG&E reset the project study area to include the revised end points and began to review potential routing for the revised scope. PG&E invited the public and interested parties to two open houses in July 2019 to discuss retained and refined project routes between PG&E Lockeford Substation and a new PG&E switching station near LEU Industrial Substation (from the CAISO 2013 project) and potential routes to east of PG&E Lockeford Substation to create the extension of PG&E Brighton-Bellota 230 kV Transmission Line into PG&E Lockeford Substation.

Information received from the public and interested parties supported the development of corridors and routes for the 2013 CAISO project as well as route refinement and route identification for the 2018 CAISO project. Community information indicated concerns around preserving key entryway aesthetics into the growing Lodi wine community, such as SR 12 between Interstate 5 and the City of Lodi, new infrastructure in rural areas and potential agritourism, aesthetics, and agricultural impacts and use of existing right-of-way (ROW). The importance of the wine community was central to many stakeholders' discussions. Some stakeholders suggested avoiding major roads altogether, noting the importance of thoroughfares for future development, agritourism use, and aesthetic value. Others suggested undergrounding, using or paralleling existing utility corridors and other linear ROW, including rebuilding or upgrading existing electrical lines. Use of TSPs generally was seen as more aesthetically appealing than lattice steel towers. Use of TSP structures was seen as more compatible than either towers or undergrounding through lands with agricultural use.

PG&E evaluated electrical transmission or power lines, railroads, and roads within the project area for potential paralleling or ROW reuse opportunities, as well as routes across agricultural land, as possible corridors for the new 230 kV lines. Routing alternatives within Chapter 4 reflect public preference to reuse existing alignments where feasible, reduce potential agricultural impacts by aligning with the edge of fields where feasible, and achieve set back from major throughfares and wineries while avoiding population centers. Route and project alternatives developed with public information include: the proposed project route, Central Route Alternative, Northern Route Alternative, Southern Route East, Victor Road/SR 12 Route, East Kettleman Lane Route, use existing 60 kV ROW, 60 kV reconductoring, upgrading existing PG&E 60 kV lines to 115 kV, undergrounding the new transmission lines, and paralleling other roads and linear alignments.

Other Utility Owners and Operators

PG&E has communicated with LEU, NCPA, NSJWCD, and Comcast regarding the project and its alternatives (refer to Section 4.1). PG&E and LEU typically held monthly meetings from 2021 to 2022 to gather information about LEU's portion of the project and coordinate development of the PEA to reflect the whole of the action.

Federal, State, and Local Fire Management Agencies

PG&E has not communicated with federal, state, or local fire management agencies regarding the project.

2.2.2.1 Significant Outcomes

No significant outcomes of consultation were incorporated into the project. PG&E considered public input and preferences during project development. Routing alternatives described in Chapter 4 reflect public preference to reuse existing alignments where feasible, reduce potential agricultural impacts by aligning with the edge of fields where feasible, and achieve set back from major throughfares and wineries while avoiding population centers. Route and project alternatives developed with public information include: the proposed project route, Central Route Alternative, Northern Route Alternative, Southern Route East, Victor Road/SR 12 Route, East Kettleman Lane Route, use existing 60 kV ROW, 60 kV reconductoring, upgrading existing PG&E 60 kV lines to 115 kV, undergrounding the new transmission lines, and paralleling other roads and linear alignments. No areas of controversy or major issues related to the project have been

communicated to PG&E by representatives from San Joaquin County, City of Lodi, or others contacted as described previously.

2.2.2.2 Development that Could Coincide or Conflict With Project Activities

PG&E is not aware of any developments that could coincide or conflict with project activities.

2.2.3 Records of Consultation and Public Outreach

Public open house notifications, project newsletters, and materials used for public notifications are available at https://www.pge.com/en_US/safety/electrical-safety/safety-initiatives/northern-san-joaquin/news-and-updates.page and https://www.pge.com/en_US/safety/electrical-safety/safety-initiatives/northern-san-joaquin/resources.page.

2.3 Environmental Review Process

The project will be subject to environmental review under CEQA.

2.3.1 Environmental Review Process

The state environmental review process schedule is anticipated to begin in the third quarter of 2023. During the pre-filing consultation with PG&E, CPUC has indicated that it expects the project's CEQA document will be an Environmental Impact Report (EIR). CPUC 2019 PEA Guidelines provide a calculated duration of 29 months for an EIR CEQA document after the project application is filed.

2.3.2 California Environmental Quality Act Review

CEQA requires state and local government agencies to inform decision makers and the public about the potential environmental impacts of proposed projects and to reduce those environmental impacts to the greatest extent feasible. The laws and rules governing the CEQA process are contained in the CEQA statute (Public Resource Code [PRC] Section 21000 and following), the CEQA Guidelines (California Code of Regulations [CCR], Title 14, Section 15000 and following), published court decisions interpreting CEQA, and locally adopted CEQA procedures.

CPUC as CEQA Lead Agency

Pursuant to GO 131-D, PG&E is applying to the CPUC for a CPCN authorizing PG&E to construct the project. Further pursuant to GO 131-D, to issue a CPCN, CPUC must find that the project complies with CEQA. Therefore, the CPUC will be the Lead Agency under CEQA for the project because it has the greatest responsibility for supervising or approving the project as a whole (14 CCR Section 15051(b)).

Other State and Federal Agencies that May Have Discretionary Permitting Authority

The Central Valley Regional Water Quality Control Board (RWQCB), among others, may have discretionary permitting authority over aspects of the Project.

2.3.2.1 Federal, State, and Local Agencies Not Expected to Have Discretionary Permitting Authority

Caltrans, CVFPB, City of Lodi, San Joaquin County, and San Joaquin Valley Air Pollution Control District are expected to have ministerial permitting authority over aspects of the Project.

2.3.2.2 Results of Preliminary Outreach with Agencies

PG&E's coordination with public agencies with jurisdiction over project areas or resources that may occur in the project area confirmed federal, state, regional, and local permits or authorizations are expected for the proposed project regarding air space, overall project approval, stormwater discharges during construction, electrical line crossing (encroachment with traffic control/management as needed) of roadways, railroad lines, waterways; air pollution control (dust, asbestos, construction emissions); grading and building permits. After the CPCN is issued, PG&E will apply for permits or authorization to the appropriate agencies or authorities listed in Section 3.10, as needed for the approved project. PG&E has not been made aware of any unexpected issues that would affect the CEQA process as a result of the preliminary outreach with agencies described in Section 2.2.2 or in review of posted ministerial permitting processes on agency websites.

2.3.3 National Environmental Policy Act Review

No portions of the project are on federal lands, and the project is not known to potentially result in impacts to federal jurisdictional waters or wetlands or federally listed threatened or endangered species that would require discretionary approvals subject to review under the National Environmental Policy Act (NEPA).

2.3.4 Pre-filing California Environmental Quality Act Coordination

Pre-filing coordination with the CEQA review agency, the CPUC, is described in Section 2.2. The coordination to date has confirmed that the City of Lodi will have a separate CEQA process for the LEU portion of the project. The City of Lodi expects to use the final CPUC CEQA document for its CEQA findings process. PG&E submitted a pre-filing Draft PEA to the CPUC in December 2022. PG&E expects to include additional information and make clarifications to the PEA based on comments on the pre-filing Draft PEA provided by CPUC Energy Division staff.

2.4 Document Organization

2.4.1 PEA Organization

This PG&E PEA document contains the following chapters as set forth in the CPUC's Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments, dated November 2019, Revision 1.0.

2.4.1.1 Chapter 1, Executive Summary

This chapter includes a summary of the project, a discussion of the land ownership and ROW requirements, a presentation of the areas of controversy identified to date, a summary of potential impacts, a summary of alternatives to the project, a summary of the pre-filing consultation and public outreach performed to date, a summary of the major PEA conclusions, and a listing of remaining major issues that remain to be resolved.

2.4.1.2 Chapter 2, Introduction

This chapter includes a presentation of the purpose and need for, and objectives of, the project. It identifies the Applicant and the participating utility, details the pre-filing consultation and public outreach activities conducted to date, outlines the environmental review process, and establishes the organization of the PEA document.

2.4.1.3 Chapter 3, Project Description

This chapter includes an overview of the project; a description of the existing and proposed system; a presentation of the project components; information related to land ownership, ROW, and easements; a description of the construction methodologies to be employed; data regarding the construction workforce, equipment, traffic, and schedule; information on post-construction activities; a discussion of operation and maintenance-related work; decommissioning-related information; a listing of anticipated permits and approvals; and a table presenting Applicant-proposed measures (APMs) and best management practices (BMPs) that are considered part of the proposed project.

2.4.1.4 Chapter 4, Description of Alternatives

This chapter identifies and describes alternatives to the project, including a discussion of a No Project Alternative. It also lists alternatives identified and considered, but rejected.

2.4.1.5 Chapter 5, Environmental Analysis

This chapter includes a description of the environmental setting, regulatory setting, and impact analysis for each resource area. The resource areas addressed include each environmental factor (resource area) identified in the most recent adopted version of the CEQA Guidelines Appendix G checklist and any additional relevant resource areas and impact questions that are defined in the CPUC's PEA checklist.

2.4.1.6 Chapter 6, Comparison of Alternatives

This chapter compares each alternative described in Chapter 4 to be carried forward for PEA evaluation against the project in terms of each alternative's ability to avoid or reduce a potentially significant impact. It also provides a detailed table that summarizes the Applicant's comparison results and ranks the alternatives in order of environmental superiority.

2.4.1.7 Chapter 7, Cumulative Impacts and Other CEQA Considerations

This chapter provides a detailed table listing past, present, and reasonably foreseeable future projects within and surrounding the project (within an approximately 2-mile buffer); presents a cumulative impact analysis; and provides an evaluation of potential growth-inducing impacts.

2.4.1.8 Chapter 8, List of Preparers

This chapter lists the major authors and preparers of the PEA document.

2.4.1.9 Chapter 9, References

This chapter includes a list of references cited in this PEA.

2.4.1.10 Required PEA Appendices and Supporting Materials

PG&E is submitting with this PEA those "Required PEA Appendices and Supporting Materials" listed in the CPUC's *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments*, dated November 2019, Revision 1.0, that are applicable and necessary to support the environmental impact analyses contained in Chapters 5 and 6. An index to CPUC PEA Guidelines Requirements is provided in Appendix 2A.

3 Proposed Project Description

3.1 Project Overview

The Northern San Joaquin 230 kV Transmission Project will provide a new 230 kV transmission system in northern San Joaquin County, in central California. The project will loop the PG&E existing overhead Brighton-Bellota 230 kV transmission line through an expanded PG&E Lockeford Substation and install a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and a new PG&E switching station (PG&E Thurman Switching Station) at LEU's existing Fred M. Reid Industrial Substation (Industrial Substation) in Lodi, California. PG&E Lockeford Substation's physical address is stylized for mailing purposes as Lodi; however, PG&E Lockeford Substation is approximately 4.40 miles east of the City of Lodi city limits. LEU will construct LEU Guild Substation, a new 230/60 kV substation, between its LEU Industrial Substation and the new PG&E Thurman Switching Station. At LEU Guild Substation, the new PG&E 230 kV transmission line will terminate and LEU transformers will step down the power to 60 kV to connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured along existing alignments, including disconnecting as a source to LEU at LEU Industrial Substation. Existing LEU and PG&E 12 kV service/feeder lines and a third-party telecommunication line within the City of Lodi will be modified during construction to allow reuse of an existing alignment, continue existing service, and construct new permanent secondary station service.

The project will be located within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (refer to Figure 3.1-1). Northeastern San Joaquin County is predominantly agricultural land use with retail wineries, rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors. Agriculture primarily is wine grapes with some fruit and nut orchards and grain fields. Within the City of Lodi, the general plan land use designation and zoning is industrial and quasi-public with industrial, utility, and commercial businesses and associated railroad lines on adjacent parcels. Major geographic features in the project area include Mokelumne River, Bear Creek, SR 99, SR 88, and SR 12. The topography in the area generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project.

PG&E will perform proposed project-related work to update the system protection scheme at four remote-end substations (Bellota, Brighton, Lodi, and Rio Oso), which are located in Linden, Sacramento, Lodi, and Rio Oso, California, respectively. PG&E project-related telecommunication work will include work at the existing Clayton Hill Repeater Station (on a communication tower) in Contra Costa County to create a new digital microwave path allowing redundant communication into PG&E Thurman Switching Station in support of PG&E's system protection scheme.

3.2 Existing and Proposed System

The existing and proposed systems include modification to PG&E facilities and LEU facilities as part of the project. In subsequent sections of this report, a facility typically will be identified by its proper name and utility ownership to provide clarification. Refer to Figure 2.1-1, Figure 2.1-2, and Figure 2.1-3 for schematic diagrams of the existing system features, proposed system features, and proposed system features at project completion, respectively. "Transmission" will indicate a 230 kV line, "power" will refer to a 115 kV or 60 kV line, and "distribution" is a 12 kV line, which also may be called a feeder line or a service line depending on its distribution purpose.

For identification within this document, the existing PG&E 60 kV wood pole structures that will be removed or modified are numbered sequentially from LEU Industrial Substation toward the other end of each of the three PG&E lines. Refer to Figure 3.3-2a and Figure 3.5-1 for PG&E 60 kV numbered structures. The new

PG&E 230 kV line structures are numbered east to west. The proposed PG&E transmission line structures are numbered E1-E23 and W1-W49 when east and west of PG&E Lockeford Substation, respectively. Refer to Figure 3.3-1b, Figure 3.3-2b, and Figure 3.5-1 for numbered PG&E transmission structures.

3.2.1 Existing System

The existing system that will be modified as part of the project includes four PG&E 230 kV transmission lines, five PG&E substations, one PG&E repeater station, four PG&E 60 kV power lines, one PG&E 12 kV service line, one LEU substation, two LEU 12 kV feeder lines, and one Comcast communication line. The existing system's modification is focused on extending an existing PG&E 230 kV line through a new 230 kV bus at PG&E Lockeford Substation to provide service to LEU as a new double-circuit transmission line (DCTL). PG&E's new 230 kV line will terminate within the new PG&E Thurman Switching Station. LEU will construct a new LEU Guild Substation adjacent to PG&E Thurman Switching Station. LEU Guild Substation will convert 230 kV to 60 kV and deliver 60 kV to the modified LEU Industrial Substation. Three existing PG&E 60 kV lines currently providing service to LEU Industrial Substation will be disconnected and reconfigured with a fourth PG&E 60 kV line during construction as part of changing the PG&E service to LEU from 60 kV to 230 kV. One LEU 12 kV feeder line is being relocated to accommodate a portion of the new PG&E 230 kV line in an existing alignment and will continue backup service to an LEU customer. A portion of an LEU 12 kV feeder line connecting to a PG&E 60 kV pole is not in service and will be removed during the project. A Comcast communication line currently underbuilt on a PG&E 60 kV line will be relocated by Comcast. One PG&E 12 kV line will be extended to provide secondary station service for the new PG&E Thurman Switching Station. A terminal structure of two PG&E 230 kV transmission lines on PG&E property is being relocated as part of PG&E Lockeford Substation's 230 kV bus modification. Four PG&E substations and a PG&E telecommunication repeater station are remote-end facilities that will be modified within existing station fence lines to align with project components in northeastern San Joaquin County. An overview of the existing system and ancillary system components in the northern San Joaquin County area is included on Figure 3.1-1, Figure 3.3-1a, and Figure 3.3-2a. Changes to existing components and proposed components are shown on Figure 3.3-1b, Figure 3.3-2b, and Figure 3.5-1.

3.2.1.1 PG&E Brighton-Bellota 230 kV Transmission Line

The existing PG&E Brighton-Bellota 230 kV Transmission Line is a single-circuit line approximately 42.5 miles long between PG&E Brighton and Bellota substations in Sacramento and Linden, respectively. Approximately 8.5 miles north of PG&E Bellota Substation, the line would be looped into PG&E Lockeford Substation, creating a new double-circuit 230 kV line extension approximately 3.8 miles long. When in service, the PG&E lines will operate as Brighton-Lockeford and Lockeford-Bellota No. 2. The existing Brighton-Bellota line name will be retired. Refer to Figure 3.1-1, Figure 3.3-1a, Figure 3.3-1b, and Figure 3.5-1.

3.2.1.2 PG&E Lockeford-Bellota 230 kV Transmission Line

The existing PG&E Lockeford-Bellota 230 kV Transmission Line is a single-circuit line approximately 12.3 miles long between PG&E Lockeford and Bellota substations in Lodi and Linden, respectively. During the project, the line's terminal position within the existing PG&E Lockeford Substation 230 kV bay will be relocated on the bay. The terminal structure the line shares with the existing PG&E Rio Oso-Lockeford Line outside of the substation fence will be moved approximately 85 feet to the north to accommodate the new substation bay location. The terminal structure is identified as RO1 in this document and on figures. The line will be renamed to operate as Lockeford-Bellota No. 1, and the existing Lockeford-Bellota line name will be retired. Refer to Figure 3.1-1, Figure 3.3-1a, Figure 3.3-1b, and Figure 3.5-1.

3.2.1.3 PG&E Rio Oso-Lockeford 230 kV Transmission Line

The existing PG&E Rio Oso-Lockeford 230 kV Transmission Line is a single-circuit line approximately 65.1 miles long between PG&E Rio Oso and Lockeford substations in Rio Oso and Lodi, respectively. During the project, the terminal structure (RO1) the line shares with PG&E Lockeford-Bellota Line outside

of the substation fence will be moved approximately 85 feet to the north to accommodate the new substation bay location. Refer to Figure 3.1-1, Figure 3.3-1a, Figure 3.3-1b, and Figure 3.5-1.

3.2.1.4 PG&E Lockeford Substation

The existing PG&E Lockeford Substation includes 230 kV, 115 kV, and 60 kV facilities and a general construction yard. Project activities will include expansion of the fenced substation footprint on substation property to locate a new 230 kV bay, as well as modification to the existing 230 kV facilities, existing drainage and retention basin components, and the general construction yard. Existing substation telecommunications facilities, control systems, and supervisory control and data acquisition (SCADA) systems will be modified to align with the new 230 kV lines and the reconfigured 60 kV line. Existing AT&T fiber lines will be extended with the substation to support telecommunication modifications. Refer to Figure 3.1-1, Figure 3.3-1a, Figure 3.3-1b, and Figure 3.5-1.

3.2.1.5 PG&E Lockeford-Industrial 60 kV Power Line

The existing PG&E Lockeford-Industrial 60 kV Power Line is a single-circuit line approximately 6 miles long between PG&E Lockeford Substation and LEU Industrial Substation in Lodi. For identification within this document, the existing wood pole structures that will be modified are numbered from west to east as pole 1 through pole 10 starting with the terminal structure outside of LEU Industrial Substation toward PG&E Lockeford Substation. During the project, a portion of the western end of the line (approximately 0.54 mile) into LEU Industrial Substation will be removed (pole 1 through pole 9). Refer to Figure 3.1-1, Figure 3.3-2a, Figure 3.3-2b, and Figure 3.5-1.

The 60 kV alignment will be reused for the new 230 kV transmission line where it enters the City of Lodi to PG&E Thurman Switching Station. The existing service and telecommunication underbuild using joint pole agreements (on pole 4) will be removed and relocated by the utility owners. The existing LEU 12 kV feeder lines and the existing Comcast telecommunication line will be removed and relocated. The remaining eastern portion of the line (approximately 5.46 miles) from PG&E Lockeford Substation to pole 10 at the western end of East Sargent Road will be connected to the west with a new span (approximately 115 feet) across the railroad tracks. This span connects to an existing portion of PG&E Industrial Tap (pole 13). Farther to the west along East Lodi Avenue to the north of LEU Industrial Substation, the western end of PG&E Industrial Tap (pole 2) will be connected to the eastern end of existing PG&E Lodi-Industrial Line (pole 2). This connection will occur after these two PG&E 60 kV lines are disconnected from service into LEU Industrial Substation. These reconfigured 60 kV line segments will operate as Lockeford-Lodi No. 1 (preliminary name) with updated control and SCADA systems at PG&E Lockeford and Lodi substations.

3.2.1.6 PG&E Lodi-Industrial 60 kV Power Line

The existing PG&E Lodi-Industrial 60 kV Power Line is a single-circuit line approximately 0.98 mile long between PG&E Lodi Substation and LEU Industrial Substation in Lodi. For identification within this document, the existing wood pole structures that will be modified are numbered from south to north as pole 1 and pole 2, starting with the terminal structure outside of LEU Industrial Substation toward PG&E Lodi Substation. Approximately 200 feet of the existing line will be disconnected from LEU Industrial Substation after the 230 kV feed is in service, pole 1 is removed, and the remaining western portion of the line (approximately 0.94 mile) is connected from pole 2 to PG&E Industrial Tap pole 2 to support reconfiguration to operate as Lockeford-Lodi No. 1 (preliminary name). The existing steel guy stub pole near 1303 East Lodi Avenue and the connecting horizontal guy wires to PG&E Lodi-Industrial pole 2 and PG&E Industrial Tap pole 2 are expected to be removed as part of construction. Refer to Figure 3.1-1, Figure 3.3-2a, Figure 3.3-2b, and Figure 3.5-1.

3.2.1.7 PG&E Industrial Tap 60 kV Power Line

The existing PG&E Industrial Tap 60 kV Power Line is a single-circuit line approximately 0.97 mile long between PG&E Lockeford-Lodi 60 kV No. 2 Power Line and LEU Industrial Substation in Lodi. Refer to

Figure 3.1-1. For identification within this document, the existing wood pole structures that will be modified are numbered from west to northeast as pole 1 through pole 22, starting with the terminal structure outside of LEU Industrial Substation to and including the PG&E Lockeford-Lodi No. 2 60 kV Line wood pole at SR 12/East Victor Road. Refer to Figure 3.3-2a and Figure 3.5-1. PG&E Industrial Tap will be disconnected from LEU Industrial Substation after the 230 kV feed is in service and pole 1 is removed. The remaining western portion of the line (approximately 0.42 mile) will be connected at pole 2 with the western portion of PG&E Lodi-Industrial Line at its pole 2. The existing steel guy stub pole near 1303 East Lodi Avenue and the connecting horizontal guy wires to PG&E Lodi-Industrial pole 2 and PG&E Industrial Tap pole 2 are expected to be removed as part of construction. PG&E Industrial Tap pole 13 will connect to the eastern portion of PG&E Lockeford-Industrial Line at its pole 10 to operate as Lockeford-Lodi No. 1 (preliminary name). The northern approximately 0.5 mile of PG&E Industrial Tap Line will be modified between PG&E Lockeford-Lodi No. 2 Power Line at Victor Road/SR 12 south to the alignment of new PG&E Lockeford-Lodi No. 1 Line. The approximately 0.5-mile portion of the existing power line is underbuilt with a PG&E 12 kV line. PG&E estimates that approximately eight existing power line wood poles (pole 14 to pole 21) will be topped after the 60 kV conductors and framing are removed. The existing PG&E 12 kV line will not be modified and will remain in service on the topped wood poles. Refer to Figure 3.3-2b. The existing Industrial Tap line name will be retired.

3.2.1.8 PG&E Lockeford-Lodi No. 2 60 kV Power Line

The existing PG&E Lockeford-Lodi No. 2 60 kV Power Line is a single-circuit line approximately 7.8 miles long between PG&E Lockeford and PG&E Lodi substations. Refer to Figure 3.1-1. Where the line turns west along SR 12/East Victor Road, PG&E Industrial Tap Line begins from a Lockeford-Lodi No. 2 Line wood pole and heads south to LEU Industrial Substation. Refer to Figure 3.5-1 for where project work on this line will occur and the existing PG&E distribution pole on the south side of East Victor Road/SR 88. The existing Lockeford-Lodi No. 2 wood pole is the only line structure that is expected to be modified as part of project construction. Before the connecting span from PG&E Industrial Tap is removed, the angle pole on PG&E Lockeford-Lodi No. 2 (identified as PG&E Industrial Tap pole 22) will be reframed. Aerial horizontal guy wire will be installed to the south from pole 22 to an existing PG&E distribution pole to replace the existing tap line tension along with new down guy wire installed on the existing PG&E distribution pole.

3.2.1.9 PG&E Service Line on South Guild Avenue

The existing PG&E 12 kV overhead service line that terminates on the east side of South Guild Avenue north of East Lodi Avenue will be extended underground by approximately 500 feet to provide secondary station service to the new PG&E Thurman Switching Station. Refer to Figure 3.3-2a, Figure 3.3-2b, and Figure 3.5-1 for the existing PG&E distribution pole on the east side of South Guild Avenue and two preliminary underground route options. The underground extension will be within franchise in South Guild Avenue and horizontal directional drilling (HDD), or another trenchless construction method, will be used to cross under the railroad tracks.

3.2.1.10 PG&E Bellota, Brighton, Lodi, and Rio Oso Substations

The existing PG&E 230 kV lines and 60 kV line terminate in remote-end Bellota, Brighton, Rio Oso, and Lodi substations in Linden, Sacramento, Rio Oso, and Lodi, respectively. Project-related actions will occur to update the system protection schemes and communication paths. At PG&E Bellota, Brighton, and Rio Oso substations, existing 230 kV communication equipment (line tuner and wave traps) associated with the three existing 230 kV transmission lines that are no longer needed will be retired in place or removed. Within existing PG&E Bellota, Brighton, and Rio Oso substations, existing AT&T fiber lines will be extended to support 230 kV communication. Existing system protection equipment in the control facilities will be updated to align with the modifications to the connecting 230 kV lines into PG&E Bellota, Brighton, and Rio Oso substations and the 60 kV line into PG&E Lodi Substation. Refer to Figure 3.1-1.

3.2.1.11 PG&E Clayton Hill Repeater Station

The existing PG&E Clayton Hill Repeater Station located in Contra Costa County is a communication tower with antennas providing system protection scheme communication paths between PG&E facilities. Approximately two new antennas will be installed on the tower to establish a communication path with the new microwave tower within the new PG&E Thurman Switching Station in Lodi. Refer to Figure 3.1-1.

3.2.1.12 LEU Industrial Substation

The existing LEU Industrial Substation is a 60 kV/12 kV substation in Lodi with connections to PG&E Lodi-Industrial, PG&E Industrial Tap, and PG&E Lockeford-Industrial 60 kV Power Lines. During the project, the substation will be interconnected within the substation's property to the new, adjacent LEU Guild Substation's 60 kV bus with the new Guild-Industrial No. 1 and No. 2 60 kV lines and will be disconnected from PG&E's three 60 kV lines. Existing LEU 60 kV lines within the substation will be transposed to address the changes in 60 kV feed. Refer to Figure 3.3-2a, Figure 3.3-2b and Figure 3.5-1.

3.2.1.13 LEU 12 kV Feeder Lines

Portions of two LEU 12 kV lines extending from LEU Industrial Substation and partially located on PG&E Lockeford-Industrial 60 kV Power Line (pole 2 to pole 6) will be removed and reconfigured by LEU to continue existing customer service. The overhead portion of a west-east LEU feeder line (pole 2 to pole 6) will be removed. The existing connecting underground lengths will be retired in place (west end) and extended to continue service (east end). The existing underground west portion between PG&E Lockeford-Industrial pole 2 and LEU Industrial Substation will be retired in place. A new LEU underground 12 kV line east segment will extend west from near PG&E Lockeford-Industrial pole 6 to connect to an existing overhead line segment on the existing LEU wood pole south of PG&E Lockeford-Industrial pole 4. The existing LEU wood pole has a single south-north LEU 12 kV span to PG&E Lockeford-Industrial pole 4. This span is not in service and will be removed without being replaced. Refer to Figure 3.3-2a and Figure 3.3-2b, and Figure 3.5-1.

3.2.1.14 Existing System Users, Area, and Local and Regional Systems

The project's service area is within northern San Joaquin County and includes more than 37,750 electrical customers in the communities of Stockton, Lodi, Lockeford, Victor, Acampo, and Thornton. PG&E has approximately 10,000 customers, including the City of Lodi, Mettler Winery, Sutter Home Winery, and Woodbridge Winery. The PG&E customer base generally consists of the following:

- Approximately 71.1% residential accounts
- Approximately 14.8% agricultural accounts
- Approximately 9.7% commercial accounts
- Approximately 1.7% industrial accounts
- Approximately 0.6% streetlights
- Approximately 2.1% other types of accounts, including a special load and a temporary load

Within the City of Lodi, approximately 27,750 electrical customers are served by the operation of its publicly owned electric utility, Lodi Electric Utility. The City of Lodi's customers generally consist of the following (Shahriar 2023):

- Approximately 91.4% are residential accounts
- Approximately 8.5% are commercial accounts
- Approximately 0.1% are industrial accounts

Electricity sources include several hydroelectric facilities (named as a powerhouse, PH), including NCPA Collierville PH, PG&E Tiger Creek PH, PG&E Electra PH, PG&E Salt Springs PH, PG&E West Point PH that feed PG&E Bellota Substation and PG&E Poe PH, PG&E Rock Creek PH, PG&E Cresta PH that serve PG&E Rio Oso Substation. The NCPA Lodi combustion turbine uses diesel fuel to generate electricity primarily during high load periods. In addition, California Department of Water Resources is completing a 48 MW natural gas generator, the Strategic Reliability Reserve, at Lodi's Surface Water Treatment Facility. This facility is to only be used in extreme peak-demand events to provide temporary power generation to stabilize and supplement existing grid-tied power supplies to avoid grid failures both statewide and locally, for up to five years. The Strategic Reliability Reserve is only planned for use until the proposed project is completed. If the City chooses to continue operating the generators after 5 years, the project would be subject to additional review and certification by the California Energy Commission (CEC).

3.2.1.15 Project and the Existing Local and Regional Systems

The project will shift load from the existing PG&E 230/60 kV system in Northern San Joaquin area to a new PG&E 230 kV source to address reliability and capacity issues on the existing PG&E 230/60 kV system serving the area between PG&E Lockeford and PG&E Lodi substations.

The project will loop the PG&E existing overhead Brighton-Bellota 230 kV transmission line through an expanded PG&E Lockeford Substation and install a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and a new PG&E Thurman Switching Station at LEU Industrial Substation. LEU will construct LEU Guild Substation, a new 230/60 kV substation, between the existing LEU Industrial Substation and the new PG&E Thurman Switching Station. At LEU Guild Substation, the new PG&E 230 kV transmission line will terminate and LEU transformers will step down the power to 60 kV to connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured within existing alignments, including disconnecting as a source to LEU at LEU Industrial Substation by removing the connections with PG&E Lockeford-Industrial, PG&E Industrial Tap, and PG&E Lodi-Industrial 60 kV lines.

By bringing in a new 230 kV source and separating PG&E's and LEU's 60 kV systems, the current and projected voltage issues and thermal overloads on PG&E's 230/60 kV system will be addressed and forecasted demand growth will be accommodated.

3.2.2 Proposed Project System

The proposed system will include new proper names for four PG&E 230 kV lines, two PG&E and LEU 230 kV lines, two LEU 60 kV lines, one PG&E 60 kV line, one LEU substation, and one PG&E switching station through reconfiguration of existing lines and/or construction of new lines and facilities.

3.2.2.1 PG&E Brighton-Lockeford and Lockeford-Bellota No. 2 230 kV Transmission Lines

An extension, or loop, of the existing PG&E Brighton-Bellota 230 kV Transmission Line will be constructed between a span on the line and PG&E Lockeford Substation for approximately 3.8 miles. The extension will create a double-circuit 230 kV transmission line that will operate as PG&E Brighton-Lockeford and Lockeford-Bellota No. 2 230 kV Transmission Lines. For identification within this document, the new transmission structures are numbered from east to west as E1 through E23 between PG&E Brighton-Bellota Line and PG&E Lockeford Substation. Refer to Figure 3.3-1b and Figure 3.5-1.

3.2.2.2 PG&E Lockeford-Thurman 230 kV No. 1 and No. 2 Transmission Lines

PG&E will construct a new double-circuit 230 kV line approximately 6.8 miles long connecting the existing PG&E Lockeford Substation with the new PG&E Thurman Switching Station to operate as PG&E Lockeford-Thurman No. 1 and No. 2 230 kV Transmission Lines. For identification within this document, the new transmission structures are numbered from east to west as W1 through W49 between PG&E

Lockeford Substation and PG&E Thurman Switching Station. Refer to Figure 3.3-1b, Figure 3.3-2b, and Figure 3.5-1.

3.2.2.3 PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines

PG&E and LEU will own and operate their respective portions of the single spans of the new Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines constructed between the PG&E Thurman Switching Station 230 kV bay and the LEU Guild Substation 230 kV bay. Refer to Figure 3.3-2b and Figure 3.5-1.

3.2.2.4 LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines

LEU will construct two spans of the new LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines between the respective 60 kV bays within the new LEU Guild Substation and the existing LEU Industrial Substation. Two poles will be constructed within the existing LEU Industrial Substation 60 kV yard to receive the 60 kV lines from LEU Guild Substation. Refer to Figure 3.3-2b and Figure 3.5-1.

3.2.2.5 PG&E Lodi-Lockeford No. 1 60 kV Power Line (preliminary name)

As part of the project, PG&E will reconfigure its existing Lodi-Industrial, Industrial Tap, and Lockeford-Industrial 60 kV Power Lines to operate as Lodi-Lockeford No. 1 60 kV Power Line (preliminary name). A western portion of PG&E Industrial Tap Line (approximately 0.42 mile) will be connected with the western portion of PG&E Lodi-Industrial Line (approximately 0.94 mile) and the eastern portion of PG&E Lockeford-Industrial Line (approximately 5.46 miles) to operate as Lockeford-Lodi No. 1 Line (preliminary name). The reconfigured single-circuit 60 kV line will be approximately 6.82 miles long and connect PG&E Lockeford and Lodi substations. Refer to Figure 3.3-1b, Figure 3.3-2b, and Figure 3.5-1.

3.2.2.6 PG&E Thurman Switching Station

The proposed PG&E Thurman Switching Station will be a new PG&E 230 kV switching station within the City of Lodi. The switching station will switch the PG&E 230 kV feed from PG&E Lockeford-Thurman 230 kV No. 1 and No. 2 Transmission Lines to LEU. The new PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines will connect into the adjacent new LEU Guild Substation. New antennas on a new microwave tower located within the switching station yard will communicate with new antennas on the existing PG&E Clayton Hill Repeater Station. Refer to Figure 3.3-2b and Figure 3.5-1.

3.2.2.7 LEU Guild Substation

The proposed LEU Guild Substation will transform the 230 kV feed into 60 kV. The new LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines will connect to LEU's 60 kV system at the adjacent LEU Industrial Substation. Refer to Figure 3.3-2b and Figure 3.5-1.

3.2.2.8 Proposed Facilities Expected Capacities and Proposed System Changes

The project will shift approximately 148 MW of load (refer to Section 2.1) from the existing PG&E northern San Joaquin 60 kV system to a new PG&E 230 kV source. Moving the LEU load to the PG&E 230 kV source will reduce demand on the PG&E 60 kV system, which will provide greater reliability to other existing PG&E customers within northern San Joaquin County.

After the project, the Lockeford-Lodi system will increase from its current normal Load Serving Capability of 194 MW to approximately 404 MW with the proposed 230 kV system upgrade under normal operating condition, and from its emergency Load Serving Capability of 152 MW to approximately 456 MW under N-1 contingency. It should be noted that the line 2 fps emergency rating has been used wherever it applies and the NCPA Lodi CT is offline in the study model.

The existing PG&E system includes service to LEU by PG&E through three existing PG&E 60 kV power lines. The proposed system would differ from the existing system by changing PG&E's service to LEU from the existing three P&E 60 kV lines into LEU Industrial Substation to two new PG&E 230 kV transmission lines from PG&E Thurman Switching Station to LEU Guild Substation.

3.2.2.9 Proposed Project Buildout

The proposed project system will have a single buildout to address purpose and need. While additional space is available within or adjacent to most stations being constructed or modified by the project, no current or reasonably foreseeable plans exist for future buildout for either PG&E or LEU needs.

3.2.2.10 Proposed System Users, Area, and Local and Regional Systems

The difference between the existing system and the proposed system is that the Lodi Electric Utility will now be served by a new PG&E-owned 230 kV transmission system through a new LEU-owned Guild Substation as opposed to the existing three PG&E 60 kV power lines through LEU's existing Industrial Substation. No changes will occur to the PG&E or LEU distribution systems serving their respective end-use customers or service area served by the proposed system. The proposed service area will continue to be within northern San Joaquin County and include the existing PG&E and LEU electrical customers in the communities of Stockton, Lodi, Lockeford, Victor, Acampo, and Thornton.

3.2.3 System Reliability

A portion of the project creates a system tie or loop for reliability. The extension, or loop, of the existing PG&E Brighton-Bellota 230 kV Line into PG&E Lockeford Substation creates a system tie or loop for reliability on the 230 kV system at PG&E Lockeford Substation. The looping results in increased reliability for PG&E Lockeford Substation by adding two new 230 kV sources. With the two new sources, PG&E Lockeford Substation will no longer need to be served by a single transmission source to address low-voltage issues in the area. The project will eliminate the risk of an areawide service interruption for the next single transmission line outage that could occur while PG&E Lockeford Substation was being served by a single transmission source.

3.2.4 Planning Area

The Electrical Needs Area is the area served by the Victor, Lodi, Colony, New Hope, and Mettler PG&E substations and third-party Woodbridge Winery Substation, plus LEU Industrial Substation. These substations are part of PG&E's Stockton Distribution Planning Area.

3.3 Project Components

The proposed project includes new or modified substations; a switching station with a microwave tower; a repeater station; a system protection scheme; and 230 kV transmission, 60 kV power, 12 kV distribution (service or feeder), and telecommunication (cable, optical ground, and shield wires) lines. Underground facilities or portions thereof include new and modified foundations, grounding grids, a new switching station secondary service line, a relocated customer feeder line, and telecommunication circuits at substations.

3.3.1 Preliminary Design and Engineering

The project is currently at the 60% design stage for lines and preliminary design stage for substations, which provides the preliminary design and engineering for the physical, civil, and outdoor components. The remaining design and engineering will focus on automation, system protection schemes, and indoor components. Figure 3.1-1 provides the approximate locations of the facilities. Figures associated with Section 3.3.3 and Section 3.3.4 show detailed project maps with facility locations and boundaries for

aboveground and underground facilities. Geographic information system (GIS) data are provided under separate cover to the CPUC. Project activities will occur within new and existing ROW, access, and PG&E property. LEU's activities will occur on existing LEU property, ROW, or access rights. Areas for operation will occur within PG&E or LEU property, permanent ROW, or access as discussed in Section 3.4. Construction work areas and access will occur within existing, modified, or new ROW with some adjacent or nearby temporary construction work areas and access as detailed in Section 3.5.

3.3.2 Segments, Components, and Phases

The project will include two main construction efforts: (1) construction of the proposed 230 kV facilities, and (2) final reconfiguration of the existing 60 kV and existing 230 kV ring bus. The existing PG&E 60 kV lines cannot be removed entirely from service to LEU Industrial Substation until the PG&E 230 kV transmission feed is established to LEU. The initial effort will focus on relocating existing lines and constructing the new station facilities in Lodi and the PG&E 230 kV feed into LEU Industrial Substation. The later construction effort will complete the reconfiguration of the existing PG&E 60 kV lines when they are disconnected from LEU Industrial Substation and complete the reconfiguration of PG&E Lockeford Substation's 230 kV bus.

For identification within this document, the wood pole structures of the three existing PG&E power lines are numbered from their first pole outside of LEU Industrial Substation toward the other end of the line. For example, PG&E Industrial Tap wood poles are numbered pole 1 through pole 22 to identify structures between LEU Industrial Substation and the end of the line at SR 12/East Victor Road. The north end of PG&E Industrial Tap is a span connecting to an existing wood pole of PG&E Lockeford-Lodi No. 2 60 kV Line (pole 22). Existing PG&E 60 kV wood poles are not given an identification number if no work is expected to occur at the structure as part of this project.

Table 3.3-1 summarizes the construction components of the 230 kV transmission system and the 60 kV reconfiguration. Figure 3.3-1a, Figure 3.3-1b, Figure 3.3-2a, Figure 3.3-2b, and Figure 3.5-1 include preliminary project maps showing the project components.

Table 3.3-1. Construction Components, Phases, and Timing

Construction Phase & Timing	Components
Constructing the new 230 kV facilities Q3 2026 to Q1 2028	• Relocate an existing LEU 12 kV feeder lines (approximately 0.20 mile), currently underbuilt on PG&E Lockeford-Industrial 60 kV Line (on poles 2 to 6, and unused span to pole 4) to an underground configuration within an existing easement for approximately 750 feet to allow construction of the new PG&E Lockeford-Thurman 230 kV Line. The underground configuration will connect to existing LEU 12 kV wood pole along South Guild Avenue to continue service. The existing underground portion of the LEU 12 kV feeder line between LEU Industrial Substation and PG&E Lockeford-Industrial pole 2 will be retired in place. • Remove a span of an existing LEU 12 kV service line (approximately 72 feet) currently between PG&E Lockeford-Industrial 60 kV pole 4 and LEU 12 kV wood pole to the south. The existing span is not in service. • Communicate the construction schedule to Comcast to relocate its existing telecommunication line on PG&E Lockeford-Industrial 60 kV Line pole 4. • Modify the existing PG&E Lockeford Substation, increasing the fenced area on the PG&E property by approximately 2.32 acres and extend AT&T fiber lines within substation. • Extend the existing PG&E Brighton-Bellota 230 kV Transmission Line by approximately 3.8 miles, ultimately creating PG&E Brighton-Lockeford and PG&E Lockeford-Bellota No. 2 230 kV Transmission Lines colocated as a double-circuit line.

Construction Phase & Timing	Components
	• Construct the new 230 kV PG&E Thurman Switching Station, with a permanent fenced area of approximately 5.71 acres. • Construct an approximately 125-foot-tall microwave tower within PG&E Thurman Switching Station, place fiber optic cables between PG&E Thurman Switching Station and LEU Industrial Substation, and place fiber optic cables or optical cable ground wires in the top position on the new PG&E 230 kV lines connecting from the last structure into the substations. • Modify PG&E Clayton Hill Repeater Station by adding two antennas to the existing south communication tower. • Extend an existing PG&E 12 kV line, underground in franchise, for approximately 500 feet creating a new PG&E Thurman Switching Station secondary station service feed. • Construct the new 230/60 kV LEU Guild Substation, with a permanent fenced area of approximately 3.25 acres. • Construct new PG&E and LEU 230 kV lines (approximately 135 feet) Thurman-Guild 230 kV No. 1 and No. 2 to connect the adjacent PG&E Thurman Switching Station and LEU Guild Substation. • Modify the existing 60 kV LEU Industrial Substation within its existing fence line to receive the new feed from the adjacent new 230/60 kV LEU Guild Substation. • Construct new LEU 60 kV lines (approximately 180 feet), Guild-Industrial 60 kV No. 1 and No. 2, to connect the adjacent LEU Guild and Industrial substations. • Construct the new double-circuit 230 kV transmission line, PG&E Lockeford-Thurman 230 kV Transmission Line, for approximately 6.4 miles. The final approximately 0.4 mile of the new PG&E 230 kV line (W44 to W48) will be constructed after PG&E Lockeford-Industrial 60 kV line is partially removed (pole 1 to pole 9). • Modify PG&E Lockeford-Industrial 60 kV line to remove ten spans (approximately 0.50 mile, pole 1 to pole 9) into LEU Industrial Substation; construct the final western portion (approximately 0.4 mile) of the new PG&E Lockeford-Thurman 230 kV Transmission Line (W44 to W48). • Extend AT&T fiber lines and modify system protection equipment in the control facilities at the remote end of PG&E Bellota, Brighton, and Rio Oso substations. • Test, commission, and place new 230 kV source in service.

Construction Phase & Timing	Components
Reconfiguring the existing 60 kV facilities (when the new 230 kV source is in service) and continuing the 230 kV updates Q4 2027 to Q2 2029	• Modify LEU Industrial Substation and remove connections with PG&E Lodi-Industrial and PG&E Industrial Tap 60 kV lines between facilities. • Modify PG&E Lodi-Industrial (remove pole 1, modify pole 2 and pole 3, new span from pole 2 to Industrial Tap pole 2), PG&E Industrial Tap (remove pole 1, modify pole 2, reframe pole 12 and pole 13, top pole 14 though pole 21, remove span between pole 13 and pole 22), PG&E Lockeford-Lodi No. 2 (install new horizontal guy wire from pole 22 across SR 12/East Victor Road to existing PG&E distribution pole), and PG&E Lockeford-Industrial (replace pole 10, new span from pole 10 to Industrial Tap pole 13) to operate as PG&E Lockeford-Lodi No. 1 (preliminary name). • Modify the system protection scheme in the control facilities at the remote end of PG&E Lockeford and Lodi substations. • Relocate approximately 85 feet north the existing terminal structure (RO1) for PG&E Rio Oso-Lockeford and Lockeford-Bellota 230 kV Transmission Lines at PG&E Lockeford Substation. • Complete reconfiguration of PG&E Lockeford Substation existing 230 kV Bus 1. • Remove or retire in place the line tuner/wave traps at the remote end of PG&E Bellota, Brighton, and Rio Oso substations. • Modify system protection equipment in the control facilities at the remote end of PG&E Bellota, Brighton, Lodi, and Rio Oso substations.

Notes:

Q1, Q2, Q3, Q4 = Quarter 1, Quarter 2, Quarter 3, Quarter 4

3.3.3 Existing Facilities

The proposed project will modify and remove facilities as summarized in Table 3.3-2. The subsequent sections summarize each project component in more detail.

Table 3.3-2. Types of Existing Facilities to be Removed or Modified

Component	Facilities Removed	Facilities Modified
PG&E Lockeford Substation	• Replace fence	• Expand permanent facility fence line by approximately 2.32 acres or approximately 1,330 feet. Replace all existing perimeter fence line in-kind and install new sections for new fence line. • Expand retention pond and rebuild existing concrete stormwater drainage. • Build new 230 kV bay, control, and battery buildings with potential ground system expansion; reconfigure existing 230 kV bay; move existing 230 kV control equipment to new building. • Improve existing western internal drive path for all-weather use; install interior gate between western side yard and central yard. • Extend AT&T fiber lines within substation. • Update system protection scheme in existing control facilities.

Component	Facilities Removed	Facilities Modified
PG&E Brighton-Bellota 230 kV Line	• Retire Brighton-Bellota 230 kV Line name	• Install a dead-end structure (E1) starting an approximately 3.8-mile line extension, creating a double-circuit 230 kV line (E1 to E23) into PG&E Lockeford Substation. • Operate the line extension so that the north circuit will be part of PG&E Brighton-Lockeford 230 kV Line and the south circuit will be part of PG&E Lockeford-Bellota No. 2 Line.
PG&E Rio Oso-Lockeford 230 kV Line	• Replace final structure at PG&E Lockeford Substation	• Replace final line structure, RO1 (shared with PG&E Lockeford-Bellota), approximately 85 feet north of the existing structure on the substation parcel to reduce the current approximately 30-degree structure angle.
PG&E Lockeford-Bellota 230 kV Line	• Replace final structure at PG&E Lockeford Substation • Retire Lockeford-Bellota 230 kV Line name	• Replace final line structure, RO1 (shared with PG&E Rio Oso-Lockeford), approximately 85 feet north of the existing structure on the substation parcel to reduce the current approximately 30-degree structure angle. • Relocate PG&E Lockeford-Bellota 230 kV Line within PG&E Lockeford Substation Bay 1 position and rename it for operation as PG&E Lockeford-Bellota No. 1 Line.
LEU Industrial Substation	Terminal connections to: • PG&E Lodi-Industrial • PG&E Industrial Tap • PG&E Lockeford-Industrial • Overhead LEU 12 kV feeder (to northeast)	• Expand ground system, replace eastern perimeter fence and install pedestrian gate. • Install new 12 kV feeder underground riser, two single-circuit 60 kV TSPs, underground telecommunication conduits to LEU Guild Substation. • Update relay setting. • Phase transposition of existing LEU substation 60 kV lines.
LEU 12 kV Feeder Lines from LEU Industrial Substation	• LEU 12 kV underbuild on PG&E Lockeford-Industrial 60 kV Line • Retire in place existing underground portion	• Relocate aboveground 12 kV line (PG&E Lockeford-Industrial pole 2 to pole 6) to an underground configuration along existing alignment and connect to a separate existing LEU 12 kV line from LEU Industrial Substation. Remove LEU 12 kV span between PG&E Lockeford-Industrial pole 4 and LEU 12 kV wood pole.
Comcast Telecommunication Line	• Comcast to remove its existing line on PG&E Lockeford-Industrial Line pole 4.	• Comcast will use other existing Comcast telecommunication lines and other joint poles as needed.
PG&E 12 kV Service Line on South Guild Avenue north of East Lodi Avenue	• None	• Extend service from PG&E 12 kV wood pole approximately 500 feet underground within South Guild Avenue to new PG&E Thurman Switching Station.

Component	Facilities Removed	Facilities Modified
PG&E Lockeford-Industrial 60 kV Line	• Remove 10 spans and 9 poles (pole 1 to pole 9), including span into LEU Industrial Substation • Retire PG&E Lockeford-Industrial 60 kV Line name	• Install new span to connect PG&E Lockeford-Industrial pole 10 with PG&E Industrial Tap pole 13 near western end of East Sargent Road. Replace pole 10 (east end of new span) with light-duty steel pole the same approximate height with a new down guy. • When PG&E Lodi-Industrial Line is disconnected from LEU Industrial Substation and connected with PG&E Industrial Tap, operate PG&E reconfigured 60 kV line as PG&E Lockeford-Lodi No. 1 Line (preliminary name).
PG&E Lodi-Industrial 60 kV Line	• Remove terminal span and pole 1 outside LEU Industrial Substation • Remove pole 2 horizontal guy and stub pole on north side of East Lodi Avenue • Retire PG&E Lodi-Industrial 60 kV Line name	• Replace arms of existing pole 2 and pole 3 along East Lodi Avenue to connect PG&E Lodi-Industrial to PG&E Industrial Tap pole 2 and install new conductor between existing pole 2s. • Operate the remaining portion of PG&E Lodi-Industrial Line as PG&E Lockeford-Lodi No. 1 Line (preliminary name).
PG&E Industrial Tap 60 kV Line	• Remove terminal span and pole 1 outside LEU Industrial Substation • Remove pole 2 horizontal guy and stub pole on north side of East Lodi Avenue • Retire PG&E Industrial Tap 60 kV Line name	• Reframe pole 12 and pole 13 and install a new down guy. Install new span to connect PG&E Industrial Tap pole 13 to PG&E Lockeford–Industrial pole 10 near western end of East Sargent Road. • Replace arms of pole 2 along East Lodi Avenue to connect PG&E Industrial Tap to PG&E Lodi-Industrial pole 2 and install new conductor between poles. • Modify the remaining northern portion of PG&E Industrial Tap (approximately 0.5 mile between East Sargent Road and East Victor Road/ SR 12), pole 14 to pole 21, with existing PG&E distribution underbuild. Remove 60 kV conductor and pole crossarms and top existing wood poles; northern portion of existing wood pole line will operate as distribution. • Operate the remaining west-east portion of PG&E Industrial Tap Line as PG&E Lockeford-Lodi No. 1 Line (preliminary name).
PG&E Lockeford-Lodi No. 2 60 kV Line	• Remove connecting PG&E Industrial Tap span	• Reframe pole 22 and install new down guy. Install horizontal guy wire from pole 22 to existing PG&E distribution pole across SR 12/East Victor Road and new down guy on distribution pole.
PG&E Remote-End Substations	• Remove or retire in place PG&E Bellota,	• Extend existing fiber lines at PG&E Bellota, Brighton, and Rio Oso substations

Component	Facilities Removed	Facilities Modified
(Bellota, Brighton, Lodi, and Rio Oso)	Brighton, Rio Oso line tuner/wave trap equipment and associated structures	• Install updated system protection schemes in existing control facilities of PG&E Bellota, Brighton, Lodi, and Rio Oso substations.
PG&E Clayton Hill Repeater Station	• None	• Install two new antennas on existing south communication tower within the station fence line.

Notes:

TSP = tubular steel pole

3.3.3.1 PG&E Lockeford Substation

PG&E Lockeford Substation at 12861 East Kettleman Lane has been in operation as a substation since 1948 in an unincorporated area within San Joaquin County. Refer to Figure 3.3-1a for the existing aerial view. The substation will be modified with a reconfigured 230 kV ring bus and associated modifications to accommodate the new 230 kV lines. Modified and new electric equipment will include 230 kV disconnect switches, instrument transformers, protective relaying, metering and control equipment, remote SCADA equipment, telecommunication fiber extension, telemetering equipment, an auxiliary alternating current and direct current (AC/DC) power system, an electric grounding system, and underground conduits or trench systems.

PG&E Lockeford Substation's existing 60 kV, 115 kV, and 230 kV facilities are not expected to be modified beyond activities related to the 230 kV expansion and updating the 60 kV system protection scheme with the reconfiguration of PG&E Lockeford-Industrial Line to PG&E Lockeford-Lodi No. 1 Line (preliminary name), which will likely include replacing the relay protection package and installing two new panels.

No substation components are expected to be removed or abandoned to complete the project. The existing power and transmission facilities within the substation include terminals, poles, and a control enclosure with the tallest existing structures (existing poles connecting to their respective terminals) at approximately 100 feet above the ground.

Approximately 10.2 acres are fenced on two parcels (5126022 and 5126023), creating the approximately 20.04-acre property owned in fee by PG&E (Figure 3.3-1a). The existing perimeter substation fence line encloses a western side yard and the 60 kV, 115 kV, and 230 kV facilities on approximately 2.9 acres and approximately 7.3 acres, respectively. The perimeter gray chain-link fence is approximately 10 feet tall with three strands of barbed wire along the top. Access to the western side yard and central yard is through two separate vehicle gates with entrances along East Kettleman Lane.

The existing 230 kV ring bus of approximately 1.25 acres is proposed to be effectively doubled, creating a four bay breaker-and-a-half (BAAH) configuration to accommodate the new 230 kV lines. Refer to Figure 3.3-1b for the proposed aerial view. The installation of two 230 kV bays will create four 230 kV terminals for the new transmission lines in the northeastern portion of the substation. Two new 230 kV terminals will accommodate the extended PG&E Brighton-Bellota 230 kV Line from the east and two new 230 kV terminals will accommodate the new PG&E Lockeford-Thurman 230 kV Lines to the west. The substation's existing 230 kV yard will be expanded approximately 21 feet east, approximately 143 feet north, then approximately 708 feet west (measured from the new northeast corner of the substation) to accommodate a 230 kV BAAH bus configuration, and new control and battery enclosures.

The new 230 kV aboveground bus support and dead-end steel structures will include equipment that will range in height from approximately 16 feet to 55 feet, with concrete foundations installed to approximately 28 feet below ground. Refer to Figure 3.3-1c for the proposed profile view of one bay looking north. Refer to Figure 3.3-1d for the proposed profile view looking west of the existing two bays and the proposed two bays. Each adjacent bay is approximately 53 feet by 384 feet with vehicle access of

approximately 16 feet around the new 230 kV bays. The 230 kV bays have the approximately same design dimensions as the existing 230 kV bay and terminals for PG&E Rio Oso-Lockeford and Lockeford-Bellota lines immediately to the south of the new 230 kV bay location. An underground conduit system is expected to be buried approximately 3 to 5 feet deep. The existing ground grid will be evaluated during final design's grounding system study and may be augmented with additional buried copper wires, which typically are placed in an approximately 10-foot by 10-foot grid, buried approximately 18 inches within the substation footprint.

The components of the 230 kV Bus 1 and Bus 2 extension to accommodate the Bus 3 and Bus 4 bay addition include:

Bay X. A new 230 kV BAAH bay, with three 230 kV circuit breakers, will be installed for the new 230 kV lines. The circuit breakers will be mounted to new concrete pads and connected to the existing Bus 1 and Bus 2 using conductor and tubing. Minor modifications to voltage transformers and bank positions will occur within the existing Bus 1 and Bus 2.

- Install eighteen single-phase 230 kV line coupling capacitor-type voltage transformers (CCVTs) on single-phase steel support structures and associated foundations. Three CCVTs will be installed on each connecting single-circuit transmission line for line voltage automatics and relaying. Line traps may be required for protection as determined during final design.
- Install two single-phase (C-phase only) 230 kV bus CCVTs and associated foundations, to be located, one each, on the existing 230 kV Bus 1 and Bus 2.
- Relocate the existing 230 kV PG&E Lockeford-Bellota (and change name to PG&E Lockeford-Bellota No. 1 Line) position in Bay 1 to be adjacent to a new 230 kV circuit breaker.
- Relocate existing 230/60 kV Bank 3 position in Bay 1 to be adjacent to the PG&E Lockeford-Bellota No. 1 Line position.

New 230 kV Circuit Breaker and Disconnect Switch. A new 230 kV circuit breaker will be installed for each new transmission line. The circuit breaker will be mounted to a new concrete pad and connected to the existing bay using conductor and tubing. New disconnect switches allow for electrical isolation for operating and maintenance purposes.

- Install eight 230 kV power circuit breakers (sulfur hexafluoride [SF_6] gas type; rated 230 kV, 2,000 amperes (A) continuous, 40 kilo ampere interrupting capacity [kAIC]) and associated foundations with two sets of current transformers per bushing.
- Install fifteen 230 kV 2,000 A air disconnect switches for circuit breaker isolation (center side break, manually operated) and associated foundations.
- Install six 230 kV 2,000 A air disconnect switches for line disconnect (vertical break, manually operated) and associated foundations.

Take-off Structure. A new H-frame take-off structure will terminate each new line inside the substation.

- Install three double-bay 230 kV switch and dead-end/pull-off H-frame structures and associated foundations, to interface with the new 230 kV lines entering the station.
- Install one double-bay 230 kV dead-end/pull-off H-frame structure and associated foundation, to connect the BAAH bays to the line terminal dead-end structures.

Lighting. New permanent structure lighting that is consistent with the existing Bus 1 and Bus 2 lighting will be installed at Bay X. The battery and control enclosures will have exterior entrance lighting consistent with the existing control enclosure. Outdoor lighting will include nonglare or hooded fixtures and directional lighting. The outdoor lighting will be operated as needed to support security technology and safety during unplanned work at night or low-light conditions where directional lighting is needed to improve safe access or work conditions.

Fiber Optic Cable. The new fiber optic cable, which will be installed in the top conductor position of both new transmission lines into PG&E Lockeford Substation, will be routed into the substation using a new underground conduit during final design. On the last transmission line structure for each line outside the substation W1 and E23, the fiber optic cable will be installed down the structure connecting to an underground conduit between approximately 3 feet and 5 feet below the ground in 4-inch conduit. The conduit will convey the cable into the substation, where it continues underground to the new control enclosure. The fiber optic cable is needed for facilities communication during operation.

Control and Telecommunication Equipment. Additional protection, control, and telecommunication equipment—including AC/DC panels, lighting, and climate/ventilation control—will be mounted in new equipment racks that will be required for the new 230 kV facilities. The addition of new 230 kV facilities requires additional control and telecommunication equipment to support its operation. The new control enclosure (approximately 128 feet by 16 feet by 12 feet) will be constructed to the west of the new 230 kV bays on a concrete pad. The enclosure's exterior and sloped roof will be steel sheeting. The equipment racks will be installed in a new control enclosure and replaced 230 kV equipment will be removed from the existing control enclosure, which also contains 60 kV and 115 kV equipment. A dedicated battery enclosure (approximately 34 feet by 16 feet by 12 feet) will be constructed to the west of the new 230 kV facilities on a concrete pad and covered in steel sheeting with a sloped roof. Both new enclosures will include a heating, ventilation, and air conditioning (HVAC) system of typical specifications.

An existing AT&T fiber line located at PG&E Lockeford Substation will be extended on existing structures at the street, or will be extended from within the substation and to the new control enclosure. The fiber line extension will occur using existing aboveground structures and will have a similar appearance to existing fiber lines along East Kettleman Lane and within PG&E Lockeford Substation. The fiber line is needed for facilities communication during operation.

Stormwater Retention Basin and Drainage Ditch. The existing substation retention basin is approximately 7,500 square feet with a connecting concrete stormwater drainage ditch of approximately 450 feet. The existing substation retention basin will be expanded by approximately 2,742 square feet, for a total area of approximately 10,242 square feet to collect stormwater from the expanded substation footprint. Approximately 50 feet of the existing concrete stormwater drainage ditch will be removed where the basin is expanded to the east and the modified connection between the ditch and basin will be stabilized with riprap. The existing concrete stormwater drainage ditch will be replaced in-kind and extended north by approximately 134 feet to align with the eastern edge of the new 230 kV bay footprint.

Interior Substation Vehicle Access. The existing interior access within the substation's west side yard will be improved for all-weather access and connected through a new interior vehicle gate into the central yard allowing an alternate, all-weather access to the new 230 kV components from East Kettleman Lane. The approximately 780-foot length of the approximately 15-foot-wide existing interior access will be bladed (approximately 0.35 acre of temporary ground disturbance expected) to create a more-level surface and rocked for all-weather access.

Substation Exterior Fence Line. The substation fence line will be expanded to include approximately an additional 2.32 acres on the northern and eastern sides of the currently fenced area to provide facility security and a public safety barrier. Approximately 2.17 acres will accommodate the two new 230 kV bays, vehicle path, extended stormwater drainage ditch, and control enclosure on a northern portion of the existing substation property. On an eastern portion of the existing substation property, the fence line will be expanded by approximately 0.15 acre to enclose the expanded retention pond. Approximately 2.65 acres of temporary ground disturbance is expected for the substation expansion. The length of new fence will be approximately 1,330 feet. During operation, the permanent fence line will enclose the reconfigured 230 kV ring bus and associated permanent modifications for a total fenced footprint of approximately 12.6 acres. The existing exterior fence will be replaced in-kind with the new fence sections to meet PG&E standards to replace the existing fence if more than approximately 10% is being modified.

Table 3.3-3 lists approximate metrics of proposed substation components. Also refer to Figure 3.3-1b, Figure 3.3-1c, and Figure 3.3-1d.

Table 3.3-3. Approximate Preliminary Metrics of Modified PG&E Lockeford Substation Components

Component[a]	Quantity	Approximate Preliminary Metrics
230 kV Circuit Breaker	8	16′ H x 12′ L x 5′ W
230 kV Bus Support Structure	8	20′ H
230 kV Bus Support Structure	24	9′ H
230 kV Disconnect Switch	21	Mounted on structures
230 kV Disconnect Switch Structure	21	7′-6″ H
230 kV CCVT	20	12′ H
230 kV CCVT Structure	20	9′ H
H-Frame Take-Off Structure (2-bay)	3	55′ H x 53′ W
H-Frame Take-Off Structure (2-bay)	1	45′ H x 53′ W
Bay X Lighting	#	In-kind with existing bay lighting
Control Building	1	79′ L x 15′-4″ W x 12′ H
Battery Building	1	34′ L x 15′-4″ W x 12′ H
Concrete Foundation (structures and buildings)	79	736 yd^3
Fiber Optic Cable (underground conduit)	4	1,000 feet
Stormwater Retention Basin	modified	2,742 square feet modification
Stormwater Drainage Ditch	modified	Replacement in kind with 84-foot extension (net)
Interior Vehicle Access and Interior Gate between Existing Substation Yards	modified within existing western yard	780-foot length x 15-foot width
Substation Fence	modified and replaced	3,150 feet of fence replaced and expanded to 3,385 feet

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

′ = foot (feet), ″ = inch(es), H = height, L = length, W = width, yd^3 = cubic yard(s)

New steel structures will be made from galvanized steel. Equipment typically will be American National Standards Institute (ANSI) 70 light gray, per PG&E and industry standards. The control enclosure, battery enclosure, and nonsteel substation equipment will be a nonreflective neutral gray color. New fence material is expected to have a similar finish to the existing gray chain-link fence with three strands of barbed wire along the top.

The expanded 230 kV area within the existing substation will incorporate outdoor lighting for safety and security. Design and layout for new outdoor lighting will integrate nonglare or hooded fixtures and directional lighting. The new lighting will be operated as needed to support security technology and safety during unplanned work at night or in low-light conditions when directional lighting improves safety for access and work.

3.3.3.2 PG&E Brighton-Bellota 230 kV Transmission Line

The existing overhead single-circuit PG&E Brighton-Bellota 230 kV Transmission Line is approximately 24.3 miles long and is on the west side of lattice steel towers between PG&E Brighton and PG&E Bellota substations. From approximately 8.4 miles north of PG&E Bellota Substation, the line will be extended from an existing span to loop into PG&E Lockeford Substation as a double-circuit 230 kV transmission line

to create a portion of the new 230 kV source identified by CAISO (refer to Figure 3.1-1). The new loop line length will be approximately 3.8 miles and will be located to the north of the existing double-circuit PG&E 230 kV transmission line (Rio Oso-Lockeford and Lockeford-Bellota).

The span of the existing PG&E Brighton-Bellota Line will be dead-ended on a new TSP (E1) that will begin the line extension to the west into PG&E Lockeford Substation. The existing conductor will be used and spliced to a new conductor installed after Structure E1 (refer to Figure 3.5-1). The extension of the PG&E Brighton-Bellota 230 kV Line, including this new TSP, is described in Section 3.3.4.1.

The existing line is not expected to be modified otherwise. The existing facility will operate with the extension as PG&E Brighton-Lockeford 230 kV Line and PG&E Lockeford-Bellota No. 2 230 kV Line when the project is complete. The PG&E Brighton-Bellota Line name will be retired.

3.3.3.3 PG&E Rio Oso-Lockeford 230 kV Line/PG&E Lockeford-Bellota 230 kV Line – Lockeford Terminal Structure Replacement

The existing overhead single-circuit PG&E Rio Oso-Lockeford 230 kV Line is approximately 19.8 miles long between PG&E Rio Oso and PG&E Lockeford substations. The existing overhead single-circuit PG&E Lockeford-Bellota 230 kV Line is approximately 12.3 miles long between PG&E Lockeford and PG&E Bellota substations. At the eastern end of the project, where the existing lines turn west toward PG&E Lockeford Substation, on an existing double-circuit 230 kV lattice, the PG&E Rio Oso-Lockeford Line is in the north position and the PG&E Lockeford-Bellota Line is in the south position (refer to Figure 3.3-1a and Figure 3.5-1). Structure RO1 is the last structure before PG&E Lockeford Substation. RO1 will be relocated approximately 85 feet north of the existing structure to reduce the current approximately 30-degree angle (refer to Figure 3.3-1b). The reduction in angle is proposed as an improved design for this portion of the existing 230 kV facilities that will be reconfigured as part of the substation expansion for the new 230 kV lines. The existing dead-end approximately 105-foot-tall lattice steel tower is expected to be replaced with a dead-end TSP of approximately the same height. The expected pole diameter dimension ranges at top, bottom, and excavation are common to the other new proposed 230 kV tubular pole structure types discussed in Section 3.3.4.1 and detailed in Table 3.3-4. The existing conductor to RO1 will not be replaced, but will be moved from the existing structure to the new structure and retensioned.

The relocation of PG&E Lockeford-Bellota 230 kV Line within PG&E Lockeford Substation is discussed in Section 3.3.3.1 (refer to Figure 3.3-1b and Figure 3.3-1d). With the construction of the new PG&E Brighton-Bellota 230 kV loop into PG&E Lockeford Substation, PG&E Lockeford-Bellota will be renamed for operation as PG&E Lockeford-Bellota No. 1 Line. The south position of the new 230 kV loop between PG&E Lockeford and PG&E Bellota substations will operate as PG&E Lockeford-Bellota No. 2 Line.

3.3.3.4 LEU Industrial Substation

LEU Industrial Substation was constructed originally in 1991 and is located on a 7.98-acre parcel (04931008) owned by the City of Lodi at 1215 East Thurman Road, as shown on Figure 3.3-2a. A City of Lodi well tank and pump station on the same parcel south of LEU Industrial Substation share a common paved access road from East Thurman Road, but it is not a part of the project. Currently, the existing substation fence line encloses its 60/12 kV facilities on approximately 3.50 acres of the parcel. The existing substation includes a 60 kV substation yard, three distribution 60/12 kV transformers, 12 kV distribution feeders, a control enclosure, and an approximately 125-foot by 175-foot laydown yard.

The existing LEU Industrial Substation will be modified to interconnect with the new LEU Guild Substation's 60 kV bus. The LEU 60 kV interconnection will be constructed within the existing LEU Industrial Substation property (refer to Figure 3.3-2b).

Minor modifications within LEU Industrial Substation will include phase transposition of existing power line facilities, power line terminations changing 60 kV feeds, installation of single-circuit 60 kV monopoles, expansion of the existing ground grid system, replacement of the existing eastern perimeter fence, and installation of underground conduits connecting LEU Industrial Substation's control enclosure with LEU

Guild Substation's protection and control enclosure. LEU Industrial Substation's existing eastern perimeter fence (approximately 400 feet) will be replaced by a common chain-link fence with the LEU Guild Substation to the east. An approximately 10-foot-tall fence consisting of approximately 3/8-inch wire mesh with approximately 1 foot of V-shaped barbed wire at the top will be installed where fencing is replaced.

The existing LEU Industrial Substation 60 kV bus will be interconnected with the new LEU Guild Substation 60 kV bus through the new LEU Guild-Industrial 60 kV Lines (LEU Guild-Industrial No. 1 60 kV Line and No. 2 60 kV Line). The lines will connect to two existing substation 60 kV buses each through a single-circuit 60 kV monopole approximately 65 feet high. The pole will have an approximately 4-foot diameter and approximately 20-foot drilled pier foundation.

A new telecommunication network will connect LEU Industrial and Guild substations to allow communication between substations for operation. Each of the two underground communication cables connecting the new LEU Guild Substation protection and control enclosure to the existing LEU Industrial Substation control enclosure will be approximately 315 feet long. Fiber optic cable will transition underground from each control enclosure in approximately 4-inch conduits at a minimum of approximately 2 feet below grade. The underground conduit will hold the 750 thousand circular mils (kcmil) aluminum, 15 kV, insulated or similar conductor. The LEU Industrial Substation SCADA information is transmitted through the City of Lodi's fiber loop through an RS900 converter. SCADA/remote terminal units for both the 60 kV and 12 kV equipment report to LEU's SCADA masters located at the Electric Utility Operations Center, with backup at the Operations Center at LEU Killelea Substation.

The existing LEU Industrial Substation copper ground system will be expanded to approximately 1,600 square feet with a minimum of 2/0 copper buried a minimum of approximately 24 inches below subgrade to create additional facility grounding. The expansion will occur in the area of the new 60 kV monopoles within the existing fence line. Additional, minimum 5/8-inch diameter by approximately 8-foot-deep copper-bonded steel ground rods will be installed as the ground model and the Institute of Electrical and Electronics Engineers (IEEE) Standard 80 requires.

Two spans of LEU Guild-Industrial No. 1 Line and No. 2 Line will connect to two existing 60 kV terminals currently connected with PG&E Lockeford-Industrial and PG&E Industrial Tap 60 kV lines to reuse the 60 kV terminals with power from the new source.

Two new single-circuit 60 kV monopoles (approximately 65 feet in height) will be installed within the existing LEU Industrial Substation footprint to connect to the new feed from LEU Guild Substation. These poles will support the 1,113 kcmil, 54/19-strand aluminum steel-supported conductor, code name "Finch," from LEU Guild Substation. The new conductor will be installed between the 60 kV terminals in LEU Guild and LEU Industrial substations on the new monopoles creating LEU Guild-Industrial No. 1 Line and No. 2 Line, which will be approximately 173 feet and approximately 267 feet in length, respectively. Table 3.3-4 lists approximate metrics of substation modification components.

Table 3.3-4. Approximate Preliminary Metrics of LEU Industrial Substation Components

Component[a]	Quantity	Approximate Preliminary Metrics
60 kV Monopole Structure	2	65 feet tall
60 kV Monopole Foundation	2	4-foot-diameter x 20-foot-length Pier9.308 yd^3 per foundation
LEU Guild-Industrial No. 1 Line and No. 2 Line	6	1,113 kcmil, 54/19-strand aluminum steel-supported conductor, code name "Finch", approximately 173 feet and 267 feet
Fiber Optic Cable Conduit	2	4-inch conduit x 315 feet length
Fiber Optic Cable	2	750 kcmil aluminum, 15 kV, insulated conductor

Component[a]	Quantity	Approximate Preliminary Metrics
Copper Ground System	1,600 square feet	2/0 copper buried a minimum of 24 inches below subgrade with minimum 5/8-inch diameter by 8-foot-deep copper-bonded steel ground rods

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by City of Lodi requirements, final engineering, and other factors and are likely to change.

New monopole structures will be galvanized steel. The new area within the existing substation will incorporate outdoor lighting for safety and security similar to existing outdoor lighting. Design and layout for new outdoor lighting will integrate nonglare or hooded fixtures and directional lighting. The new lighting will be operated as needed to support security technology and safety during unplanned work at night.

All new LEU Industrial Substation components will be completed as one phase, prior to the 60 kV load transfer to the 230 kV feed. When the PG&E 230 kV source is operating and feeding LEU through LEU Guild Substation into LEU Industrial Substation, the PG&E 60 kV feed into LEU Industrial Substation will be cut over to the new LEU Guild-Industrial No. 1 60 kV Line and No. 2 60 kV Line.

PG&E Lockeford-Industrial Line will be removed from service prior to the final 230 kV construction activities to accommodate reuse of a portion of its alignment for the new PG&E 230 kV line. The PG&E 60 kV line will be removed when there is sufficient time to complete construction on the new 230 kV and place it in service during lower load requirement months for the existing service. Typically, during approximately November to March annually, the average and forecasted LEU load requirements can be served by two PG&E 60 kV lines. If it appears that the 230 kV feed cannot be placed into service before LEU load requirements increase after March, the removal of the third PG&E 60 kV line will be delayed until the next single PG&E line outage period, which could be the following November to March. A 60 kV bus outage at LEU Industrial Substation and a 60 kV bus outage at PG&E Lockeford Substation will be required to disconnect and remove PG&E Lockeford-Industrial Line from within the north side of the substation. When PG&E removes a 60 kV line termination from LEU Industrial Substation, LEU will remove the respective line drop from the line termination to its 60 kV switch. These LEU switches will be connected to the new LEU Guild-Industrial 60 kV Line feeds as part of construction.

To cut over to the new 60 kV source after the new 60 kV lines from LEU Guild Substation are ready for operation, a 60 kV bus outage at LEU Industrial Substation and a 60 kV bus outage at PG&E Lockeford and Lodi substations will be required. The two remaining existing 60 kV feeds (PG&E Industrial Tap and PG&E Lodi-Industrial lines) from PG&E to LEU Industrial Substation will no longer be required with the proposed 230 kV feed in operation. The two PG&E lines will be disconnected and removed from within the north side of LEU Industrial Substation.

3.3.3.5 LEU 12 kV Feeder Lines

The overhead existing LEU 12 kV line segment that extends south from PG&E Lockeford-Industrial pole 4 to an existing LEU wood pole is not in service and the span will be removed as part of the project. Refer to Figure 3.3-2a and Figure 3.3-2b.

An existing LEU 12 kV line extends from LEU Industrial Substation as an underbuild on PG&E Lockeford-Industrial Line to a customer across South Guild Avenue. The feeder line currently is underbuilt on PG&E Lockeford-Industrial (pole 2 to pole 6). The feeder line is underground between PG&E Lockeford-Industrial pole 2 and LEU Industrial Substation, and between its position on PG&E Lockeford-Industrial pole 6 and the LEU customer. This LEU feeder is a backup service to the LEU customer. This project will require an LEU 12 kV feeder outage to the LEU customer warehouse industrial facility on South Guild Avenue at East Thurman Road to relocate a portion of the feeder to an underground alignment. The project will not interrupt LEU's primary service to the LEU customer.

The overhead line portion will be replaced in an underground configuration on the customer's property. The line is being replaced underground to allow continued secondary service to the LEU customer and the PG&E Lockeford-Industrial 60 kV ROW to be reused by the new PG&E 230 kV line. Approximately 750 feet of the feeder line will be relocated underground from its aboveground position on PG&E Lockeford-Industrial pole 4 to pole 6 within the same utility corridor. Two pull boxes (or vaults) will be installed as part of the underground configuration. Pull boxes will be precast polymer concrete and traffic rated. No lighting will be installed for these facilities.

The western end of the relocated underground line will connect on the east side of South Guild Avenue to the existing LEU wood pole on the south side of the warehouse driveway, which is a separate existing LEU 12 kV line from LEU Industrial Substation. This existing LEU 12 kV line following South Guild Avenue south from the LEU 12 kV wood pole south of the warehouse driveway and then west underground in East Thurman Road to LEU Industrial Substation will not be modified past the LEU wood pole. The existing lines and modifications are shown on Figure 3.3-2a and Figure 3.3-2b.

The feeder line will be relocated underground within one approximately 6-inch conduit to hold the three phases of the conductor and be buried a minimum of approximately 4 feet deep and a maximum of approximately 10 feet deep. A 12 kV underground feeder riser will be installed at the end of the underground conduit on the existing LEU wood pole. Approximate preliminary metrics of the 12 kV line conversion are shown in Table 3.3-5.

Table 3.3-5. Approximate Preliminary Metrics of LEU 12 kV Feeder Line Components

Component[a]	Approximate Quantity	Approximate Preliminary Metrics
Underground conduit	750 feet	6-inch diameter conduit
Underground cable	750 feet	100 kcmil 600 volt cross-linked polyethylene
Pull box	2	Precast polymer concrete, traffic rated, 3 feet x 5 feet
Feeder riser	20 feet	cable cover attached to wood pole

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by City of Lodi requirements, final engineering, and other factors and are likely to change.

The existing LEU 12 kV underbuild on PG&E Lockeford-Industrial pole 2 to pole 4 along the north end of LEU Guild Substation will be removed as part of the PG&E line removal. The existing 12 kV underground portion of the feeder line between pole 2 and LEU Industrial Substation will be retired in place after the aboveground portion is removed. With the LEU 12 kV line replaced underground and connected to another portion of LEU's 12 kV system, the existing 12 kV line is not needed and will be removed or retired in place.

3.3.3.6 PG&E 12 kV Service Line Extension

An existing PG&E 12 kV line currently terminates on a wood pole (PG&E 12 kV) along the eastern side of South Guild Avenue approximately 175 feet north of East Lodi Avenue (refer to Figure 3.3-2a). The 12 kV line will be extended southwest from the pole by approximately 550 feet underground in franchise to create a secondary permanent electric service into the new PG&E Thurman Switching Station (refer to Figure 3.3-2b). Currently, two potential routes are identified to either side of South Guild Avenue, and either route could be used depending on whether the line crosses the road to the west at the existing pole, or after the line is installed under the railroad tracks. Any portion of the 12 kV extension parallel to the road and then crossing under the railroad tracks would be installed using HDD at a 90-degree angle to the tracks. PG&E will conform with current UPRR *Guidelines for Horizontal Directional Drilling Under Union Pacific Railroad Right of Way* when finalizing the 12 kV extension design in preparation for applying for a crossing permit. Currently, the PG&E 12 kV extension is expected to be installed at least 15 feet underground when crossing under and within 30 feet of the railroad tracks. These depths conform with the

available UPRR *Wireline Installation Engineering Specifications* and its reference to the 2005 *Interim Guidelines for Horizontal Directional Drilling Under Union Pacific Railroad Right of Way.* Any portion of the 12 kV extension crossing South Guild Avenue east to west would be installed using an open trench.

Table 3.3-6 shows the approximate preliminary metrics of the 12 kV line extension.

Table 3.3-6. Approximate Preliminary Metrics of PGE's 12 kV Service Line Extension Components

Component[a]	Approximate Quantity	Approximate Preliminary Metrics
Underground conduit	550 feet	4-inch diameter
Rubber cables	550 feet	1/0A ethylene propylene rubber cables
Pull box (typical #5 box)	1	3 feet wide, 5 feet long, 3.5 feet deep
Cover for conduit on take-off structure	20 feet	Standard cable cover attached to wood pole

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

3.3.3.7 PG&E Lockeford-Industrial 60 kV Line

PG&E Lockeford-Industrial 60 kV Line is an approximately 6-mile wood pole line connecting PG&E Lockeford Substation with LEU Industrial Substation. Refer to Figure 3.1-1 and Figure 3.3-2a. Approximately 0.40 mile of the line is within the City of Lodi and the remaining length is within San Joaquin County. The wood poles are approximately 60 to 90 feet in length, have a diameter at base of approximately 19 inches, and are direct bury approximately 9.5 to 11 feet deep. Some spans have underbuilt distribution and/or telecommunication lines and these poles typically are 10 to 15 feet taller than poles without underbuild. The line is being replaced by the PG&E 230 kV source to LEU and its connection to LEU Industrial Substation is no longer needed. The eastern portion of the line will be connected with a portion of PG&E Industrial Tap to reconfigure PG&E's three 60 kV lines after being disconnected from LEU Industrial Substation. The three PG&E 60 kV lines are being reconfigured to provide a PG&E Lockeford-Lodi No. 1 60 kV line (preliminary name) which will have increased capacity, allowing more reliable service to the PG&E 60 kV network in northern San Joaquin County.

PG&E Lockeford-Industrial 60 kV Line will be modified with approximately 0.54 mile of line removed at its western end into LEU Industrial Substation. Approximately 0.54 mile,10 spans and 9 poles (pole 1 to pole 9), will be removed along with the existing LEU 12 kV feeder lines and Comcast telecommunication line underbuilt and connecting to joint utility poles (refer to Figure 3.3-2b). The LEU 12 kV feeder lines will be removed where not in service or relocated underground to continue LEU customer service (refer to Section 3.3.3.5). The initial activities on PG&E Lockeford-Industrial will occur when PG&E can take a single line 60 kV outage (typically November to March annually when LEU load can be provided by two existing PG&E 60 kV lines). Initial activities on PG&E Lockeford-Industrial will be followed by the remaining portion of the new PG&E 230 kV line being constructed within the existing utility corridor.

After the 230 kV line is in service and the other two PG&E 60 kV lines can be removed from service to LEU Industrial Substation, the remaining portion of PG&E Lockeford-Industrial (approximately 5.46 miles) from PG&E Lockeford Substation will connect to the nearby PG&E Industrial Tap. A new span (approximately 115 feet) across the railroad tracks will connect PG&E Lockeford-Industrial pole 10 at the west end of East Sargent Road to PG&E Industrial Tap pole 13. PG&E Lockeford-Industrial pole 10 will be replaced in kind with weatherized light-duty steel poles. The new pole on the eastern side of the new span will be replaced in kind at approximately 85 feet in length, have a diameter at base of approximately 22 inches, and have a direct-bury depth of approximately 13.5 feet. On this replaced pole, new down guy wire will be installed to the east. The new pole is expected to be located typically within approximately 5 feet from the existing pole and in-line with the existing power line alignment. Light-duty steel poles have a surface treatment designed to render the appearance of natural weathering (corten). This pole

design provides superior protection from wildfires, pole rotting, and woodpecker damage when compared to wood poles. Refer to Figure 3.3-3a.

Framing will be replaced on PG&E Lockeford-Industrial pole 10 to change from an angle type (DV-DE) to a through type (DV-DJ). When PG&E Industrial Tap and PG&E Lodi-Industrial lines are disconnected from LEU Industrial Substation and connected to one another, the reconfigured line will operate as PG&E Lockeford-Lodi No. 1 Line (preliminary name). Refer to Figure 3.3-3b. Table 3.3-7 shows the approximate preliminary metrics of the Lockeford-Industrial 60 kV components.

Table 3.3-7. Approximate Preliminary Metrics of PG&E Lockeford-Industrial 60 kV Line Components

Component[a]	Quantity	Approximate Preliminary Metrics
Light-duty steel pole, corten finish	1	85 feet aboveground 22-inch diameter at base Direct-bury depth of approximately 13.5 feet
Down guy wire	2	25 feet, 7/16 inch galvanized steel
DV-PJ Framing	1	Single set of new framing
715 all aluminum conductor	3	115-foot conductor length

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

3.3.3.8 PG&E Lodi-Industrial 60 kV Line

PG&E Lodi-Industrial 60 kV Line is an approximately 0.9-mile wood pole line within the City of Lodi connecting PG&E Lodi Substation with LEU Industrial Substation. Refer to Figure 3.1-1 and Figure 3.3-2a. The wood poles are approximately 60 to 85 feet in length and are direct bury approximately 9.5 to 11 feet deep. The connection into LEU Industrial Substation will be removed when the new 230 kV feed is operating, and the 60 kV feed is no longer needed. The western portion of the line will be connected with a portion of PG&E Industrial Tap to reconfigure PG&E's three 60 kV lines after being disconnected from LEU Industrial Substation. The three PG&E 60 kV lines are being reconfigured to provide a PG&E Lockeford-Lodi No. 1 60 kV line (preliminary name) which will have increased capacity, allowing more reliable service to the PG&E 60 kV network in northern San Joaquin County.

The existing wood pole outside of the substation (pole 1) will be removed. Pole 2 will have framing changed from an angle type (SV-PJ) to a through type (DV-PJ) and the existing down guy will be removed and not replaced. Pole 3 framing will change from SS-1 type to 3-HPD type. No changes will occur to the existing LEU underbuild on the PG&E Lodi-Industrial 60 kV Line. A new span of conductor will be installed from PG&E Lodi-Industrial pole 2 to PG&E Industrial Tap pole 2. The existing steel guy stub pole near 1303 East Lodi Avenue and the connecting horizontal guy wires to PG&E Lodi-Industrial pole 2 are expected to be removed as part of construction because they will not need to provide tension. Tension will be adjusted on the existing conductor between PG&E Lodi-Industrial pole 2 and pole 3. Refer to Figure 3.3-3b and Figure 3.5-1. When PG&E Lodi-Industrial Line is connected to PG&E Industrial Tap (which will be connected to the eastern portion of PG&E Lockeford-Industrial), the reconfigured line will operate as PG&E Lockeford-Lodi No. 1 Line (preliminary name). Table 3.3-8 shows the approximate preliminary metrics of PG&E Lodi-Industrial 60 kV components.

Table 3.3-8. Approximate Preliminary Metrics of PG&E Lodi-Industrial 60 kV Line Components

Component[a]	Quantity	Approximate Preliminary Metrics
3-HPD Framing	1	Set of new framing for pole 3
DV-PJ Framing	1	Set of new framing for pole 2
715 all aluminum conductor	3	63-foot conductor length

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

3.3.3.9 PG&E Industrial Tap 60 kV Line

The existing PG&E Industrial Tap 60 kV Line, approximately 0.97-mile long, connects PG&E Lockeford-Lodi No. 2 Line at SR 12/East Victor Road into LEU Industrial Substation. Refer to Figure 3.1-1, Figure 3.3-2a, Figure 3.3-3a, and Figure 3.5-1, page 24. The north end of the wood pole line starts at a PG&E Lockeford-Lodi No. 2 Line wood pole immediately north of SR 12/East Victor Road approximately 0.25 mile east of South Guild Avenue. From its north end, PG&E Industrial Tap continues south for approximately 0.50 mile before turning west along the north side of the railroad tracks, where it enters the City of Lodi and continues for approximately 0.47 mile into LEU Industrial Substation. The wood poles are approximately 55 to 85 feet in length and are direct bury approximately 8.5 to 10.5 feet deep. The approximately 0.5-mile length from south of PG&E Lockeford-Lodi No. 2 Line has underbuild distribution lines and these poles typically are taller.

As part of the proposed project, approximately 0.43 mile of PG&E Industrial Tap within the City of Lodi will be reconfigured to connect to segments of PG&E Lockeford-Industrial (to the east) and PG&E Lodi-Industrial (to the west) to create PG&E Lockeford-Lodi No. 1 60 kV Line (preliminary name) that will have increased capacity, allowing more reliable service to the PG&E 60 kV network in northern San Joaquin County. After the 230 kV feed is in service, PG&E Industrial Tap pole 13 will be connected by one new span to PG&E Lockeford-Industrial pole 10 at the western end of East Sargent Road. PG&E Industrial Tap pole 12 existing T-1 frame will be replaced with a T1-1A frame and pole 13 will be change from SV-PJ to DV-PJ framing type. A new down guy wire will be installed on existing pole 13 to the west. The final two spans of PG&E Industrial tap into LEU Industrial Substation will be disconnected. The existing wood pole outside of the substation (pole 1) will be removed. Pole 2 will have framing changed from the SV-DE angle type to a through type (DV-DJ) and the existing down guy will be removed and not replaced. Refer to Figure 3.3-3b. The existing PG&E Industrial Tap pole 2 along East Lodi Avenue will be connected by one new span to the adjacent PG&E Lodi-Industrial pole 2. No changes will occur to the existing LEU underbuild on the PG&E Industrial Tap 60 kV Line. The existing steel guy stub pole near 1303 East Lodi Avenue and the connecting horizontal guy wires to PG&E Industrial Tap pole 2 are expected to be removed as part of construction because they will no longer be needed to provide tension.

The approximately 0.5-mile length of PG&E Industrial Tap south from PG&E Lockeford-Lodi No. 2 Line will be removed because the 60 kV line length is no longer needed for the system. The existing wood pole tops will be removed leaving the line to operate as a PG&E distribution line. Refer to Figure 3.5-1. Table 3.3-9 shows the approximate preliminary metrics of PG&E Lodi-Industrial 60 kV components.

Table 3.3-9. Approximate Preliminary Metrics of PG&E Industrial Tap 60 kV Line Components

Component[a]	Quantity	Approximate Preliminary Metrics
Down guy wire	4	20 to 25-foot, 7/16" galvanized steel
T1-1A Framing	1	Set of new framing for pole 12
DV-PJ Framing	2	Set of new framing for pole 2 and pole 13
DV-DE Framing	1	Set of new framing for pole 22
Horizontal guy	2	86-foot 5-16" galvanized steel length, pole 22 to distribution pole across SR 12

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

3.3.3.10 PG&E Lockeford-Lodi No. 2 60 kV Line

The existing PG&E Lockeford-Lodi No. 2 60 kV Line, approximately 7.8 miles long, connects PG&E Lockeford and PG&E Lodi substations. PG&E Industrial Tap begins from PG&E Lockeford-Lodi No. 2 approximately 0.25 mile east of South Guild Avenue along SR 12/East Victor Road. Refer to Figure 3.1-1 and Figure 3.5-1, page 24. As part of the project, a horizontal guy wire will be installed on the PG&E Lockeford-Lodi No. 2 pole where PG&E Industrial Tap begins to support this angle pole (refer to PG&E Industrial Tap pole 22 on figures) before the PG&E Industrial Tap span removal. The horizontal guy wire will be installed to the south to an existing PG&E distribution pole to strengthen the operation of the PG&E Lockeford-Lodi No. 2 Line angle pole in preparation for the removal of the connecting PG&E Industrial Tap span. Where the new horizontal guy wire crosses SR 12/East Victor Road, the lowest point the span is expected to reach is approximately 37.5 feet aboveground on the southern edge of the road. Additionally, a new down guy will be installed on the south side of the existing PG&E distribution pole. As such, Caltrans may request PG&E to complete a Design Standard Decision Document to review alignment with the Caltrans policy as part of the encroachment permit application to modify PG&E's existing encroachment for the existing PG&E Industrial Tap span at this location. After PG&E Industrial Tap is removed from its position on pole 22, the pole will be reframed from a three-way vertical top (3WV-T) to double vertical deadend (DV-DE) framing for the angle turn of PG&E Lockeford-Lodi No. 2 (pole 22). Refer to Figure 3.3-3b.

3.3.3.11 PG&E's Remote-End Substations

Project activities at PG&E Lodi Substation will update the system protection scheme within the control room, likely replacing the relay protection package and installing two new panels, as needed for the reconfiguration of PG&E Lodi-Industrial 60 kV Line to operate as PG&E Lockeford-Lodi No. 1 60 kV Line (preliminary name). Related system protection scheme updates at PG&E Lockeford Substation for the operation of PG&E Lockeford-Lodi 60 kV Line No. 1 (preliminary name) are discussed in Section 3.3.3.1.

At PG&E Rio Oso, PG&E Bellota, and PG&E Brighton substations, new fiber lines will be extended from within the substations or from existing lines adjacent to the substations, and digital communication equipment will be installed for protection relays in the existing control facilities at the three substations to align with the connected 230 kV lines that are part of the proposed project. The existing line tuner/wave trap equipment and associated structures will be removed or retired in place since they will no longer be needed for communication when the new system is in operation. This existing telecommunication equipment is a relatively minor component of the equipment within each substation and will be a minor modification to the appearance of each substation. New telecommunication equipment installed as part of this project will replace the communication functions provided by existing line tuner/wave trap equipment. Figure 3.3-4 provides example photographs of existing line tuner/wave trap equipment that will be removed or retired in place.

3.3.3.12 PG&E Clayton Hill Repeater Station—South Tower

An existing approximately 90-foot microwave tower within PG&E Clayton Hill Repeater Station in unincorporated Contra Costa County will be modified as part of the project to create a communication path with PG&E Thurman Switching Station for operation. The four-sided self-supporting south tower currently has approximately six whip antennas (approximately 2-, 3-, 8-, or 10-foot height) and approximately five dish antennas (approximately 6- or 8-foot diameter) positioned on the upper portions of the tower, from approximately 36 feet to approximately 88 feet. Refer to Figure 3.3-5. Approximately two new 6-foot dish antennas will be installed at approximately 50 feet and approximately 80 feet on the northeast leg of the existing tower (right leg as viewed on figure). New waveguide cable will connect the new antennas along the tower leg and existing cable paths to the PG&E existing communication shelter within the repeater station. This new digital microwave path will deliver redundant communication into the new PG&E Thurman Switching Station in support of PG&E's system protection scheme. The addition of approximately two new antennas to an existing microwave tower with approximately 11 existing attachments is a minor modification to the appearance of the communication tower.

3.3.4 Proposed Facilities

The proposed project will include construction of the extension of the existing PG&E Brighton-Bellota 230 kV Line to create the new PG&E Brighton-Lockeford Line and PG&E Lockeford-Bellota No. 2 230 kV Line; the new PG&E 230 kV DCTLs, PG&E Lockeford-Thurman No. 1 Line and PG&E Lockeford-Thurman No. 2 Line; the new PG&E 230 kV Thurman Switching Station; the new PG&E Thurman-Guild No. 1 230 kV Line and PG&E Thurman-Guild No. 2 230 kV Line; the new LEU 230/60 kV Guild Substation; and the new LEU Guild-Thurman No. 1 60 kV Line and LEU Guild-Thurman No. 2 60 kV Line, as summarized in Table 3.3-10. Refer to Figure 3.1-1, Figure 3.3-1b, and Figure 3.3-2b. Refer to Figure 3.5-1 for additional individual line structure detail. The 230 kV facilities described are PG&E facilities with the exception of the new LEU Guild Substation and the LEU portion of the new Thurman-Guild Line (No. 1 and No. 2) from PG&E Thurman Switching Station.

Table 3.3-10. Types of Proposed Facilities to be Installed

Proposed Facilities	Description
PG&E Brighton-Lockeford Line and Lockeford-Bellota No. 2 Line	New PG&E double-circuit 230 kV extension of approximately 3.8 miles of PG&E Brighton-Bellota 230 kV Line with 23 new TSPs and conductor into PG&E Lockeford Substation.
PG&E Lockeford-Thurman No. 1 and PG&E Lockeford-Thurman No. 2 230 kV Transmission Lines	New PG&E double-circuit 230 kV line between PG&E Lockeford Substation and PG&E Thurman Switching Station by installing 49 new TSPs and conductor for approximately 6.8 miles.
PG&E Thurman Switching Station (230 kV)	New PG&E switching station on 5.75 acres to connect new 230 kV feed at Thurman Switching Station to the new LEU 230/60 kV Guild Substation and switch power from PG&E to LEU.
PG&E Thurman-Guild No. 1 and PG&E Thurman-Guild No. 2 230 kV Transmission Lines	New PG&E and LEU 230 kV lines between PG&E Thurman Switching Station and LEU Guild Substation, single span between 230 kV terminals, approximately 135 feet.
LEU Guild Substation (230/60 kV)	New LEU substation on 3.25 acres to receive PG&E 230 kV feed and transform 230 kV to 60 kV.
LEU Guild-Thurman No. 1 and LEU Guild-Thurman No. 2 60 kV Power Lines	New 60 kV lines between LEU Guild and LEU Industrial substations, two spans with one pole for each circuit between 60 kV terminals, approximately 180 feet.

3.3.4.1 PG&E 230 kV Transmission Lines, Transmission Line Extensions, and Structure Replacement

The proposed 230 kV transmission lines, PG&E Brighton-Bellota extension or loop (the new PG&E Brighton-Lockeford and PG&E Lockeford-Bellota No. 2), replaced structure on existing PG&E Rio Oso-Lockeford/ Lockeford-Bellota, new PG&E Lockeford-Thurman (No. 1 and No. 2), and new PG&E and LEU Thurman-Guild (No. 1 and No. 2), are expected to have several similarities and are described together with anticipated variations between lines identified.

The proposed project will include construction of new overhead double-circuit 230 kV transmission line segments measuring approximately 3.8 miles between the intersection point on PG&E Brighton-Bellota Line and PG&E Lockeford Substation, and approximately 6.8 miles between PG&E Lockeford Substation and PG&E Thurman Switching Station. PG&E and LEU Thurman-Guild Line will be two single spans between adjacent named station end points.

The extension of PG&E Brighton-Bellota Line originates approximately 0.5 mile northeast of the intersection of East Kettleman Lane and Atkins Road in unincorporated San Joaquin County. The new transmission line length will connect into the northeast corner of PG&E Lockeford Substation. The proposed new transmission line segment would be north of and generally parallel to an existing ROW of

the existing colocated PG&E Rio Oso-Lockeford/Lockeford-Bellota 230 kV Transmission Lines. PG&E Rio Oso-Lockeford/PG&E Lockeford-Bellota 230 kV Transmission Line's final structure (RO1) at PG&E Lockeford Substation will be relocated approximately 85 feet north of the current location on substation property. Refer to Figure 3.5-1 and Figure 3.3-1b.

The new PG&E Lockeford-Thurman Line route will exit PG&E Lockeford Substation on the northwest side of the substation. After proceeding west for approximately 0.24 mile, the route turns south and then southwest for approximately 0.87 mile, staying west of the channelized Bear Creek. The line would turn west for approximately 4.10 miles with two jogs to the northwest/north before turning north for approximately 1.21 miles. The line turns west and enters the City of Lodi after approximately 0.13 mile, continuing for another 0.34 mile to its termination within PG&E Thurman Switching Station. The single spans of PG&E and LEU Thurman-Guild 230 kV Lines, approximately 135 feet, will connect 230 kV terminals within the adjacent named end point stations within LEU Guild Substation. PG&E and LEU Thurman-Guild lines are expected to have the same conductor type as the other new 230 kV lines. Refer to Figure 3.5-1, Figure 3.3-1b, and Figure 3.3-2b.

Transmission line segments are expected to be constructed with self-supporting TSP monopole structures. TSPs typically are constructed using galvanized steel. Refer to Figure 3.3-6a for photographs of existing example TSP monopole structures.

PG&E Brighton-Bellota Line extension is expected to have an average span length of approximately 880 feet with approximately 23 structures. Two 230 kV circuits will be installed on the transmission line and will operate as PG&E Brighton-Lockeford Line and PG&E Lockeford-Bellota No. 2 Line, respectively. The new PG&E Lockeford-Thurman Line will be a double-circuit 230 kV line of approximately 6.8 miles in length and be supported by approximately 49 structures based on an anticipated average span length of approximately 720 feet. Longer or shorter spans may be required in certain locations to increase compatibility with existing land uses and/or to achieve required clearances at crossings as discussed in context with Table 3.3-12. Typical structure heights generally will range from approximately 110 to 170 feet (above the ground) to meet CPUC's General Order 95 (GO 95) clearance requirements and have a width at the base and at the top of approximately 3 to 7 feet and approximately 1 to 3 feet, respectively. The new structures will meet current raptor safety requirements. Exact heights will depend on span lengths and ground clearance requirements, which change with land uses (such as orchards, croplands, roadways, highways, and river crossings), topography, electrical clearances, and other design considerations.

Each monopole foundation will be a single drilled-shaft reinforced-concrete caisson. Typical excavations for structure foundations will range from approximately 6 to 9 feet in diameter and approximately 18 to 30 feet in depth; some foundations could be larger depending on site-specific geotechnical conditions. Final design may change the structure type, typical span length(s), and/or total number of structures.

Two circuits (each circuit consists of three conductors or wires) will be installed on each side of each structure. An all-aluminum conductor (ACC) with non-specular finish will be arranged vertically in three phases on each side of the transmission structures. Insulators will be hung in an "I" configuration. The design for each structure will adhere to CPUC's GO 95 and PG&E's *Overhead Transmission Line Design Criteria* (Document 068177, revision 14), as well as the design criteria developed for the project.

Structure types are expected to include dead-end and tangent structures with anticipated approximate dimensions detailed in Table 3.3-11. Figure 3.3-6b and Figure 3.3-6c illustrate typical dead-end and tangent TSP structures. Dead-end (or angle) structures are expected to have longer crossarm sets that may range between approximately 14 feet to approximately 18 feet 3 inches in length from the pole. Tangent (or in-line) structures typically will have three sets of crossarms that measure approximately 14 feet to approximately 14 feet 6 inches in length from the pole.

Table 3.3-11. Proposed 230 kV Structure Types with Approximate Anticipated Dimensions

Structure Type[a]	Average Height (ft)[b]	Range of Height (ft)[b]	Potential Maximum Height (ft) at 12 kV, 60 kV or 115 kV Crossings	Diameter (ft) at Pole Top, Base, and Excavation	Range of Excavation Depth (ft)
PG&E Brighton-Bellota Extension (Brighton-Lockeford and Lockeford-Bellota No. 2)					
Dead-End Monopole	131	120-140	145 (12 kV)	1-3, 3-7, 6-9	20-38
Tangent Monopole	137	120-155	165 (115 kV)	1-3, 3-7, 6-9	20-38
PG&E Rio Oso-Lockeford and Lockeford-Bellota (to be renamed to Lockeford-Bellota No. 1)					
Dead-End Monopole	105	n/a	n/a	1-3, 3-7, 6-9	20-38
PG&E Lockeford-Thurman No. 1 and No. 2 Double-Circuit Line					
Dead-End Monopole	129	120-135	165 (60 kV)	1-3, 3-7, 6-9	20-38
Tangent Monopole	130	120-155	150 (60 kV) 170 (substation)	1-3, 3-7, 6-9	20-38
PGE& and LEU Thurman-Guild No. 1 and No. 2 Double-Circuit Line					
Substation bay	Refer to PG&E Thurman Switching Station and LEU Guild Substation descriptions				

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC or City of Lodi requirements, final engineering, and other factors and are likely to change.

[b] Average and range exclude taller structure heights required when adjacent to PG&E Lockeford Substation (substation) or for clearance over PG&E 115 kV, 60 kV, and 12 kV lines. Refer to Potential Maximum Height column for anticipated adjacent structure height at line crossings and exiting the substation.

Ft = foot/feet; n/a = not applicable

The minimum ground conductor clearance (MGCC) will be designed in accordance with PG&E's *Overhead Transmission Line Design Criteria* (Document 068177, revision 14); the applicable criterion specifies an MGCC of 29 feet when the wire is at emergency conditions (185 degrees Fahrenheit [°F]) and 32 feet at normal conditions (60°F). The PG&E design standard for MGCC includes 27 feet, as specified in GO 95, and a 2-foot vertical buffer. In some conditions, the designed conductor ground clearance will exceed the minimum to provide safe clearances over existing orchards, crops, levees, rivers, railways, interstates, utility lines, or other similar site-specific considerations.

PG&E Thurman–Lockeford structures also will support two optical fiber ground wires (OPGW) in the two top cable positions above the phase conductors. The OPGW will serve as a communication system between PG&E Lockeford Substation and PG&E Thurman Switching Station. For PG&E Brighton-Bellota extension, two Alumoweld shieldwires (7 No. 8 type) will be used. The single set of crossarms for the communication wires are expected to be approximately 7 feet in length from the pole.

The project is designed to consider other utilities, including electric power, distribution (also service or feeder) lines; and existing infrastructure, including railroads, canals, and irrigation systems. In locations where the new 230 kV line will cross over existing PG&E power lines, including outside PG&E Lockeford Substation, the structures will be at the upper end of the approximate height and pole widths listed previously. New underbuild on existing or new lines is not anticipated.

Existing infrastructure that may be susceptible to induced current is metallic in nature and as part of final design of the CPUC-approved transmission line route, PG&E will review parallel metal infrastructure such as pipeline and railroads. Typical design considerations include arranging the conductor phasing to minimize induction from a three-phase transmission line or adding a grounded conductor (a fourth wire on a short arm) under the three conductor phases along the side of the parallel metal infrastructure while

maintaining all required code or specified clearances. Induced current on this grounded conductor generates a counter-electromotive force opposing the original field, thereby offsetting the net effect of induced voltage on the parallel metal infrastructure. Although not expected, a buried conductor can be used if the aerial solutions are not feasible or additional offsetting is needed. This buried conductor creates the same offsetting force as the aerial conductor but can be positioned even closer to the metal infrastructure, thereby being even more effective in reducing induced voltages. One advantage of the buried option is that it doesn't have the same aboveground clearance requirements and is often installed approximately 5 to 10 feet away from the edge of ballast, for example.

A final determination on the need to relocate utilities to accommodate the new PG&E 230 kV lines will be made during final engineering. Localized underground utilities will be identified during final design and will be either avoided or relocated in coordination with the facility owner. To maintain compatibility with existing utilities and infrastructure, the following approaches will be incorporated into the final project design:

- The new PG&E transmission line will be designed to cross over existing power lines (12 kV [distribution], 60 kV, and 115 kV lines) that have lower operating voltages and meet the GO 95 clearance requirements. The preliminary line design incorporates structure heights necessary to meet required electrical clearances. The known overhead PG&E 12 kV, 60 kV, and 115 kV crossings for the PG&E transmission proposed route are listed in Table 3.3-12.
- The modification of the western portion of PG&E Lockeford-Lodi 60 kV Line (and its joint pole use of LEU 12 kV feeder lines and Comcast telecommunication underbuild) to accommodate the new 230 kV transmission line is discussed in Section 3.3.3.5, Section 3.3.3.7, and Section 3.3.9. The new 230 kV will not cross the PG&E 60 kV line between W43-W44 because the 60 kV line will be removed as part of construction. Similarly, the new 230 kV line will not cross the existing LEU 12 kV line between W47-W48 because that span is not in service and will be removed as part of LEU's portion of the project. The existing LEU 12 kV underbuild on PG&E Lockeford-Lodi 60 kV Line will be relocated to an underground alignment that is parallel to new 230 kV line (south of W45-W46-W47). Otherwise, the project does not propose to modify any of the existing power or distribution lines crossed by the new 230 kV line segments. Approximately 24 overhead distribution lines will be crossed by the new PG&E 230 kV line outside of the City of Lodi; no aboveground distribution lines are expected to be crossed within the City of Lodi. PG&E's 230 kV line will cross the proposed PG&E underground distribution line extension to PG&E Thurman Switching Station in South Guild Avenue.
- Where the PG&E transmission line would have an aerial crossing of SR 88 (W11-W12), PG&E will request an encroachment permit from Caltrans. The line is designed to have a minimum of 27 feet of ground clearance over SR 88. Structure W11 is more than approximately 52 feet from the fog line. Structure W12 is located outside of the Caltrans right of way; however, it is within approximately 52 feet of the fog line, at approximately 35 feet from the fog line. As such, Caltrans may request PG&E to complete a Design Standard Decision Document to review alignment with the Caltrans policy as part of the encroachment permit application.
- Where the PG&E transmission line crosses over railroads, the crossings will be designed to meet the GO 95 clearance requirement of 34 feet. A new PG&E Thurman-Lockeford Line (W43-W44) span will cross two railroad tracks and associated railroad ROW near and within the City of Lodi.
- Where the PG&E transmission line crosses over non-navigable canals or waterways, the PG&E 230 kV crossings will be designed to meet the GO 95 vertical clearance requirement of 28 feet. PG&E Brighton-Bellota Line extension (E17-E18) will cross over the channelized Paddy Creek and PG&E Thurman-Lockeford Line (W10-W11) will cross over the channelized Bear Creek. These two creeks are CVFPB regulated streams and federal levees. The planned vertical clearance exceeds the Title 23 (23 CCR Section 120 and Section 123) vertical clearance requirement of 25 feet for aerial levee crossings of power lines that are more than 75 kV. Additionally, the PG&E 230 kV structures and temporary work areas are all designed to be more than approximately 25 feet from

the landward side of the landside levee toe to each side of the channelized non-navigable canals, which exceeds the Title 23 distance of 10 feet.

- Agricultural wells are common in the project area. The transmission line route avoids most of the known well locations. Two wells are identified within the proposed transmission line ROW (near E9 and E12) and appropriate vertical and horizontal clearances have been accounted for in the transmission line design to provide adequate clearance for well maintenance equipment at these known well locations. With project approval and final design, well information will be updated in coordination with landowners and, if necessary, the line design will be adjusted to accommodate new wells. It is anticipated that no wells will need to be relocated as part of the proposed project.

Table 3.3-12. Line Crossing Summary

New PG&E 230 kV Crossing Location (Line and structures)	Existing Line Count and Voltage	Existing Line Description	Estimated New Structure Height per GO 95 (ft)a
Brighton-Bellota extension (E3-E4)	1 - 12 kV	Single-circuit Wood Pole	150-140
Brighton-Bellota extension (E5-E6)	1 - 12 kV	Single-circuit Wood Pole	145-140
Brighton-Bellota extension (E9-E10)	1 - 12 kV	Single-circuit Wood Pole	135
Brighton-Bellota extension (E10-E11)	1 - 12 kV	Single-circuit Wood Pole	135
Brighton-Bellota extension (E13-E14)	1 - 12 kV	Single-circuit Wood Pole	150
Brighton-Bellota extension (E14-E15)	2 - 115 kV	Lattice Steel Tower	150-165
Brighton-Bellota extension (E16-E17)	1 - 12 kV	Single-circuit Wood Pole	120-130
Brighton-Bellota extension (E18-E19)	1 - 12 kV	Single-circuit Wood Pole	130-120
Brighton-Bellota extension (E22-E23)	1 - 12 kV	Single-circuit Wood Pole	130-120
Lockeford-Thurman (W1-W2)	2 - 60 kV	Single-circuit Wood Pole	165 – 170
Lockeford-Thurman (W3-W4)	1 - 60 kV with 1 -12 kV	Single-circuit Wood Pole with 12 kV underbuild	120 – 145
Lockeford-Thurman (W3-W4)	1 – communication	Communication Wood Pole	120 – 145
Lockeford-Thurman (W11-W12)	1 - 12 kV	Single-circuit Wood Pole	120 - 125
Lockeford-Thurman (W12-W13)	1 - 12 kV	Single-circuit Wood Pole	125
Lockeford-Thurman (W16-W17)	1 - 12 kV	Single-circuit Wood Pole	120
Lockeford-Thurman (W19-W20)	1 – 12 kV	Single-circuit Wood Pole	120 - 130
Lockeford-Thurman (W24-W25)	1 - 60 kV	Single-circuit Wood Pole with 12 kV underbuild	130
Lockeford-Thurman (W30-W31)	1 – 12 kV	Single-circuit Wood Pole	130 - 150
Lockeford-Thurman (W33-W34)	1 – 12 kV	Single-circuit Wood Pole	135 - 150
Lockeford-Thurman (W35-W36)	1 – 12 kV	Single-circuit Wood Pole	145 - 150

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change. All lines are PG&E lines.

3.3.4.2 PG&E Thurman Switching Station

The proposed PG&E Thurman Switching Station will be a 230 kV switching station with an approximate footprint of 5.75 acres (on a portion of parcel 04931009) to the northwest of the intersection of South Guild Avenue and East Thurman Road within the City of Lodi (refer to Figure 3.3-2a and Figure 3.3-2b). The switching station will switch the PG&E Lockeford-Thurman No. 1 and No. 2 230 kV lines to PG&E and

LEU Thurman-Guild No. 1 and No. 2 Lines. The station footprint acreage includes the permanent fenced area and paved driveways from South Guild Avenue.

Electric equipment at PG&E Thurman Switching Station will include 230 kV disconnect switches, instrument transformers, protective relaying, metering and control equipment, remote SCADA equipment, telemetering equipment, an auxiliary AC/DC power system, an electric grounding system, and underground conduits or trench systems. PG&E Thurman Switching Station will be unmanned and have automated features and remote-control capabilities. An approximately 10-foot-tall security fence consisting of 3/8-inch wire mesh with an approximately 1 foot of V-shaped barbed wire at the top will be installed to enclose approximately 5.71 acres of the PG&E property. The chain-link fence system will have isolated fence grounding and be installed per NERC and PG&E security standards and requirements. During operation, the switching station facility will be within a permanently fenced area and use new access from the adjacent city streets.

The new 230 kV aboveground bus support and dead-end steel structures will range in height from approximately 16 feet to approximately 55 feet, with concrete foundations as deep as approximately 28 feet. Each adjacent bay is approximately 53 feet by 400 feet with vehicle access of approximately 16 feet around the new 230 kV bays. An underground conduit system is expected to be buried from approximately 3 to 5 feet deep. An underground grounding system, typically placed in an approximately 10-foot by 10-foot grid of copper wire, will be buried at a minimum of approximately 18 inches within the switching station property. Up to approximately 4 grounding wells are expected to be installed up to approximately 100 feet in depth. Grounding rods typically have a diameter of approximately 1 inch to approximately 1.5 inches and a drill rig would be used to excavate a narrow shaft to install the rod within the well. Refer to Figure 3.3-7a for the proposed profile view looking north. Refer to Figure 3.3-7b for the proposed profile view looking west. Refer to Table 3.3-13 for approximate preliminary metrics of proposed PG&E Thurman Switching Station components.

The components of the switching station include:

Bay X. A new 230 kV BAAH bay, with three 230 kV circuit breakers, will be installed for the new 230 kV lines. The circuit breakers will be mounted to new concrete pads and connected to Bus 1 and Bus 2 using conductor and tubing.

- Install twelve single-phase 230 kV line coupling CCVTs on single-phase steel support structures and associated foundations. Three CCVTs will be on each line position, including LEU transformer positions for line voltage automatics and relaying. Line traps may be required for protection as determined during final design.
- Install two single-phase (C-phase only) 230 kV bus CCVTs on single-phase steel support structures and associated foundations. These CCVTs will be located, one each, on both 230 kV Bus 1 and Bus 2.
- Use aluminum tubular conductor to install 230 kV main Bus 1 and Bus 2. The conductor will be 5-inch aluminum tubing, schedule 40 for the main buses; 4-inch aluminum tubing and bundled 1,113 kcmil aluminum will be used for the BAAH bays with associated bus/cable connectors and bus vibration dampening.

New 230 kV Circuit Breaker and Disconnect Switch. A new 230 kV circuit breaker will be installed for the new transmission line. The circuit breaker will be mounted to a new concrete pad and connected to the existing bay using conductor and tubing. New disconnect switches will allow for electrical isolation for operating and maintenance purposes.

- Install six 230 kV power circuit breakers and associated foundations, SF_6 gas type, rated 230 kV, 2000 A continuous, and 40 kAIC, with two sets of current transformers per bushing.
- Install twelve 230 kV, 2000 A, air disconnect switches and associated foundations for circuit breaker isolation, center side break, manually operated.

- Install four 230 kV, 2000 A, air disconnect switches and associated foundations for line and LEU transformer disconnects, vertical break, manually operated.

Take-Off Structure. A new H-frame take-off structure will terminate each new line at the east end of Bay X inside the switching station.

- Install two double-bay 230 kV switch and dead-end/pull-off H-frame structures and associated foundations to interface with incoming PG&E transmission lines and LEU transformer bank connections.
- Install one double-bay 230 kV dead-end/pull-off H-frame structure and associated foundations to connect the BAAH bays to the line terminal dead-end structures.

Switching Station Permanent Electrical Service. Station service will be provided by a station service voltage transformer (SSVT) with an extended distribution circuit installed for backup service.

- Install one single-phase (A-phase only) 208 kV/120-208 V, 100 kilovolt-ampere (kVA) pole-mounted SSVT on a single support structure and associated foundation. The SSVT will be connected to the 230 kV Bus 1.
- Extend an existing PG&E distribution wood pole circuit in kind for approximately 500 feet south within South Guild Avenue entering the northeast corner of PG&E Thurman Switching Station just south of the railroad tracks. The distribution circuit will provide permanent backup service for PG&E Thurman Switching Station during operation.
- Install one outdoor 120/208 V AC circuit breaker panelboard and associated foundation to power the switching station equipment. This AC panel also will house a manual transfer switch to select the source of station service power.

Lighting. New lighting that is consistent with standard station lighting will be installed at Bay X. All necessary yard lighting standards and lighting fixtures and associated foundations will be installed, along with station receptacle fixtures, providing 120/208 V AC power and connected to an outdoor lighting panel.

Table 3.3-13. Approximate Preliminary Metrics of Proposed PG&E Thurman Switching Station Components

Components[a]	Quantity	Approximate Preliminary Metrics
230 kV CCVT	14	12′ H
230 kV CCVT Structure	14	9′ H
230 kV Bus Support Structure	6	20′ H
230 kV Bus Support Pole	24	9′ H
230 kV Circuit Breaker	6	16′ H x 12′ L x 5′ W
230 kV Disconnect Switch	16	Mounted on structures
230 kV Disconnect Switch Structure	16	7′-6″ H
H-Frame Take-Off Structure (2-bay)	2	55′ H x 53′ W
H-Frame Take-Off Structure (2-bay)	1	45′ H x 53′ W
230 kV SSVT	1	12′ H
230 kV SSVT Structure	1	9′ H
Outdoor AC Panel (for lighting)	1	6′ H x 5′ W x 20″ D
Control Building	1	64′ L x 15′-4″ W x 12′ H
Battery Building	1	34′ L x 15′-4″ W x 12′ H
Microwave Tower	1	150′ H x 23′ W

Components[a]	Quantity	Approximate Preliminary Metrics
Concrete Foundations	70	719 yd^3

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.
' = foot (feet), " = inch(es), D = depth, H = height, L = length, W = width, yd^3 = cubic yard(s)

Fiber Optic Cable. The new fiber optic cable, which will be installed in the top conductor position of the new transmission line, will be routed into the substation using a new underground conduit. On the last transmission line structure (W49) adjacent to the switching station's eastern fence line, the fiber optic cable will be installed down the structure, connecting to an underground conduit and into the switching station to the control enclosure.

Control and Telecommunication Equipment. Switching station and transmission line protection, control, and telecommunication equipment—including AC/DC panels, lighting, and climate/ventilation controls—will be mounted in new equipment racks installed in a new control enclosure. A control enclosure (approximately 79 feet by 16 feet by 12 feet) will be constructed on a concrete foundation pad, covered in steel sheeting, and have a sloped roof. A dedicated battery enclosure (approximately 34 feet by 16 feet by 12 feet) will be constructed on a concrete foundation pad and covered in steel sheeting with a sloped roof. Along the north side of the station to the west of the enclosures, a microwave tower with three or four legs is expected to be installed to an approximate height of 125 feet, with a concrete slab foundation of approximately 25 square feet. Refer to Figure 3.3-7c for an example photograph of an approximately 150-foot-tall microwave tower. The microwave tower will create a new digital microwave path to PG&E Clayton Hill Repeater Station to deliver the redundant communication into PG&E Thurman Switching Station in support of PG&E's System Protection Scheme. The tower height and foundation details will be refined during design based on geotechnical soil conditions, changes in the vicinity, and other site structure layout. Approximately two new 6-foot antennas are expected to be installed on the southwest leg of the new tower at approximately 115 feet and approximately 125 feet.

Site development work will include site grubbing, excavation, and backfilling to install roads, final grade, and final crushed stone surface for the crushed-rock surface and asphalt access road inside of the perimeter security fencing. Secondary containment for oil spill control will be local to applicable equipment. The preliminary design has the stormwater retention basin located at the southern side of the station. All steel structures supporting electrical and wire will be installed on drilled-shaft foundations, with the exception of some equipment and structures that are supported on concrete-pad foundations, including circuit breakers, control enclosure, and battery enclosure.

New steel structures, including the microwave tower, will be made from galvanized steel. Equipment typically will be ANSI 70 light gray, per PG&E and industry standards. The control enclosure, battery enclosure, and nonsteel switching station equipment will be a nonreflective neutral gray color. New fence material is expected to have a similar finish to the existing gray chain-link fence with approximately three strands of barbed wire along the top.

The new switching station will include outdoor lighting for safety and security. Design and layout for outdoor lighting will incorporate nonglare or hooded fixtures and directional lighting. The lighting will be operated only as needed to support security technology and safety during unplanned work at night.

3.3.4.3 LEU Guild Substation

The proposed LEU Guild Substation will be a 230/60 kV substation with an approximate fenced footprint of approximately 3.25 acres (on portions of parcels 04931008 and 04931009). LEU Guild Substation will have common fenced walkway areas shared with PG&E Thurman Switching Station to the east. LEU Guild Substation will share a common chain-link fence with the existing LEU Industrial Substation to the west. An approximately 10-foot-tall fence consisting of approximately 3/8-inch wire mesh with approximately 1 foot of V-shaped barbed wire at the top will be installed where fencing is planned. The tallest structures

within LEU Guild Substation will be the two 230 kV dead-end structures, at approximately 47 feet in height with approximately 16 feet underground. Refer to Figure 3.3-2a and Figure 3.3-2b, and Figure 3.3-8.

The substation will include equipment laydown and storage, fencing, access and internal vehicle circulation, spill and stormwater management, and other operational considerations. LEU Guild Substation will install two transformer banks. Each will be a three-phase 230/60 kV 200 megavolt-ampere (MVA) autotransformer. The substation will have a protection and control enclosure that will measure approximately 50 feet long, approximately 16 feet wide, and approximately 14 feet high. The protection and control enclosure will have redundant air conditioning units installed to protect electronic components. The enclosure will be wrapped in corrugated metal and painted in a neutral color that will be selected during design.

Telecommunications equipment will communicate information through fiber optic paths between the interconnected PG&E Thurman Switching Station and LEU Guild Substation, and between LEU Guild and LEU Industrial substations. Two fiber optic lines for communication services will be installed underground to provide a fiber optic link between LEU Guild Substation and PG&E Thurman Switching Station. The communication cables will transition from PG&E Thurman Switching Station's control enclosure and enter a pull box positioned at the adjoining property line. The pull box will transition the fiber optic cable to underground approximately 4-inch conduits to LEU Guild Substation's Control Enclosure. These telecommunication cable pull boxes will be approximately 3-foot by 5-foot precast polymer concrete. LEU Guild Substation also will connect to existing telecommunication circuits (telephone and T1, either copper or fiber) at LEU Industrial Substation.

SCADA/remote terminal unit equipment will be installed to provide status and control of LEU Guild Substation equipment. LEU Guild Substation will be unmanned and have automated features and remote-control capabilities.

Access to LEU Guild Substation will be from South Guild Avenue on a new permanent access road. The road will be included in the facility perimeter fence line and is included in the substation acreage total. The main access road will be crushed rock and will measure approximately 800 feet long and approximately 40 feet wide with approximately 10 feet between the road and fence on either side. Interior crushed-rock roads within the substation yard will measure approximately 875 feet long and approximately 16 feet wide in total. Areas outside of the equipment foundations will be covered with approximately 4 to 6 inches of crushed rock. The private-access driveway will occupy approximately 0.75 acre, approximately 0.33 acre of substation interior roads, and the remaining area of approximately 2.17 acres will encompass substation components.

The permanent access road will have a secure vehicle gate from South Guild Avenue that will be a minimum of 20 feet wide approximately. Additionally, LEU Guild Substation will have approximately three personnel gates (minimum 3-foot width approximately), one next to the vehicle gate, one next to the metering enclosure, and one leading into the existing LEU Industrial Substation laydown yard. All gates will be locked with keycard access only for qualified personnel. Warning signs will be posted on the perimeter chain-link fencing and gates in accordance with the National Electric Safety Code (NESC) and the respective LEU guidelines.

LEU Guild Substation will have its own sources of station power. Power required for construction and operation of LEU Guild Substation will be supplied by tapping into the existing LEU 12kV power lines adjacent to the substation site. LEU will provide electric service drops from two existing 12 kV distribution lines south of LEU Industrial Substation, adjacent to LEU Guild Substation. A permanent approximately 100 kilowatt (kW) generator will be installed onsite that can provide power if local primary and secondary service drop sources are unavailable.

Electricity will be used for construction (to power construction trailers, lighting, and small hand-held machinery or tools) and for operation of primary and backup station service power. The electric power will be brought to the LEU Guild Substation on either overhead distribution poles or underground conduits. If overhead, up to six approximately 40-foot-tall wood distribution poles may be constructed between the

existing distribution pole and LEU Guild Substation. The poles will be direct embedded up to approximately 6 feet deep. Pole location will be within the proposed LEU Guild Substation fence. If underground, the backup power and communications will be brought into LEU Guild Substation using up to three underground conduits from the existing distribution poles on the south side of the substation.

Table 3.3-14 presents the equipment that will be permanently located within the fenced area of LEU Guild Substation in the proposed configuration.

Table 3.3-14. Approximate Preliminary Metrics of Proposed LEU Guild Substation Components

Component[a]	Quantity	Approximate Preliminary Metrics
230 kV three-phase cable bus supports	2	18′ H Foundation - 2.5' dia. x 13' Pier
Three-phase 230/60 kV 200 MVA Autotransformers	2	28' L x 18' W x 3' D - Pad
230 kV Capacitive Voltage Transformers	6	
230 kV Combo Current/Potential Voltage Transformers	6	7.5′ H x 2.5' dia. x 12' Pier
60 kV Potential Transformers	6	7.5′ H x 2.5' dia. x 12' Pier
230 kV Three-Phase Group-Operated Air Break Switches	4	13′ H X 2′ dia. x 8′ Pier
60 kV Three-Phase Group-Operated Air Break Switches	2	
230 kV Sulfur Hexafluoride (SF_6) Insulated Circuit Breakers	2	Foundation - 16.5' L x 9.33' W x 2.5' D Pad
230 kV Dead-End Steel Structures	2	45′ H, 15′ L, 1,500 lbs line tension Foundation - 3.5′ dia. x 16' Pier
60 kV Dead-End Steel Structures	2	45′ H, 15′ W, 1500 lbs line tension Foundation - 3.5′ dia. x 16' Pier
230 kV Lightning Surge Arresters	6	
60 kV Lightning Surge Arresters	6	
100 kVA Station Service Transformers	2	7.5′ H Foundation - 2.5' dia. x 12' Pier
Emergency 100 kW Generator	1	
Protection and Control Enclosure (with redundant air-conditioning units installed to protect electronic components)	1	50′ L x 16′ W x 2′ D
Metering Enclosure to provide PG&E Access to the Used Power Data (will have redundant air-conditioning units installed to protect electronic components)	1	21′ L x 15′ W x 14′ H
Retention Basin	1	190′ x 60′ x 4′ depth 231,500 gallons
Lighting	#	minimum of 22 lux or 2 foot-candles.
Telecommunications		
60 kV Bus Conductor		
Secondary Containment for Transformer Oil Spill Control on Applicable Equipment		
Copper Ground System		
One Spare SF_6 Filler Tank	1	186 lbs capacity of SF_6
Crushed Rock Internal Access Road		

Component[a]	Quantity	Approximate Preliminary Metrics
Perimeter Security Fencing	275 Posts	2' dia. x 6' Pier

Notes:

[a] Exact structure type, configuration, and dimensions will be determined by City of Lodi requirements, final engineering, and other factors and are likely to change.

' = foot (feet), " = inch(es), D = depth, dia. = diameter, H = height, L = length, lbs = pounds, unit of weight, W = width, yd^3 = cubic yard(s)

An approximately 6- to 8-foot-tall chain-link fence with up to approximately 2 additional feet of barbed wire, for a total potential height of approximately 10 feet, will be installed around the perimeter of the substation.

Lighting will be installed at LEU Guild Substation and will conform to NESC requirements. NESC recommends, as good practice, illuminating substation facilities to a minimum of approximately 22 lux or approximately 2 foot-candles. Lighting will be sodium vapor or light-emitting diode fixtures and will be installed inside the facility and at the entry/exit gates to allow for safe access to the facility and its equipment. Lights will be controlled by a photocell that automatically turns the lights on in low-light conditions. Lights will be turned off when conditions are brighter than the set foot-candles. All onsite lighting will be oriented downward to minimize glare into surrounding property. Additional manually controlled lighting also will be provided to create safe working conditions at LEU Guild Substation when required. The fixtures will be mounted on legs of dead-end structures, switch support structures, or the control enclosure. The exact number of fixtures and their output and location will be determined during final facility design.

3.3.5 Other Potentially Required Facilities

The project will require the permanent relocation of the Comcast telecommunication line on PG&E Lockeford-Industrial pole 4. The Comcast telecommunication line includes a span to either side of the pole that connected to non-PG&E facilities. PG&E has informed Comcast of the project and the expected need to relocate this line from the PG&E pole as part of construction. Otherwise, the project does not anticipate the need to relocate (temporary or permanent), modify, or replace unconnected utilities or other types of infrastructure by PG&E or any other entity.

PG&E has completed notification of the Federal Aviation Administration (FAA) concerning the expected heights of its new 230 kV structures. No lighting or marking is required by FAA. Refer to Appendix G3.

The project does not expect to require additional civil engineering requirements to address site conditions or slope stabilization issues, such as pads and retaining walls.

3.3.6 Future Expansions and Equipment Life Spans

The substation and switching station facility life spans are indefinite. Station and line structures and their foundations have a typical life span of approximately 75 years. Major power components within a station typically have a life span of approximately 20 years. Transmission, power, and distribution line conductors and cables typically have a life span of approximately 50 years.

Future expansions are not planned or reasonably foreseeable at this time. While PG&E Thurman Switching Station and LEU Guild and LEU Industrial substations would appear to have sufficient adjacent or onsite space to accommodate a new 230 kV single-circuit feed, no such line is planned or reasonably foreseeable.

3.3.7 Underground Conductor/Cable Installations

Electric equipment at PG&E Lockeford Substation, LEU Industrial Substation, PG&E Thurman Switching Station, and LEU Guild Substation will include an underground polyvinyl chloride (PVC) conduit system or a prefabricated concrete trench system at ground level, as described in Section 3.3.3.1, Section 3.3.3.4, Section 3.3.4.2, and Section 3.3.4.3. Power and control cable installed for system protection will be cross-linked polyethylene-insulated solid-dielectric copper conductor cables of various sizes and multiplicity. All trench systems will be HS-20 truck loading rated and any conduit crossings under a roadway will have a concrete cover. The new fiber optic cable underground conduit connects into the control enclosure at each station from the last transmission structure. The fiber optic cable between PG&E Thurman Switching Station and LEU Guild Substation, and between LEU Guild and LEU Industrial substations, will be within an underground conduit between the respective stations. Grounding conductor installed for safety and protection will be multiple stranded, medium-hard drawn, positive proof bare copper of various sizes that will be direct buried.

As described in Section 3.3.3.5, the relocated LEU 12 kV feeder line will be 100 kcmil 600 V cross-linked polyethylene. The cable will be enclosed within one approximately 6-inch conduit. The feeder line pull boxes will be approximately 3 feet wide by 5 feet long by 3.5 feet deep.

The extended PG&E 12 kV secondary station service line will be 1/0A ethylene propylene rubber cable. The cable will be enclosed in an approximately 4-inch underground conduit. The service line pull box will be approximately 3 feet wide by 5 feet long by 3.5 feet deep.

3.3.8 Electric Substations and Switching Station

Construction of the new LEU Guild Substation will include two transformer banks and each will be a three-phase 230/60 kV 200 MVA Autotransformer. Each transformer bank will have one circuit breaker that is insulated with SF_6 gas. LEU Guild Substation also will have a spare SF_6 filler tank for its circuit breakers. LEU or PG&E may use a different technology for the SF_6 breakers within substations if, during final design, available technology would allow a reduction in additional SF_6 use. The potential change in technology is expected to have the approximate physical dimensions of the current circuit breaker technology. The potential new technology is expected be able to be installed within the station fence lines and have negligible operational differences from the current circuit breaker technology, other than the potential reduction in SF_6 use.

New circuit breakers, also insulated with SF_6 gas, will be installed at PG&E Lockeford Substation and PG&E Thurman Switching Station as detailed in Table 3.3-15.

Table 3.3-15. Approximate Preliminary Metrics of Gas-Insulated Circuit Breakers

Project Component	Circuit Breaker Quantity	SF_6 Capacity per Breaker (lbs)	SF_6 Capacity (lbs) Total by Station
PG&E Lockeford Substation	8	155	1,240
PG&E Thurman Switching Station	6	155	930
LEU Guild Substation	3a	186	558

[a] LEU Guild Substation will have two new circuit breakers with SF_6 and one spare SF_6 filler tank.

Operation and maintenance facilities, telecommunications equipment, and SCADA equipment for existing and proposed stations are described in Sections 3.3.3.1, 3.3.3.4, 3.3.4.2 and 3.3.4.3. System protection scheme equipment at remote-end substations will be upgraded as described in Section 3.3.3.11.

3.3.9 Telecommunication Lines

Telecommunication lines (aboveground and underground lengths) within stations and between adjacent stations are described in sections discussing the stations. Existing AT&T fiber line located at PG&E

Lockeford, PG&E Rio Oso, PG&E Bellota, and PG&E Brighton substations will be extended on existing structures at the street, or will be extended from within the substation and to the control enclosure. The fiber line extensions will occur using existing aboveground structures and will have a similar appearance to existing fiber lines within and outside the substations. No modification to existing pole structures within the substations is expected. If additional pole structures are required for the fiber line extensions, the new structures will be similar in appearance and size to existing pole structures. The telecommunication lines associated with the new or modified project components are listed in Table 3.3-16.

Table 3.3-16. Telecommunication Cable Type and Approximate Length by Segment

Segment	Quantity, Cable Type[a]	Approximate Cable Length[b]
PG&E Thurman–Lockeford 230 kV Line	2, OPGW	6.8 miles
PG&E Bellota-Brighton 230 kV extension	2, Alumoweld shieldwires 7 No. 8	3.8 miles
PG&E Lockeford Substation	fiber optic cable	1,000 feet
PG&E Thurman Switching Station	fiber optic cable	1,200 feet
LEU Guild and Industrial Substations	fiber optic cable	1,000 feet
PG&E Lockeford Substation	AT&T fiber line	1,000 feet
PG&E Bellota Substation	AT&T fiber line	1,200 feet
PG&E Brighton Substation	AT&T fiber line	600 feet
PG&E Rio Oso Substation	AT&T fiber line	600 feet

[a] Exact structure type, configuration, and dimensions will be determined by CPUC or City of Lodi requirements, final engineering, and other factors and are likely to change.

[b] Linear length estimate.

Approximately two new 6-foot antennas are expected to be installed on a leg of an existing microwave tower within PG&E Clayton Hill Repeater Station and on a leg of the new microwave tower within PG&E Thurman Switching Station.

3.4 Land Ownership, Rights-of-Way, and Easements

Project components include existing facilities with existing PG&E or LEU land ownership, ROW, and easements, some of which may be modified to accommodate new project components. New project components will include land acquisition, new ROW, and permanent and temporary construction easements.

The existing PG&E Brighton-Bellota 230 kV Transmission Line crosses northeastern San Joaquin County at a northwestern/southeastern angle. The line crosses SR 88/SR 12 between the communities of Lockeford and Clements. Approximately 4 miles southeast of where the line crosses SR 88/SR 12 and north of the line's intersection with East Bay Municipal Utility District's Mokelumne Aqueduct, the Brighton-Bellota 230 kV Transmission Line will be extended westward for approximately 3.8 miles to PG&E Lockeford Substation. The line extension will parallel an existing transmission line ROW (colocated PG&E Rio Oso-Lockeford 230 kV and PG&E Lockeford-Bellota 230 kV Transmission Lines) to consolidate resources with the existing transmission ROW and reduce potential visual and land use impacts. The existing transmission ROW is joined by two 115 kV power lines west of North Tully Road to PG&E Lockeford Substation. The land use surrounding the existing transmission and power ROW is General Agriculture, predominantly vineyards, with associated residences.

PG&E Lockeford Substation is located on East Kettleman Lane, approximately 1 mile east of SR 88 and approximately 3 miles south of the community of Lockeford. PG&E Lockeford Substation has been used for power since 1948, with a major land expansion that started in approximately 1977. The substation has been expanded and modified on the PG&E property during approximately the past 20 years. The proposed

double-circuit PG&E Lockeford-Thurman 230 kV Transmission Line will be located west of PG&E Lockeford Substation. PG&E Lockeford-Thurman Line will start at PG&E Lockeford Substation and extend west/northwest for approximately 6.8 miles to the new PG&E Thurman Switching Station. PG&E Thurman Switching Station will be located at LEU Industrial Substation in the City of Lodi at the intersection of East Thurman Road and South Guild Avenue, approximately 0.25 mile east of SR 99. The new 230/60 kV LEU Guild Substation will be between PG&E Thurman Switching Station to the east and LEU Industrial Substation to the west.

PG&E 60 kV lines that will be reconfigured as part of the project are located in easements or franchise or have railroad, county or city encroachment permits.

The extension of the existing PG&E 12 kV line will occur in franchise on South Guild Avenue for approximately 550 feet and will connect to PG&E Thurman Switching Station on property purchased by PG&E from the City of Lodi.

LEU 12 kV work will occur on existing LEU structures or on City of Lodi property. The relocation of the 12 kV feeder line to an underground configuration will occur on the property of the LEU customer. LEU and the LEU customer have an existing agreement to locate facilities for service and no modification will be required.

PG&E's remote-end substations (Bellota, Brighton, Lodi, and Rio Oso) and PG&E Clayton Hill Repeater Station are located on PG&E property and project activities will occur within the fenced PG&E property during work at these facilities.

3.4.1 Land Ownership

Project work at PG&E Lockeford, Rio Oso, Bellota, Brighton, and Lodi substations, PG&E Clayton Hill Repeater Station, and the terminal structure of PG&E Rio Oso-Lockeford/Lockeford-Bellota 230 kV Transmission Lines will occur within the existing station properties, which are owned in fee by PG&E. Work at LEU Industrial and Guild substations will occur on City of Lodi properties (Assessor Parcel Map Numbers [APNs] 04931008 and 04931009). The new LEU Guild Substation will be located immediately adjacent to and east of the existing LEU Industrial Substation. The new LEU Guild Substation will occupy approximately 3.25 acres on portions of APNs 04931008 and 04931009. The LEU Guild-Industrial 60 kV Line will be on APN 04931008. The new PG&E and LEU Thurman-Guild 230 kV Transmission Lines will be on APN 04931009 with either end within property owned in fee by PG&E or the City of Lodi, respectively.

The construction of the new PG&E Thurman Switching Station will require fee acquisition by PG&E of approximately 6.00 acres (APN 04931009) from the City of Lodi.

3.4.2 Existing ROWs or Easements

PG&E's and LEU's existing electric lines described in Section 3.3.3 have existing utility easements or are in franchise when not connecting to stations on property owned in fee. PG&E's three 60 kV lines currently connecting into LEU Industrial Substation are located within franchise or existing utility easements.

LEU Industrial Substation's existing 12 kV feeder line will use an existing land rights agreement between LEU and its customer when the line is relocated to an underground configuration on its customer's property. Table 3.4-1 shows existing ROWs and easements for the project.

Table 3.4-1. Existing ROWs and Easements for Project Components

Location | Project Component	APN	Approximate Easement Dimensions	Project Action
PG&E facility in County franchise PG&E Lockeford-Industrial pole 10	franchise	25-foot width	Replace in franchise

Location | Project Component	APN	Approximate Easement Dimensions	Project Action
PG&E railroad encroachment permit PG&E Lockeford-Industrial pole 9 and spans between pole 10, pole 9, and pole 8	04931043	40-foot width	Remove PG&E 60 kV pole and spans; obtain new/modified permit for PG&E 230 kV line in 60 kV ROW
PG&E easements and railroad encroachment permit PG&E Lockeford-Industrial 60 kV Line pole 8, pole 7, pole 6, pole 5, pole 4 and adjacent spans	04931003 04931004 04931011	40-foot width	Remove PG&E 60 kV poles and spans; modify as needed for new PG&E 230 kV line in 60 kV ROW
PG&E railroad encroachment permit PG&E Lodi-Industrial (pole 1 to pole 2) and PG&E Industrial Tap (pole1 to pole 2)	04931003	40-foot width	Remove PG&E poles and spans into LEU Industrial Substation. Railroad crossing permit no longer needed.
PG&E facilities in City franchise PG&E Lodi-Industrial (pole 2 to stub pole), PG&E Industrial Tap (pole 2 to stub pole) and stub pole on East Lodi Avenue	franchise	25-foot width	Remove PG&E spans and guy stub on north side of East Lodi Avenue
PG&E facilities in City franchise PG&E Lockeford-Lodi No. 1 60 kV Line – new span, west	franchise	25-foot width	Install new span between PG&E Lodi-Industrial pole 2 and PG&E Industrial Tap pole 2
PG&E railroad encroachment permit PG&E Industrial Tap 60 kV Line – north-south alignment	04912309 04909021	35-foot	New railroad encroachment permit to allow upgrades and work on railroad property.
PG&E Caltrans encroachment permit PG&E Industrial Tap 60 kV Line crossing of SR 12 / East Victor Road between pole 22 and pole 21	Caltrans	25-foot width	Existing Caltrans permit for SR Hwy 12 crossing – new Caltrans permit expected for new horizontal guy and down guys on existing poles.
PG&E railroad encroachment permit PG&E distribution pole immediately south of SR 12 / East Victor Road	04932016	35-foot	New railroad encroachment permit to allow upgrades to distribution pole and new down guy and work on railroad property.
Joint pole agreement use on PG&E poles LEU 12 kV feeder line	04931003 04931004 04931011	n/a	Existing LEU line underbuild will be removed from PG&E Lockeford-Industrial poles.

The LEU 12 kV service drop underbuild on PG&E Lockeford-Industrial 60 kV Line will be relocated into an adjacent LEU underground utility easement on APN 04931004. The Comcast telecommunication line will be relocated by Comcast before construction on PG&E Lockeford-Industrial pole 4.

Nine poles (pole 1 through pole 9) and 10 spans of the existing PG&E Lockeford-Industrial currently within existing easements or railroad encroachment permits on APNs 04931043, 04931011, and 04931004 will be removed as part of the project. PG&E Lockeford-Industrial Pole 10 will be replaced within County franchise along the north side of East Sargent Road.

When the PG&E 60 kV connections into LEU Industrial Substation are removed, the railroad encroachment permit on APN 04931003 for PG&E Lodi-Industrial and PG&E Industrial Tap Lines will no longer be needed where pole 1 to pole 2 spans for each line cross the railroad. The project activities to reconfigure the three PG&E 60 kV lines disconnected from LEU Industrial Substation will occur within City franchise other than the parcels identified with railroad encroachment permit or easement. The existing horizontal guy wires between poles 2 and a steel stub pole in City franchise on the north side of East Lodi Avenue will

be removed along with the steel pole. Reconfiguration (reframing and new span) of the two PG&E 60 kV lines along the south side of East Lodi Avenue will occur within existing City franchise rights for the line of poles.

The existing utility easement on APN 04909013 associated with PG&E Industrial Tap Line poles 12 and 13 will not need to be modified with the planned reframing. Where PG&E Industrial Tap runs north-south with PG&E 12 kV underbuild, PG&E has an existing 35-foot easement with California Central Traction Company for the operation of overhead power lines and appurtenances. PG&E will request a new railroad encroachment permit to allow upgrades and work on railroad property.

3.4.3 New or Modified ROWs or Easements

The project requires an estimated approximately 10.6 miles of new ROW for construction, maintenance, and operation of the new PG&E transmission line segments outside of stations or existing ROW. Refer to Figure 3.5-1. The 230 kV ROW for the new PG&E Brighton-Lockeford and Lockeford-Bellota No. 2 Lines (Brighton-Bellota extension) is expected to be approximately 110 feet wide. The 230 kV ROW for the new PG&E Lockeford-Thurman No. 1 and No. 2 Lines is expected to be approximately 115 feet wide. An approximately 110-foot-wide ROW will be required by PG&E where the new transmission line segments cross over 115 kV lines or where the new transmission line requires longer-than-normal span lengths. A wider width is not needed where the line crosses 60 kV or distribution lines. At public roadway crossings, the new transmission line will use PG&E franchise agreements with the appropriate local jurisdiction. PG&E will obtain a Caltrans encroachment permit for the transmission line where it crosses SR 88. PG&E's existing Caltrans encroachment permit for PG&E Industrial Tap Line across SR 12/East Victor Road will be modified with the power line span removal and the installation of an aboveground guy wire span. PG&E will obtain encroachment permits for the transmission line where it crosses CVFPB regulated streams and federal levees.

PG&E will modify or obtain new CCT Company/UPRR encroachment permits associated with APN 04931043 and APN 04931004 for the new PG&E Lockeford-Thurman Line. A railroad encroachment permit will be obtained at the western end of East Sargent Road where the new PG&E 60 kV span between PG&E Lockeford-Industrial Line and PG&E Industrial Tap Line (part of the PG&E Lockeford-Lodi No. 1 Line) will cross the railroad tracks aboveground. PG&E will extend an existing 12 kV line underground to the new PG&E Thurman Switching Station to provide secondary permanent service. The line is in franchise now along South Guild Avenue and the extension will occur within franchise to PG&E Thurman Switching Station. A new or modified city encroachment permit will be obtained by PG&E. A railroad encroachment permit will be obtained from CCT Company/UPRR where the PG&E service line is expected to be extended using a trenchless method within South Guild Avenue where it bisects APN 04931004 (railroad parcel).

The City of Lodi will grant easement to PG&E for access to LEU Guild Substation's metering enclosure inside the LEU Guild Substation yard via the substation's main access road off South Guild Avenue. This LEU access road is approximately 60 feet wide by approximately 800 feet long. Figure 3.3-2b shows the access road.

PG&E's existing utility easements for the PG&E Rio Oso-Lockeford/Lockeford-Bellota Transmission Line may be modified to accommodate the new PG&E Brighton-Bellota Loop where feasible. If existing easements cannot be modified to include the new line, new utility easements will be obtained. Table 3.4-2 shows the new or modified ROWs and easements for the project.

Table 3.4-2. New or Modified ROWs and Easements for Project Components

Project Component	APN	Approximate Easement Dimensions	Project Action
New PG&E railroad encroachment permit PG&E Lockeford-Lodi No. 1 60 kV Line – new span, east	04909021	40-feet potentially	Connect PG&E Lockeford-Industrial pole 10 and PG&E Industrial Tap pole 13 at the west end of East Sargent Rd
New PG&E railroad encroachment permit PG&E Thurman Switching Station 12 kV secondary service – South Guild Ave	04931004	25-feet potentially	Extend PG&E 12 kV existing line within South Guild Ave franchise and cross under railroad tracks to PG&E Thurman Switching Station
PG&E Rio Oso-Lockeford/Lockeford-Bellota (No.1) Transmission Line	TBD and 05126011 05126013 05126032	Potentially up to 110 feet by 3.8 miles	Modify existing easement for westernmost structure relocation and also where new and existing transmission lines are located on common parcel
PG&E Brighton-Bellota Loop (Brighton-Lockeford and Lockeford-Bellota No. 2 Lines)	TBD	110 feet by parcel length	New easement for new 230 kV transmission line
PG&E Thurman-Lockeford Line	TBD	115 feet by parcel length	New easement for new 230 kV transmission line
PG&E 12 kV service line extension to PG&E Thurman Switching Station	n/a	25-foot	Use franchise rights in South Guild Avenue (city encroachment) to extend line

TBD = to be determined

No relocation or demolition of commercial or residential property/structures is anticipated.

3.4.4 Temporary ROWs or Easements

Up to approximately three temporary staging areas may be used near the project. Staging area sizes will vary, depending on negotiations with landowners to establish the temporary construction easements. Each staging area is expected to have a footprint of approximately 1 to 6 acres. Refer to Figure 3.5-1 for potential temporary staging areas that may be used by the project.

Other temporary staging for the project is expected to be within existing or new PG&E or LEU station or yard facilities. For example, temporary staging areas are expected to be established at property owned by PG&E or LEU, including PG&E Bellota, PG&E Brighton, PG&E Lockeford, PG&E Lodi, and PG&E Rio Oso substations, PG&E Clayton Hill Repeater Station, PG&E Thurman Switching Station, LEU Guild and LEU Industrial substations. PG&E's Victor Yard along East Victor Road/SR 12 also may be used for project-related activities.

3.5 Construction Activities

A description of the project's construction activities concerning access, staging areas, work areas, site preparation, work activities at project components, management of materials and waste, and related construction methods are provided in the following sections.

3.5.1 Construction Access

The project will primarily use the existing network of public and private roads to access stations, structure work areas, pull-and-tension sites, and staging areas. Refer to Figure 3.5-1. Other access will be overland, which may present some lengths that require preparation such as surface blading or temporary crushed rock for traction. Overland access that may require limited preparation before use is described as new temporary access. No new permanent access roads are expected to be installed for transmission or power line access. New or improved permanent access from a paved road to a station vehicle gate and within a station fence line is included in the respective station discussion. Table 3.5-1 summarizes the types and area of project access roads, routes, and overland access. In addition to the roads listed in Table 3.5-1, existing public paved roads throughout the area will be used to access the project site.

Table 3.5-1. Access Roads, Routes, and Overland Access and Approximate Area

Road Type	Description	Area (Acres)
Existing Dirt Road	Typically, agricultural road or double track. May have been graded previously. No other preparation required, although a few sections may need to be regraded and crushed rock may need to be applied in very limited areas for traction.	21.30
New Temporary Access Routes	Would be approximately 16 feet wide, bladed. No other preparation required, although crushed rock may need to be applied in very limited areas for traction.	2.63
Overland Access	No preparation required. Typically, grassy or field areas that are relatively flat. No restoration would be necessary.	1.21

3.5.1.1 Existing Access Roads

All stations will be accessible from existing paved or all-weather roads. The new PG&E Thurman Switching Station and the new LEU Guild Substation will have paved driveway access from South Guild Avenue connecting to interior station access roads. Within the existing fenced west yard of PG&E Lockeford Substation, an all-weather road will be installed to connect to a new interior vehicle gate. No permanent access roads will be installed. Permanent interior station vehicle access roads are not counted as permanent access roads because they are counted with the station impact. Most structure work areas will be parallel to or adjacent to agricultural, city, or county roads. As such, most work areas will be accessed directly from adjacent roads. Most of the existing paved and unpaved roads in the project area are used currently for large agricultural vehicle and equipment movement during field preparation, planting, maintenance, and harvesting. Within the City of Lodi, existing paved roads that will be used to access project work areas are used frequently by large vehicles accessing existing utility, industrial, and commercial properties. The area of existing dirt road is estimated to be approximately 21.30 acres assuming a conservative width of approximately 16 feet.

Figure 3.5-1 identifies the network of existing roads that are expected to be used during construction, along with expected access modifications or stabilization anticipated. Modification of existing roads is anticipated to occur on some unpaved agricultural roads, at certain intersections, and during the winter months. Minimal surface contouring may be required to level existing access roads. The following modifications are anticipated:

- Some of the agricultural roads to be used as temporary access will require widening up to approximately 16 feet, from an average existing approximately 12 feet, to accommodate construction equipment that may be larger than the typical agricultural vehicle. For purposes of environmental impact analysis, it was assumed that these agricultural roads are currently approximately 12 feet wide and require widening to approximately 16 feet.
- Where roads intersect at angles that cannot accommodate the turn radius of construction equipment (such as tractor-trailers hauling monopole sections), curve improvements at existing

road intersections will be necessary. The estimated area of disturbance resulting from curve improvements are included approximate area in Table 3.5-1.

- Unpaved roads may need to be winterized to accommodate heavy loads in winter. Based on final design and construction scheduling, winterizing of the existing roads may include blading, compaction, rocking, culvert installation, and aggregate placement.

Following construction, existing roads will be returned to conditions as close to before the project as reasonably feasible or as stipulated by landowner agreement. Any aggregate added to existing roads will be left in place, unless otherwise specified in landowner agreements.

3.5.1.2 New Temporary Access Roads

While most of the temporary access will be overland access or agricultural road access from existing roads to project work areas, some access will require temporary stabilization or other actions for safe construction activities as shown on Figure 3.5-1.

Access roads are proposed and total approximately 2.63 acres, based a width of approximately 16 feet. The access roads are intended to minimally impact the existing land use while allowing for safe construction access. During temporary construction easement and permanent ROW and easement discussions, the exact access alignment and specifications will be coordinated with the impacted property owners. The access roads were developed by reviewing aerial imagery and using information gathered during field review from public areas. Within the terms of easement agreements, mapped access roads are expected to continue to be refined during preconstruction staking, considering current agricultural operations and irrigation infrastructure.

At road intersections, access roads being used for construction may need to be widened to accommodate the turn radius of tractor-trailers hauling monopole sections. Earthen ramps may be required when crossing existing berms and embankments, as well as for placement of temporary culverts when crossing irrigation ditches. A temporary culvert typically would include placing engineering fabric in the ditch, installing pipe with capacity that allows flow and supports the weight of construction vehicles or equipment, and covering with rock aggregate. The rock, pipe, and fabric would be removed when the construction is complete, as determined during coordination with the property owner. Ramps will be constructed using excess clean fill generated during construction and removed when construction is complete. Where roads must cross over irrigation lines, the lines will be protected with steel plates or rerouted to maintain irrigation operations. If required, access roads will be cleared of crops or mowed, and vegetation will be trimmed/removed, as necessary for safe equipment operation. Adjacent orchard trees may be trimmed to avoid damage from construction vehicles and maintain safe lines of sight. Minimal surface contouring may be required to level the access road following vegetation, orchard, or crop removal or trimming. If the access road is used in the wet season, construction matting or aggregate base may be laid down over geotextile fabric as needed and these materials would be removed after construction.

Within row crop, orchard, and vineyard settings, temporary access roads and overland access are identified to minimize disruptions to irrigation infrastructure (including irrigation lines, wells, pumps, ditches, and drains). To the greatest extent feasible within orchards and vineyards, temporary access routes will be aligned with the planting layout to minimize the disruption to agricultural operations (for example, access will follow a single row of trees or two rows of vines instead of crossing multiple rows of trees and vines).

Where existing fencing needs to be removed for access, a temporary gate will be installed in coordination with the landowner. Temporary gates would be removed and removed fencing replaced in-kind when construction is complete. No new permanent gates are anticipated for project operation and maintenance outside of stations.

3.5.1.3 Overland Access Routes

Most of the temporary access will be short overland access spurs, typically at least approximately 16 feet in width, from existing roads to project work areas as shown on Figure 3.5-1. At the intersection with existing roads, temporary access routes may be wider to accommodate the turn radius of tractor-trailers hauling monopole sections. Adjacent orchard trees may be trimmed to avoid damage from construction vehicles and maintain safe lines of sight. Where routes must cross over irrigation lines, the lines will be protected with steel plates or rerouted to maintain irrigation operations. Where existing fencing needs to be removed for access, a temporary gate will be installed in coordination with the landowner. If the access route is used in the wet season, construction matting or aggregate base may be laid down over geotextile fabric as needed and these materials would be removed after construction.

The estimated approximate area needed for overland access routes, approximately 1.21 acre, is based on an approximate 16-foot width as summarized in Table 3.5-1.

3.5.1.4 Watercourse Crossings

The new 230 kV transmission line will span irrigation ditches and non-navigable canals or waterways such as Bear Creek and Paddy Creek; however, no watercourse crossing will be required. Temporary culverts may be placed where construction access crosses existing irrigation ditches as described previously. No bridge or culvert replacements are expected on the project. The access route to the work area at structure E18 from North Jack Tone Road and the access route to the staging area at PG&E Lockeford Substation from East Kettleman Lane will use established overland routes, such as driveways, that will avoid drainage ditches and constructed watercourses culverted beneath the access routes.

An irrigation ditch runs parallel to the access route and partially intersects the project footprint at structure W9. Based on historic aerial imagery and multiple field reviews of the area, this ditch appears to be excavated on a seasonal basis to water adjacent crops, then filled after the growing season is completed. It has no ordinary high water mark, and is devoid of vegetation, and as such is presumed to be non-jurisdictional under the CWA and California Fish and Game Code. While this ditch is presumed to be non-jurisdictional, if it is present during construction, it will be avoided. Placement of this structure will be coordinated with the landowner during final design and construction planning to ensure impacts to this ditch are avoided.

3.5.1.5 Helicopter Access

A light-duty helicopter (Hughes MD 500 or equivalent) is expected to be used as part of the conductor stringing operation; use of helicopters to lift and transport structure components and poles is not anticipated. The helicopter type will depend on availability at the time of construction.

Helicopter landing zones are expected to be colocated with three staging areas, as shown on Figure 3.5-1, or helicopters will use existing nearby airstrips and commercial airports. In each temporary landing zone or staging area, there will be a designated area for helicopter take-off and landing. Dust suppressants or water will be applied as needed to control dust at the landing zone.

Helicopters generally will be staged and fueled at existing local airports, such as Lodi Airport, Lodi Airpark, or Kingdon Airpark. The helicopter is anticipated to refuel primarily at nearby commercial airports; however, a fuel truck may be available at project staging areas to support refueling if needed. Spill prevention measures will be in place for any onsite helicopter refueling in keeping with the project Stormwater Pollution Prevention Plan (SWPPP).

PG&E estimates that a helicopter will be used on the project for approximately 50, likely nonconsecutive, days (for an average of approximately 5 flight hours per day) during construction, primarily supporting the activities described previously. Conductor stringing typically proceeds in reel-length segments of the transmission line. To assist with conductor stringing, a helicopter will fly a lightweight sock line and thread

it through traveler pulleys affixed to structure arms, which typically requires approximately 10 to 15 minutes of hover time at each structure.

A light-duty helicopter (Hughes MD 500 or equivalent) has a load capacity of approximately 1,200 pounds. Within 500 feet of residences, helicopter operations will be limited to daylight hours. The helicopter flight path generally will follow the proposed transmission line alignment, which will avoid flying directly over residences.

Because helicopters are not proposed for lifting structure components, it is not anticipated that residents would temporarily be required to vacate their residences. However, in the unlikely event that final construction plans require otherwise, all FAA requirements would be met and PG&E would coordinate with potentially affected residents (providing a minimum of 30 days of advance notice).

3.5.2 Staging Areas

Approximately three staging areas outside of stations, totaling approximately 10 to 15 acres, will be identified for use when PG&E construction crews are assigned or a construction contractor is selected. It is anticipated that most of the staging areas will be located within approximately 5 miles of the work areas; however, existing PG&E or LEU facilities or other locations currently used for staging or storage may be used as well. Staging areas may include portions of the existing and proposed stations, PG&E's Victor Yard, warehouses; ruderal, paved, or graveled sites; or other existing commercially available offsite office, warehouse, or yard space. Potential staging areas have been identified; however, specific staging area locations will be determined based on staging areas that are available at the time of construction. Staging areas typically are used for office trailers, crew and equipment assembly areas, safety and tailgate training areas, equipment and materials storage, and vehicle parking. Potential staging areas not currently within a station fence line are shown on Figure 3.5-1.

3.5.2.1 Staging Area Locations

Staging areas may be relocated or adjusted as necessary at the time of construction based on land use changes, unanticipated impacts, and other factors. Staging will occur within existing station yards for station-related work and nearby line work.

The new LEU Guild Substation site (near potential Staging Area 3) will include one distinct staging area during construction that will be used for receiving, staging, laydown area, and construction worker parking inside of the proposed fenced area (approximately 3.25 acres).

Existing commercially available office and yard space may be used by contractors or agencies. Depending on the staging area, perimeter fencing may be used if none is currently in place. Substation and switching station construction activities will use the existing substation and switching station yards and utility-owned lands for staging. Precise locations will be determined at the time of construction. Refer to Table 3.5-2 for details on potential staging sites that may be used during construction.

Table 3.5-2. Potential Staging Areas – Approximate Area

Potential Staging Area[a] (with Landing Zone, LZ)	Staging Area Use	Total Area Evaluated (acres)[b]	Existing Land Cover
Staging Area 1 (LZ1) North of E Kettleman Ln PG&E Lockeford Substation	Receiving, staging, laydown area, construction worker parking, and helicopter landing/pick up materials	4.30*	Barren/Ruderal
Staging Area 2 (LZ2) East of N Locust Tree Rd	Helicopter landing/pick up materials	0.17	Barren/Ruderal

Potential Staging Area[a] (with Landing Zone, LZ)	Staging Area Use	Total Area Evaluated (acres)[b]	Existing Land Cover
Staging Area 3 (LZ3) North of E Thurman Rd PG&E Thurman Switching Station	Receiving, staging, laydown area, construction worker parking, and helicopter landing/pick up materials	1.71*	Barren/Ruderal
Staging Area 4 West of Jack Tone Road	Receiving, staging, laydown area, construction worker parking	5.54	Barren/Ruderal
Staging Area 5 LEU Industrial Substation Yard	Staging and laydown area	0.49	Gravel
Staging Area 6 (East of North Jory Road)	Receiving, staging, laydown area, construction worker parking	6.25	Barren/Ruderal
Staging Area 7 North of E Kettleman Ln	Receiving, staging, laydown area, construction worker parking	6.25*	Barren/Ruderal
Staging Area 8 North of E Harney Ln	Receiving, staging, laydown area, construction worker parking	6.25	Abandoned vineyard
Staging Area 9 North of E Kettleman Ln	Receiving, staging, laydown area, construction worker parking	6.25	Barren/Ruderal

[a] Potential staging areas outside of station fence lines representative of approximately 10 to 15 acres that may be used.

[b] Includes total area evaluated for potential use; actual staging area footprint will be refined following discussions with landowners. Land cover is based on the National Agriculture Imagery Program, 2019. Acreage with * indicates potential selection of areas totaling between approximately 10 to 15 acres.

Staging area sizes will vary depending on negotiations with landowners to establish the temporary construction easements.

3.5.2.2 Staging Area Preparation

Prior to use, sites without a paved or stabilized surface will require minor site preparation such as placement of aggregate base. If the area is used in the wet season, construction matting or up to approximately 6 inches of aggregate base may be laid down over geotextile fabric, as needed, and removed after construction. If the area was previously disturbed or graveled, newly installed gravel may be left permanently in place with landowner approval. Some areas may require vegetation removal. If site conditions are uneven, minor grading could be required to establish a suitable surface for equipment operation and material laydown. For areas without existing fencing, a temporary chain-link fence with secured gates will be installed.

Power will be provided to staging areas through a temporary overhead service drop if existing distribution facilities allow. If grid power is not available, portable generators may be used to provide power (typically approximately 2,000 watts or less). Following their use, equipment, materials, matting, and supplies will be removed from staging areas, and the area will be returned to conditions that allow for pre-project land uses. All site improvements will be subject to conditions stipulated in easements obtained from landowners.

If nighttime work is necessary in the work areas, temporary flood lighting will be situated and directed away from any adjacent properties. Nighttime work may be required when electrical clearances are available or for safe completion of a construction procedure.

3.5.3 Construction Work Areas

Figure 3.5-1 includes preliminary project maps showing the proposed transmission line segments, substation and switching station, preliminary structure work areas, preliminary pull-and-tension sites, potential staging areas, and access roads and routes.

3.5.3.1 Construction Work Areas

Construction work areas in PG&E Bellota, PG&E Brighton, PG&E Lockeford, and PG&E Rio Oso substations, PG&E Clayton Hill Repeater Station, and PG&E Thurman Switching Station, and LEU Guild and LEU Industrial substations will be used for:

- Vehicle and equipment parking
- Material delivery and staging
- Limited equipment and vehicle maintenance and fueling
- Equipment operation
- Structure foundation excavation, drilling, construction, or removal
- Equipment assembly and installation
- Any structure-specific activities associated with pull-and-tension sites/stringing

Work at PG&E Lodi Substation is expected to be limited to within the control enclosure to update the system protection scheme.

Construction work areas outside of stations are expected to be within new transmission line segment ROW, existing adjacent transmission line ROW, and/or existing power line ROW or franchise.

Transmission line structure and pull-and-tension site work areas may be used for:

- Vehicle and equipment parking
- Material delivery and staging
- Limited equipment and vehicle maintenance and fueling
- Equipment operation
- Structure foundation excavation or drilling and construction
- Monopole assembly and installation
- Structure-specific activities associated with pull-and-tension sites/stringing

Pull-and-tension equipment and reel staging, temporary pole anchor installation, and pulling and tensioning of the conductor will occur within pull-and-tension work areas.

Power line structure work areas may be used for:

- Vehicle and equipment parking
- Material delivery and staging
- Limited equipment and vehicle maintenance and fueling
- Equipment operation
- Structure-specific activities, including reconfiguring the 60 kV lines, replacing or reframing existing wood poles, removing spans, connecting adjacent lines, and topping wood poles.

Service and feeder line work areas are expected to include work areas at structures to transition between overhead and underground segments and to remove the existing distribution underbuild; pull-back areas for HDD; vault and trenching excavations, installation, and backfill; and cable reel staging and cable pulling.

Telecommunication activities by Comcast are expected to occur at the PG&E pole and at adjacent joint utility poles.

Temporary guard structures may be installed over roads, waterways, or other features during pull-and-tension activities.

3.5.3.2 Work Area Disturbance

Work area disturbance is expected for line and station work. The expected maximum area of disturbance by project component is discussed in this section.

Approximately 12.04 acres of temporary ground disturbance and 11.32 acres of permanent ground disturbance will occur at LEU Guild Substation, PG&E Lockeford Substation, and PG&E Thurman Switching Station to construct and expand station areas, as detailed in Table 3.5-3. Temporary work area disturbance within LEU Industrial Substation, PG&E Bellota Substation, PG&E Brighton Substation, and PG&E Rio Oso Substation will occur within the existing fence line and will not add to the existing permanent facility disturbance. LEU Industrial Substation modification will be within the existing fence line on approximately 0.70 acre in the eastern portion of the facility. LEU Industrial Substation's construction activities, deliveries, and parking are planned to occur within this area. Work area disturbance is not expected for PG&E Lodi Substation or PG&E Clayton Hill Repeater Station.

For new tangent structures located in areas without orchards and vineyards, work sites of approximately 80 feet by 80 feet typically will accommodate framing the new monopole structure on the ground and setting the structure with one crane pick, which reduces the duration of the structure's construction. For each angle or dead-end structure, a larger work area that spans the project ROW, approximately 8,000 to approximately 12,000 square feet (0.2 to 0.3 acre), will be required to assemble and install these larger structures. Tangent structures are expected to be installed for approximately 70% of the lines. A smaller in-line structure work site footprint, including the 60 kV work areas, is estimated to be approximately 50 feet by 50 feet (approximately 2,500 square feet or 0.07 acre). Work area length and width will be adjusted to minimize agricultural impact and avoid unnecessary road or rail encroachment.

Pull-and-tension sites typically will be at angle towers, certain dead-end structures, and at intervals of approximately 1 mile to approximately 2.5 miles along straight segments of the transmission line; each site will require approximately 0.11 to approximately 0.21 acre, as shown on Figure 3.5-1.

The work site required for guard structure installation and removal, when netting is needed, will be approximately 100 square feet per pole, assuming four poles, guard structure work areas are estimated at approximately 4,500 square feet. A summary of the anticipated approximate temporary work areas needed for project construction is included in Table 3.5-3. Anticipated approximate totals use the larger value when a range of area or length is shown.

Table 3.5-3. Work Areas Estimated Footprint

Project Component	Anticipated Approximate Metrics
Pole Diameter:	
• Wood (guard structure or construction power)	24 to 36 inches
• Light-duty steel (60 kV line)	22 inches
• 60 kV Monopole in LEU Industrial Substation	4 feet
• Tubular steel (230 kV line)	3 to 7 feet

Project Component	Anticipated Approximate Metrics
Auger Hole Depth: • Wood (guard structure or construction power) • Light-duty steel (60 kV line) • 60 kV Monopole in LEU Industrial Substation • Tubular steel (230 kV line)	 up to 7 feet 13.5 feet 20 feet 20 to 38 feet
Permanent Footprint per Pole: • Light-duty steel (60 kV line) • 60 kV Monopole in LEU Industrial Substation • Tubular steel (230 kV line)	 2.6 sq. feet 12.6 sq. feet 7.1 to 38.5 sq. feet
Number of Poles: • Wood (guard structure) outside of other work areas • Wood pole replaced with light-duty steel (60 kV line) • Removed or modified (top cut off) existing 60 kV wood pole • 60 kV Monopole in LEU Industrial Substation • Tubular Steel (230 kV lines and RO1 replacement)	 20 1 27 2 73
Average Work Area around Poles: • Power line work areas • Guard structure wood pole work areas • Tangent transmission structure work areas • Angle/dead-end transmission structure work areas • Pull-and-tension work areas (approximately 20)	 2,500 sq. feet 4,500 sq. feet 6,400 sq. feet 8,000-12,000 sq. feet 5,000-9,000 sq. feet
Total Temporary Pole Work Areas (outside of stations)	20.92 acres
Total Permanent Footprint for Poles (outside of stations) *New permanent poles are 230 kV tubular steel poles (73). Existing 60 kV poles are removed, topped, or replaced in-kind.*	0.06 acre
Underground (12 kV) service or feeder line components: • Underground PG&E secondary station service line, pull box • Underground LEU customer feeder line, pull box • Permanent footprint per pull box	 1 line, 2 boxes 1 line, 1 box 15 sq. feet
Average Work Area for each end of underground lines: • PG&E service line extension – HDD work area • PG&E service line extension – trench work area • PG&E service line extension – trench excavation area • PG&E service line extension – splice box excavation area • LEU feeder line relocation – HDD work area • PG&E service line extension – splice box excavation area	 900 sq. feet 3,800 to 6,160 sq. feet 245 to 300 sq. feet 900 sq. feet 24 sq. feet 35 sq. feet
Total Temporary Service or Feeder Line Work Areas (outside of stations)	7,419 sq. feet
Total Permanent Footprint for Pull Boxes (within station or paved areas)	45 sq. feet
Construction Staging Areas outside of Station Fencelines	10 to 15 acres

Project Component	Anticipated Approximate Metrics
Station Work Area Disturbance: • PG&E Lockeford Substation (temporary – grading or blading) • PG&E Lockeford Substation (permanent – expanded fenced area, extended drainage ditch) • PG&E Thurman Switching Station (temporary – grading, and permanent – fenced area, and driveways) • LEU Guild Substation (temporary – grading, and permanent – fenced area and driveway) • LEU Industrial Substation (temporary–- grounding grid expansion) • PG&E Bellota, Brighton, and Rio Oso substations (temporary[a])	 3.00 acres 2.32 acres 5.75 acres 3.25 acres 1,600 sq. feet 54 sq. feet each
Total Temporary Footprint for Stations	Approximately 12.04 acres
Total Permanent Footprint (new and expanded) for Stations	Approximately 11.32 acres
Total Temporary Footprint for All Work Areas	Approximately 48.15 acres
Total Permanent Footprint for (new and expanded) Stations, Poles, and Pull Boxes	Approximately 11.39 acres

[a] Disturbance will not occur if line tuner/wave trap is retired in place.

3.5.3.3 Temporary Power

PG&E Bellota, PG&E Brighton, PG&E Lockeford, PG&E Lodi, and PG&E Rio Oso substations, PG&E Clayton Hill Repeater Station, and LEU Industrial Substation have existing station power that will be used for construction. PG&E does not expect to use generators. Power outside of stations will be obtained by PG&E from batteries or other on-equipment and vehicle power sources. Temporary power required for construction of LEU Guild Substation will be supplied by tapping into existing LEU 12 kV power lines at LEU Industrial Substation along the south side of East Thurman Road or the south side of East Lodi Avenue, which are the adjacent roads to the south and north of the substation site. Any poles will be within the area or included as substation work area disturbance. During construction at LEU Industrial and LEU Guild substations, up to two approximately 100 kW diesel generators each may be used to supply temporary power.

3.5.4 Site Preparation

The initial surveying and staking provide the site preparation activities to perform utility identification and relocation, work area access and structure location staking, vegetation clearing, tree trimming or removal, work area stabilization, and grading.

3.5.4.1 Surveying and Staking

Surveying locates and rough grade staking installs horizonal and vertical stakes to outline the work area, access, or structure location for utility identification and construction work area definition. Typical surveying and staking techniques and hand equipment would be used.

3.5.4.2 Utilities

PG&E's engineering team and LEU's engineering team have taken into consideration the location of other known underground and overhead utilities in designing the project. PG&E and LEU have conducted field reconnaissance surveys for existing utilities as part of preliminary project engineering. Based on these surveys and review of the current utility records, the preliminary designs have no permanent impact on power, natural gas, communications systems, or any other utilities that are specifically documented.

Additional utility identification will occur in the final design stages. Prior to beginning any ground-disturbing work, PG&E and LEU will each contact Underground Service Alert (USA) at 8-1-1 to notify utility companies to mark and locate existing underground structures within the staked area. In addition, PG&E and LEU will probe and expose existing utilities, in accordance with state law, before using power equipment. A determination on the need to relocate utilities will be made during final engineering. PG&E and LEU also will review their current utility records for any changes to their utilities identified during the preliminary project design and will address those changes and other utilities to their final design. Localized underground utilities will be identified during final design and will be either avoided or relocated in coordination with the facility owner. Relocation of existing overhead or underground utilities that are not directly connected to the project is not anticipated at this time. PG&E and LEU will obtain emergency contact information for utilities that may be in close proximity or require monitoring during construction of the project. Construction methods may be adjusted by PG&E and/or LEU as necessary to assure that the integrity of existing utility lines is not compromised. In case of accidental service interruption to another utility, the affected utility will be immediately contacted by PG&E or LEU as appropriate to coordinate actions to restore service in a safe and timely manner.

In the event of a known conflict, PG&E or LEU will move the new structure or facility (12 kV line underground) to avoid the conflict by realigning the areas of subsurface excavation. PG&E or LEU may relocate the conflicting utility in agreement with the utility owner. PG&E or LEU may install a grounding rod system or use another method that would be equally effective to provide adequate operational and safety buffering.

Comcast will be contacted prior to the start of work on PG&E Lockeford-Industrial Line to coordinate the timing of removal of its telecommunication line on pole 4. Also, during the detailed design phase, PG&E and LEU will assess whether the temporary interruption of other utilities will be necessary. If deemed necessary, PG&E or LEU will obtain timely approval from other utilities and closely coordinate with them until those utilities are returned to service. Prior to construction, PG&E or LEU will obtain emergency contact information for utilities that may be in close proximity or require monitoring during construction of the project. In case of accidental service interruption to another utility, PG&E or LEU will immediately contact the affected utility to coordinate actions to restore service in a safe and timely manner.

3.5.4.3 Vegetation Clearing

No sensitive vegetation communities identified in local plans, policies, or regulations, or as designated by resource agencies, are present within the areas of expected vegetation removal. Sensitive vegetation communities and habitats defined by the CPUC, including wetlands and riparian habitat, are present. Table 3.5-4 summarizes the estimated temporary and permanent disturbance of the vegetation communities and include the anticipated areas of vegetation removal. Temporary disturbance includes construction all work areas and access outside of existing station facilities, and new and expanded station areas. Permanent disturbance includes pole footprints and new and expanded station footprints.

Table 3.5-4. Estimated Disturbance Within Vegetation Communities

Vegetation Community Type	Temporary Disturbance (approximate acreage[a])	Permanent Disturbance (approximate acreage[a])
Agriculture	48.83	0.73
Developed/Disturbed/Rural Residential Land Use	3.52	0.16
Grassland	25.86	10.23
Tree Cover	0.25	0.07

[a] Some project components overlap in GIS and the totals in this table were adjusted to avoid double counting approximate acreage.

Trees, ornamental landscaping, and agricultural crops, such as orchards, row crops, and vines, and grasses or other organic matter may be trimmed or removed for facility installation, construction access, and/or clearance requirements for operations or maintenance access needs. PG&E will coordinate with landowners when planning tree, ornamental landscape, agricultural, or other vegetation trimming or

removal on private property. LEU vegetation clearing is limited to clearing ruderal vegetation where LEU Guild Substation will be constructed and no notification will be required for the City of Lodi. Vegetation trimming and removal will be kept to the minimum necessary for structure placement, transmission line operation, and access. A certified arborist will be engaged by PG&E to review potential tree trimming and removal identified and conduct or direct tree trimming and removal prior to construction activities at a work location.

Table 3.5-5 summarizes the estimated agricultural crop removal needed to establish temporary work areas and permanent facility footprints and to maintain GO 95 conductor clearance. Permanent removal of vines and vegetation associated with structure footprint is estimated for the transmission line segments. Estimated agricultural crop removed to establish work areas and access is expected to be replaced in-kind after construction. Estimated agricultural crop removed for structure placement or GO 95 conductor clearance would not be replaced.

Table 3.5-5. Estimated Agricultural Crop Removal

Tree Type[a]	Approximate Count Removed to Establish Temporary Construction Work Areas and Access[b]	Approximate Count Permanently Removed for Structure Placement or Conductor Clearance
Orchard – Almond	28 trees	7 trees
Orchard – Walnut	17 trees	42 trees
Orchard – Cherry	73 trees	37 trees
Orchard – Apple	154 trees	97 trees
Orchard – Olive	80 trees	108 trees
Vineyards – Grape vines	4,089 vines	2,695 vines

[a] Tree identification and count estimates provided by PG&E arborist as of December 2022.

[b] New trees are expected to be planted where removed for construction work areas and access as mutually decided in a temporary construction easement agreement between the property owner and PG&E.

PG&E will coordinate with landowners when planning tree trimming or removal on private property. Tree and agricultural crop trimming and removal will be kept to the minimum necessary for structure placement and access for construction.

Site preparation of work areas will begin with confirming the estimated areas of vegetation to be removed either temporarily or permanently. Preconstruction bird nesting surveys and other preconstruction actions such as coordinating with the property owner would occur before vegetation removal would occur. Vegetation removal areas would be surveyed and marked for clearing and grubbing and be scheduled to occur before construction activities at the location.

A site preparation crew will remove vegetation along with other site preparation activities such as tree trimming, stabilizing access roads and routes, and installing stormwater erosion and sediment control measures. Following coordination with landowners and any preconstruction resource surveys, vegetation will be trimmed or removed with appropriate equipment, typically including manual clippers, chain saws, and forestry mulcher or flail mower (front loader attachment). During clearing activities for temporary disturbance areas, vegetation will be mowed or grubbed, leaving root systems intact wherever possible to encourage resprouting and to minimize erosion. However, some stumps may need to be removed to provide access or a level work area. Mowers, crawler backhoes, front-end loaders, and bulldozers are expected to be used to remove woody vegetation.

Generally, removed vegetation will be mulched or mowed in place and spread nearby or hauled offsite to either a commercial recycling/composting facility or landfill for proper disposal. Vegetation material may be stockpiled within the footprint of a substation or switching station and contained onsite until its removal for appropriate disposal.

3.5.4.4 Tree Trimming and Tree Removal

To ensure safe transmission line operation, the CPUC has issued GO 95, which specifies the required minimum distance between ground and conductors that must be maintained for a variety of land uses beneath transmission lines. FERC and NERC standards also are followed, as discussed previously. Safety conflicts can arise when agricultural practices (including harvesting, spraying, and pruning) encroach into the required safety buffer. Conflicts also arise when trees grow into these established clear zones. Efforts will be made to accommodate existing agricultural operations, such as increasing the required MGCC of 27 feet to maintain the necessary safety buffer zone for poles placed in cropland, vineyards, and orchards. These design guidelines will accommodate existing crops as much as practical while ensuring safe operation of the new line. The guidelines include:

- Use of monopoles in place of steel lattice towers in cropland, vineyards, and orchards to minimize the area of disruption.
- Selection of pole heights in existing cropland, vineyards, and orchards to accommodate the following concerns:
    - Vineyard and cropland: The structure heights will allow conductor compatibility with field crops, row crops, and vines. No annual crop removal or pruning is anticipated. The typical MGCC of 27 feet is compatible with this land use type to avoid permanent crop removal.
    - Orchards: Where feasible, the height of the monopoles will be increased to provide an MGCC of up to approximately 45 feet to accommodate orchards planted with mechanically harvested nut trees, such as almonds and pistachios, as long as the CPUC's GO 95 conductor safety buffer can be maintained without requiring pruning. There may be instances when the MGCC cannot be sufficiently increased to provide the GO 95 conductor safety buffer, in which case the trees would be removed. These determinations will be made on a case-by-case basis. Manually harvested fruit trees, such as citrus and persimmon, typically are maintained at an approximate 15-foot maximum production height, which is compatible with the MGCC of approximately 27 feet. Any tree that encroaches on the GO 95 conductor safety buffer zone will be removed.
    - Incompatible orchard trees: An incompatible orchard tree is defined as any tree that has the genetic makeup to grow tall enough to encroach upon the GO 95 conductor safety buffer without pruning. Walnuts, almonds, or any mechanically harvested tree that has the potential to grow taller than 10 feet will be permanently removed from the transmission line ROW.

Removal or substantial trimming of orchard, landscape, or nonorchard trees is expected within electric line ROWs for GO 95 conductor clearance or facilities footprints tabulated in Table 3.5-5 (refer to Figure 5.2-1 for an overview of existing agricultural use) and Table 3.5-6 (refer to Potential Landscape Tree Trimming or Removal Required points on Figure 3.5-1). One large Eucalyptus near the west end of East Sargent Lane and three large Eucalyptus adjacent to the span between W43 and W45 are expected to be heavily trimmed or removed and not replaced for CPUC GO 95 conductor clearance for the PG&E Lockeford-Lodi No. 1 60 kV Line (preliminary name) and the PG&E Lockeford-Thurman 230 kV Line, respectively. On the PG&E Lockeford Substation parcel where the substation fence and replaced drainage ditch will be located, an estimated 15-18 Black walnut trees are expected to be removed and not replaced.

Based on current conditions, potential trimming of landscape trees or nonorchard trees along access roads is expected to occur to create sufficient clearance for typical construction vehicle and equipment movement and turning (refer to Potential Landscape Tree Trimming or Removal Required points on Figure 3.5-1 and Table 3.5-6). Landscape tree removal along access roads is not anticipated; however, conditions at the time of construction may require some tree removal for safe access. Native oak trees protected by San Joaquin County may be trimmed or removed as necessary to protect electric lines and facilities and are exempt from this county natural resource regulations under Section 9-1505-8 General Exemptions (MuniCode 2023).

Table 3.5-6. Potential Landscape Tree Trimming or Removal

Page[a]	Tree Location Description	Tree Type and Size	Qty[b]
	Potential Trimming Expected		
5	Between E10 and E11 in new 230 kV ROW	Oak (*Quercus sp.*), large	1
5	Along access to E11 off Smith Road	Weeping willow (*Salix babylonica*), large	1
5	East of E11 in new 230 kV ROW	Oak, large	1
7	Along access to E16 off East Kettleman Lane	Ornamental tree, large	1
8	Along access to E17 off East Kettleman Lane	Landscaped/row trees, small-medium	20
8	Along access to E18 off North Jack Tone Road	Shrub, small	1
9	Along access to E21 off East Kettleman Lane	Row trees, Eucalyptus, large	2
9	Along access to E21 off East Kettleman Lane	Row trees, ornamental, small	4
9	Along access to E23 off East Kettleman Lane	Row trees, walnut (*Juglans sp.*), other, small	5
12	Along access to W9 off East Harney Lane	Mexican palm (*Washingtonia robusta*), large	2
12	Along access to W9 off East Harney Lane	Ornamental tree, medium	1
13	Along access to W13 off Route 88	Ornamental tree, medium	2
15	Along access to W18 off North Locust Tree Road	Oak, large	2
19	Along access to W29 off East Kettleman Lane	Sycamore (*Platanus sp.*), large	1
19	Along access to W31 off North Vintage Road	Pine (*Pinus sp.*), large	2
20	Along access to W32 off East Kettleman Lane	Ornamental trees, medium-large	5
	Potential Removal Expected		
9	PG&E Lockeford Substation property	Black walnut, medium and large	18
23	South of new 60 kV span near East Sargent Road	Eucalyptus, large	1
23	Between W45 and W44 near 230 kV ROW	Eucalyptus, large	3

[a] Refer to referenced page of Figure 3.5-1 for potential landscaping points.

[b] Qty = Quantity, estimated quantity where trees are close together.

Following coordination with landowners and any preconstruction resource surveys, trees will be trimmed or removed with appropriate equipment, typically including manual clippers, chain saws, and forestry mulcher or flail mower (front loader attachments). During clearing activities for temporary disturbance areas, vegetation will be mowed or grubbed, leaving root systems intact wherever possible to encourage resprouting and to minimize erosion. However, some stumps may need to be removed to provide access or level work areas. Mowers, crawler backhoes, front-end loaders, and bulldozers are expected to be used to remove some trees.

3.5.4.5 Work Area Stabilization

If a work area or access is used in the wet season, construction matting or up to approximately 6 inches of aggregate base may be laid down over geotextile fabric, as needed, and removed after construction. Unpaved roads may need to be winterized to accommodate heavy loads. Based on final design and construction scheduling, winterizing of the existing roads may include blading, compaction, rocking, culvert installation, and aggregate placement as described previously. For example, approximately 4 to 6 inches of surface gravel will be imported and installed within the LEU Guild Substation footprint and along the new internal all-weather access road. Gravel placed in construction staging areas within LEU Guild Substation will remain.

3.5.4.6 Grading

Earth moving or substantial grading (below an approximate 6-inch depth) is not expected to be necessary to establish the transmission line structure work or pull-and-tension areas. The expected limited surface blading, grading, and filling to create a stable and level work area—for instance, to create a stable crane platform—may occur on an as-needed basis as part of site preparation. At slope transitions, native fill, steel plates, construction mats, or earthen ramps will be placed to cross over uneven terrain or abrupt changes in topography. A conservative estimate assumes that approximately 5,605 cubic yards (yd^3) will be offloaded for transmission line work, with approximately 22.5 acres to be graded, to create a level work area around each pole for safety. No grading is expected for 60 kV, service, or feeder line work areas.

At LEU Guild Substation, PG&E Lockeford Substation, and PG&E Thurman Switching Station, grading will occur to level each site and create or modify the facility's water retention pond and any associated stormwater drainage. No grading is planned at PG&E Bellota, PG&E Brighton, PG&E Lodi, or PG&E Rio Oso substations or at PG&E Clayton Hill Repeater Station, nor at LEU Industrial Substation.

To the greatest extent possible, all cut materials from the substations and switching station will be reused as fill following suitability testing. Representative samples of excess soil will be collected, analyzed, and profiled for disposal in accordance with all federal, state, and local regulations. Engineered fill material or clean fill will be imported as needed to accomplish the necessary compaction and final grade.

Based on preliminary grading design, earthwork activities for LEU Guild Substation are anticipated to result in approximately 6,100 yd^3 of cut and fill, balanced onsite. An expected approximately 3,550 yd^3 will be cut from the substation site, with approximately 1,200 yd^3 from the approximately 190 foot by 60 foot by 4 foot retention basin. Approximately 1,000 yd^3 of the total cut material is planned to be reused, and the remaining approximately 2,550 yd^3 will be hauled offsite to North County Recycling Center and Sanitary Landfill in Lodi, or other appropriate facility described in Section 3.5.12.1. Approximately 1,500 yd^3 of clean fill is expected to be hauled to the project site.

For site grading activities at PG&E Lockeford Substation, the estimated cut and clean fill volume for site grading is expected to be approximately 873 yd^3 and 1,777 yd^3, respectively, resulting in the total net clean fill volume of approximately 904 yd^3 to be imported to the site. The anticipated maximum cut and fill height in the general grading area is approximately 0.75 feet and approximately 1.2 feet, respectively. The maximum cut height of the retention pond expansion and drainage ditch modification is approximately 2.3 feet with the total cut volume of approximately 570 yd^3, which already has been included in the total cut volume mentioned previously.

At PG&E Thurman Switching Station, the estimated total cut and clean fill volumes are expected to be approximately 4,890 yd^3 and approximately 1,684 yd^3, respectively, with the net cut volume of approximately 3,206 yd^3 to be hauled offsite, expected to be North County Recycling Center and Sanitary Landfill in Lodi or other appropriate facility described in Section 3.5.12.1.

With no contaminated soils expected on the project site, clean spoils excavated for the project will be used onsite to balance cut and fill calculations, as feasible.

3.5.5 Transmission Line Construction (Aboveground)

3.5.5.1 Poles/Towers

LEU Training Poles

The LEU wood training poles, which are not treated with creosote, will be removed using bulldozer and excavator during substation site preparation. Poles may be cut into sections onsite for removal on a truck to an appropriately licensed landfill. The pole holes will be filled with compacted soil reused from substation site preparation grading cut. The existing footprint of these training poles is within the substation site and the small existing footprint is not totaled separately.

PG&E and LEU Power Poles

Replacement, modification, or removal of PG&E 60 kV power line wood poles will use ground-based construction. Pole modification is expected to include replacing existing framing, or topping an existing wood pole after removing the existing 60 kV conductor and framing. New LEU power pole installation is described similarly to the pole replacement description without the later step of moving the old conductor and removing the old pole.

Pole replacement consists of six basic steps that are coordinated with line clearance(s):

1. Deliver new pole at pole site.
2. Auger new hole using line truck attachment.
3. Install bottom section by line truck.
4. Install top section by line truck.
5. Install new, or move old, conductors to the new poles with a line truck or by hand with ropes.
6. Remove old poles by line truck and fill hole.

A line truck with trailer and a potential second truck (crew cab truck and/or half-ton pickup) will be used to access the majority of the pole sites for pole installation and removal, or structure arm replacement on existing wood poles. A maximum of approximately four or five truck trips are anticipated to each pole site. The truck trips to the site are to deliver the pole, auger the hole, set the new bottom section, set the new top section, and remove the old pole.

Each pole site is expected to be accessed approximately one or two days during construction. Pole sections will be delivered in matched pairs to each new pole site. A line truck and trailer can transport between approximately two and three poles. When delivering and removing poles, the line truck will be expected to access approximately two or three sites per trip per day as schedule and conditions permit. Additionally, pole delivery, augering, and setting the bottom pole may occur in one day during a single trip.

New poles will be placed in holes made with a line truck auger attachment (highway digger with approximate 15- to 18-foot depth capacity); no separate foundations will be used. New poles typically are expected to be within approximately 5 feet from existing poles and in line with the existing power line alignment. The new pole holes typically will be approximately 5 to 6 feet deeper than the existing pole depths. A water truck may be used during augering to keep the soil firm. Augered pole holes will be covered with a steel plate until the new pole is installed.

The two new 60 kV poles within LEU Industrial Substation will have approximate 4-foot-diameter by 20-foot-deep drilled pier foundations. A hole digger will be used to excavate the foundation.

To assemble the light-duty steel poles, a line truck with a boom attachment will be positioned at the pole site to land the top section on the bottom section. A truck with a worker lift attachment will be positioned to allow a worker to guide the top section into place and to secure the two sections. Top sections will be installed when a line clearance can be scheduled. Clearances will be issued day to day during daylight hours and are not typically issued overnight during the summer or during peak load conditions. Setting the pole top sections may be performed on separate days to accommodate line clearance schedules and environmental seasonal work restrictions. If installed at separate times, the top section would remain at the pole site until assembled to the bottom section. Frame replacement on existing wood poles would use a line truck with a boom and an aerial lift. Old crossarms would be removed from the site by line truck and taken to the PG&E Victor Service Yard for processing, or to an appropriate landfill.

A hydraulic jack mounted on a line truck is expected to be used to loosen old poles as needed. A line truck will be used to access and remove PG&E Lockeford-Industrial pole 13 and the eight pole tops on PG&E Industrial Tap. The pole will be secured by the line truck, and a chainsaw will be used to remove the top portion of the pole after the 60 kV conductors and framing are removed. When entire poles are removed, they may be cut into sections onsite for removal on a line truck potentially with a trailer. Wood poles and sawdust generated by removing existing PG&E 60 kV wood poles will be considered treated wood waste.

The process for identifying and managing treated wood waste is discussed in Section 3.5.12.1. When old poles are removed, the soil removed while augering the replacement pole hole will be used to backfill the old pole hole; any unused soil will be feathered in around the replacement pole site.

PG&E Transmission Line Tubular Steel Poles

Foundations. Monopole foundation types will be adjusted to address subsurface geotechnical conditions or to manage other constraints. Generally, it is expected that a monopole foundation will be either directly embedded, with aggregate or slurry backfill, or will be a single drilled-shaft reinforced-concrete caisson. Drill rigs will be used for the expected type of monopole foundation excavation needed. Steel casings may be used to stabilize subsurface soils; these will be advanced by the drill rig or a vibratory hammer attached to a crane or a combination of these methods. The spoils created by the foundation excavation will be handled in a manner that will minimize impacts to crop productivity through soil profile management, as appropriate. The surface and subsurface layers will be stockpiled separately and returned to their approximate locations in the soil profile, or will be disposed of offsite at an approved disposal location.

Typical excavations for structure foundations will range from approximately 6 to 9 feet in diameter and approximately 18 to 30 feet in depth; some foundations could be larger depending on site-specific geotechnical conditions. A conservative estimate of up to approximately 848 yd^3 per foundation will be assumed. Foundation excavation spoils will be used for fill at station construction as feasible, will be spread onsite, or will be disposed of appropriately and handled in a manner that minimizes impacts to agricultural productivity and water quality. Where excavated soils cannot be spread onsite, they will be stockpiled and given to a nearby landowner or properly disposed of in keeping with applicant-proposed measures in Section 5.9, Hazards and Hazardous Materials. A temporary stockpile of excavated soil may be located near an excavation.

For anchor-bolted caisson foundations, crews will place the cage support and formwork into the excavation; the steel reinforcement cage will be installed by crane. The cage may include full-length anchor bolts and ties (or shorter-length anchor bolts along with full-length steel reinforcement bars), as well as spacers to provide minimum concrete cover, as required by code at all faces of the completed foundation. The cage may be assembled onsite or offsite at a project staging area. A typical monopole caisson foundation will require approximately 21 to 75 yd^3 of concrete depending on the pole. Concrete from a commercial concrete supplier will be delivered by truck directly to structure work sites. After the concrete has reached an acceptable strength, typically between approximately 7 and 28 days, the cage supports can be removed and the pole sections may be installed.

Alternative foundation types may be considered where required by subsurface geotechnical conditions, project schedule, or other constraints. These could include screw piles and micropiles, rock anchors, pad and pedestal or shallow foundations, and grillages. If micropiles are required at a foundation location (approximately 4 to 16 or more per location is typical), these generally will extend deeper than piers. Additionally, a concrete or steel cap is sometimes required to transfer the structure loads to the foundation elements. Shallow foundations may be used in areas where hard rock occurs, or where conditions are difficult for excavation. Track-mounted shovels would be used for this type of excavation for shallow foundations. Based on preliminary geotechnical borings, blasting is not anticipated for foundation construction. Embedded steel foundation types will be designed with consideration of corrosion potential over the design life of the structure.

Delivery and Assembly. Flatbed trucks will deliver materials to the site. Monopoles will be delivered to the work site in sections by tractor-trailer or by specialized delivery equipment in areas of constrained access.

Monopole structures are expected to be installed through a “two-pick” process also called “stick framing.” Stick framing requires that each section be installed in place: the first section is lifted onto the foundation or directly embedded base section; then subsequent sections and arms are set in place, one at a time, requiring multiple crane picks.

The most efficient way to install a pole structure is to lay the top pole section on the ground, then frame may be installed on the top section on the ground before lifting the pole top with frame structure in a single crane operation or pick. As an alternative, the contractor may choose to use existing disturbed areas, such as access roads, to frame structures on the ground. A longer work area could be used to accommodate framing the entire pole structure on the ground and setting with one crane pick.

Following successful completion of the excavation for direct-embedded foundations, crews will stage equipment for setting the pole base section. Approximately 1.5 feet of crushed stone backfill will be placed at the bottom of the excavation. The pole base section will be lowered into the excavation, set on the crushed stone backfill, and oriented such that the structure arms will be perpendicular to the ROW alignment. The pole base section will be secured after orientation, and either slurry backfill or aggregate (crushed rock) backfill will be placed in the void between the pole base and the excavation walls. If aggregate backfill is used, the backfill will be compacted to achieve required lateral capacity as per design. Salvaged soil will be replaced around the base of the structure to create positive drainage away from the structure foundation. After the aggregate backfill has been adequately compacted and placed, the base section supports can be removed and the top section(s) of the structure may be installed.

Structure installation will be conducted with typical ground equipment, such as cranes, flatbed trucks, crawler tractors, and line trucks. Structure arm assembly will be conducted within the structure work sites. The sections typically will be framed at ground level, using the crane and cribbing to keep the assembly off the ground. These assemblies typically include the arms, insulators, and hardware necessary to support the conductors. The base section will be lifted using the crane and then attached to the foundation anchor bolts or the bottom section of direct-embedded structures. Subsequently, framed sections will be lifted into place by the crane. Structure arms will be tied down or weighted to prevent damage from vibration caused by wind prior to the conductors being installed. Traveler pulleys will be hung in preparation for conductor installation. OPGW and conductor installation will connect the poles to the system.

PG&E Transmission Tower

The existing terminal lattice steel tower (RO1) of PG&E Rio Oso-Lockeford and PG&E Lockeford-Bellota Transmission Line at PG&E Lockeford Substation will be replaced with a new TSP using the process and equipment described for the construction of the other new 230 kV TSPs.

When the existing conductors for both circuits are transferred to the new structure during associated line clearances, crews can begin disassembling and removing the existing lattice steel tower. Tower removal may occur in two phases: the top section will be removed by crane, and the lower section will be removed by a boom truck. To remove the top section, a crane will be rigged to the top of the tower and sections will be unbolted or cuts will be made at the desired removal point. The structure will be lifted and lowered to the ground, where it will be cut into smaller sections and either transported to a laydown area or directly to a recycling facility. To remove the lower section, the legs will be cut off just above the foundations and a boom truck will remove the remaining sections. Existing foundations will be removed, including all concrete and steel, unless cutting them off below the ground surface will reduce environmental impacts. The excavation resulting from tower foundation removal will be filled in with soils excavated from the new TSP foundations.

PG&E Microwave Towers

A new microwave tower will be installed within PG&E Thurman Switching Station to establish a digital microwave path to PG&E Clayton Hill Repeater Station. The new microwave tower's slab foundation (approximately 25 feet by 25 feet by 5 feet) will be excavated with a front loader. The amount of excavated soil, approximately 116 yd^3, will be managed with the cut and fill on the PG&E Thurman Switching Station site. Approximately 160 yd^3 of concrete is expected to be used for the tower foundation. The foundation details will be refined during design based on geotechnical soil conditions and other site structure layout. The steel for the tower will be transported onsite by flatbed trucks and tower sections will be assembled onsite. The tower would be assembled with ground-based equipment, including aerial lifts

and a crane to lift tower sections into place. The installation will include attaching approximately two new approximately 6-foot-diameter antennas and waveguide cable using aerial lifts or boom trucks as needed.

Approximately two new approximately 6-foot-diameter antennas and waveguide cable will be installed on the northeast leg of the existing south tower within PG&E Clayton Hill Repeater Station to complete the new redundant communication path with PG&E Thurman Switching Station. A flatbed truck will transport the antennas and cable to the station. A boom truck or aerial lift will be used to lift the new antennas into place. The new waveguide cable will be installed along the tower leg and along the aboveground cable path into the control enclosure. No ground disturbance is planned.

3.5.5.2 Aboveground and Underground Conductor/Cable

The project will include removal and installation of aboveground conductors and wires, and installation of underground electrical and fiber cables. To remove in-service line sections, all colocated power or feeder lines and any third-party telecommunication lines that cross or are colocated will be taken out of service as part of the line clearances. Use of guard structures is discussed at the end of this section. Public safety and traffic control is discussed in Section 3.5.8.

Relocation of Overhead LEU Feeder Lines

The existing conductors and crossarms will be removed by constructions using a boom on the line truck and a line truck with a worker lift. Removed conductor and crossarms will be loaded onto a truck for transportation to an appropriate landfill facility. The underground portion of the LEU 12 kV feeder line between PG&E Lockeford-Industrial pole 2 and LEU Industrial Substation will be retired in place.

Installation and Removal of Aboveground LEU and PG&E Power Line Segments

During conductor installation or removal, the existing PG&E power line and any PG&E or LEU distribution or telecommunication lines that cross or are colocated on the line will be taken out of service as needed. For aboveground conductors that cross a UPRR track or are located within a railroad encroachment permit, construction activities will be coordinated with the railroad to avoid rail service interruption. Before conductor activities begin, in addition to any railroad coordination, any road crossings and other locations within the section of installation will be briefly closed or a rolling stop will be arranged. Any road closures that must occur on city and county roads are not expected to exceed approximately 5 minutes in duration. Any necessary permits will be obtained from the affected agencies.

New conductor lengths will be brought to the pole work area (or substation terminal structure) by line truck. The new conductors will be lifted to the new poles (or terminal structure) during any required clearance using the boom on the line truck and a line truck with a worker lift. The new spans of LEU Guild-Industrial 60 kV Line will be connected into respective terminal equipment. A compression splice will be used to connect the new conductor to the adjacent spans. The workers and compression equipment will be lifted to the conductor level at each pole to perform the splice. After the new conductors are in place, wire or conductor sags will be adjusted to a precalculated level at each pole. The conductors then will be clamped to the end of each insulator. The final step of the conductor installation will be to install vibration dampers and other accessories. Any temporarily closed road or railroad will be reopened at this time.

Conductors and framing will be removed from the western end of PG&E Lockeford-Industrial Line and select poles on PG&E Lodi-Industrial Line and PG&E Industrial Tap Line when each is de-energized. The boom on the line truck and a line truck with a worker lift are expected to be able to lift workers at each pole to cut the conductor, remove the framing, and top the pole as needed. The conductor will be secured with a rope before being cut to allow the conductor to be lowered safely to the ground. The conductor lengths will be removed by truck and trailer depending on the amount and taken to an appropriate landfill.

Relocation and Installation of Aboveground PG&E Transmission Lines

The conductor between PG&E RO1 and PG&E Lockeford Substation will be replaced when the new structure is relocated and the back span will be retensioned. At the eastern end of the new 230 kV line, the PG&E Brighton-Bellota Line span will be cut and spliced with the new conductor at E1. The process and equipment described for installation of a new conductor will be used for the relocated structure and the PG&E Brighton-Bellota Line take-off span, with the exception of using the existing conductor. Conductor and OPGW stringing will occur at each new transmission line structure as the conductors and wires are installed between structures. Transmission line work areas and pull-and-tension sites along the length of line being strung will be the primary work areas in use during installation activities. To haul the conductor to the pull-and-tension sites, reel trailers with reel stands will be mounted on line trucks or semi-truck trailers. When conductors are strung between structures, equipment at pull-and-tension sites is used to raise the conductors to the proper ground clearance height and to create proper line tension. The conductor stringing effort requires multiple reels of conductor to be installed from designated pull-and-tension sites.

Conductor stringing will proceed in discreet segments; the process will begin with pulling a sock line through the traveler pulleys installed during structure installation. A sock line (lightweight rope) typically is pulled by a light-duty helicopter (Hughes MD 500 or equivalent) and threaded through traveler pulleys affixed to structure arms while the helicopter hovers for approximately 10 to 15 minutes at the structure. One or more construction worker(s) may be lifted onto the structure or may work from the helicopter to facilitate conductor stringing.

When the sock line is laced through the travelers for the length of the pull, the sock line will be connected to a hard line (steel cable). The hard line will be on a reel that will be on a puller. Typically, the reel(s) and puller will be located on a line truck or semi-truck trailer. The sock line will be pulled back, with a helicopter pulling the hard line into place. The sock line will be removed from its connection to the hard line.

The conductor then is attached to the hard line and pulled through the travelers under its specified tension. A puller on a semi-truck trailer or a trailer-mounted puller then will pull the hard line, pulling the conductor in the reverse direction. The hard line will be removed from its connection to the conductor. After the conductor is pulled into place, the sags between the structures are adjusted to the design-specified ground clearance; minimum ground clearance will meet GO 95 specifications. The existing conductor is expected to be pulled into place by a person without using a sock line or hard line. The OPGW is strung in a similar manner as the conductor, with the helicopter stringing a sock line and a hard line that then pull the OPGW into position for tensioning.

When sagged, the conductor or wire can be dead-ended and clipped to the insulators or the structure, during which time the travelers are removed. The travelers will be removed by using the line truck with a bucket or a person may climb the structure. Refer to Figure 3.5-2.

When multiple reels of conductor are pulled for a line segment, conductor splices are required to join the two ends of conductor together. There are two types of conductor splicing methods proposed: (1) compression splicing, and (2) implosive splicing. Compression splices will be performed at structure work areas. At these locations, crews and equipment will be lifted to the conductor level to perform the splice. Compression splices generally are not pulled through conductor stringing blocks. Where splicing can occur at existing work areas, roads, and other disturbed areas, compression splicing likely will be used. Compression splicing will be used when in close proximity to sensitive receptors, such as residences.

When using the implosive splicing method, an aluminum sleeve with a layer of engineered explosive is placed over the conductor ends and designed to compress the sleeve on implosion. The implosive splices usually are completed at pulling sites and then pulled through the conductor stringing blocks. The number of reels that can be spliced and pulled in this manner usually is two or three because of limitations on the weight of and tension on the conductor during pulling. Implosive splicing will be completed by an individual who is licensed to perform those procedures according to all applicable laws and codes.

Implosive splicing will be used to avoid mid-span splicing work areas, particularly within orchards and vineyards.

3.5.5.3 Telecommunications

The new fiber optic cable, or OPGW, which will be installed in the top conductor position of the new transmission line, will be routed into the substation and switching station using a new underground conduit. On the last transmission line structure just outside the substation or switching station, the fiber optic cable will be installed down the structure connecting to the underground conduit and into the substation. Underground communication fiber cables are further described with the substation activities.

Secondary communication from PG&E Lockeford Substation to support PG&E's system protection scheme will occur using existing internal AT&T fiber lines connected with existing fiber lines adjacent to the substation.

3.5.5.4 Guard Structures

Temporary guard structures will be installed prior to conductor installation to protect vehicle and pedestrian crossings, railroads, waterways, irrigation ditches, and existing utilities should the conductor fall from the structures during construction. Where necessary, traffic control will be provided during installation and removal of these temporary guard structures, and as specified in City of Lodi, San Joaquin County, CVFPB, and Caltrans encroachment permits. In place of using guard structures over distribution lines, some existing distribution lines may be taken out of service when such outages are not in conflict with customer needs. If such outages are necessary, line outages will be coordinated in advance with each customer. Refer to Figure 3.5-1 for potential guard structure locations. Potential guard locations within other construction work areas are not marked.

Guard structures will be positioned and configured to catch and support the weight of the conductor if it unexpectedly drops or sags excessively during the installation or tensioning process. Guard structures may be created with line trucks or wood poles with crossbeams depending on the construction method chosen by the construction crew or required by a third-party facility (railroad, state route, or levee). Where wood poles are used, an auger will excavate holes where the wood poles will be embedded. A crane or line truck will place the wood pole in the hole. The excavated soil will be used to fill around and support the pole. Any excess excavated soil will be placed around the base of the structure to create positive drainage away from the pole. Two vertical poles will be connected by a horizontal pole used as a beam to provide the protection. During installation, equipment generally will be staged from existing roadways or disturbed areas. In instances where netting is required, crews will install temporary anchors and guy wires to support the H-frame structures. Refer to Figure 3.5-3. Guard structures may be in place for up to approximately one year to support the 230 kV overhead installation. When guard structures can be removed, either the line trucks will be removed from their guard position or the wood pole guard structure will be disassembled. Line trucks and wood pole guard structures will be reused and may be taken to staging areas or moved to the next guard structure position.

Temporary guard structures would be installed where the new lines cross existing infrastructure such as roads (approximately 35 structures) or other electrical lines (approximately 22 lines). They would require excavation of shafts from approximately 2 to 3 feet in diameter and up to approximately 7 feet in depth.

3.5.6 Underground Line Construction

The LEU 12 kV feeder line conversion, as described in Section 3.3.3.5, will have a total run below grade of approximately 750 feet and will include two new pull boxes. Refer to Figure 3.3-2b. The PG&E 12 kV line extension is expected to have an underground length of approximately 550 feet, depending on the location in franchise within South Guild Avenue, and one pull box as described in Section 3.3.3.6. Refer to Figure 3.3-2b. Both underground lines are planned to be installed via HDD with a portion of PG&E's 12 kV extension installed using an open trench process where the line will cross South Guild Avenue. The open

trench process and equipment are described in the following subsections, including the HDD and pull-box process and equipment. Refer to Figure 3-5.1 for construction work areas.

PG&E's conduit will be installed at least 3 feet away from the outside surface of any "wet" utility pipe when parallel to the pipe, and 6 inches from "wet" utilities when crossing over/under the pipe or if crossing a non-PG&E electric utility.

3.5.6.1 Trenching

After PG&E's 12 kV extension route is marked for construction, the pavement within the trench line will be removed by saw cutting (where applicable), followed by excavating the trench using a backhoe. Depending on the location, the length is expected to be between approximately 70 and100 feet across South Guild Avenue. The open trench depth would be an approximate minimum 42 inches to obtain an approximate minimum of 36 inches of cover, with an approximately 12-inch excavation width. The estimated cut and fill trench volume is approximately 12.75 yd^3. The actual depth and width of the open trench will vary depending on field conditions and conflicts with existing utilities. Where the electrical duct bank crosses or runs parallel to other substructures that have operating temperatures at earth temperature, a minimum radial clearance of 12 inches is required depending on the existing utilities within the route.

Up to approximately 13 yd^3 may to be excavated from an open trench. The soil, expected to be precharacterized during preconstruction potholing, will be either reused or placed directly into a truck and disposed of offsite at an appropriate landfill. Dewatering is not anticipated. If known or suspected hazardous waste is encountered during excavation or dewatering is required, the measures described in Section 3.5.10.2 and Section 3.5.12 will be implemented.

An approximate 4-inch cable conduit will be placed in the trench followed by backfill, which will be compacted. Restoration is based on matching the roadway's existing subbase and surface (asphalt, concrete, or a combination of both). A road base backfill or slurry concrete cap will be installed, and the road surface will be restored in compliance with the locally issued permits.

3.5.6.2 Trenchless Techniques (Horizontal Directional Drilling)

HDD is the expected trenchless technique to be used to install underground conduits for LEU's relocated 12 kV line and PG&E's extended 12 kV line. The HDD technology uses a hydraulically powered horizontal drilling rig supported by a drilling mud tank and a power unit for the hydraulic pumps and mud pumps. A variable-angle drilling unit will initially be adjusted to the proper design angle for the particular drill.

The first step will be to drill a fluid-filled pilot bore. The first and smallest of the cutting heads will begin the pilot hole at the surveyed entry point in the entry pit. An entry pit and an exit pit are required for each HDD to contain the drilling mud. In general, the work area required on both the entry and exit sites will be approximately 30 by 30 feet. The pavement for the pits and pull-box excavations will be removed by saw cutting. The entry and exit pits will be located where the planned pull boxes will be used for each 12 kV line. The excavation for a typical pull box is approximately 5 feet by 7 feet and 5 feet deep. The pit excavations are expected to be approximately 5 feet by 7 feet and 8 feet deep. Up to approximately 8 yd^3 will be removed per pit, with approximate 4 yd^3 expected to be reused for back fill. The pit walls will be shored with either a trencher's box or bracing.

The first section of the drill stem has an articulating joint near the drill-cutting head that the HDD operator can control. Successive drill stem sections will be added as the drill head bores along the specified route. The drill head then will be articulated slightly by the operator to follow a designed path under the crossing and climb upward toward the exit point. When the pilot hole is completed, a succession of larger cutting heads and reamers will be pushed and pulled through the borehole until it is the appropriate size for the approximate 4-inch or approximate 6-inch conduit for PG&E and LEU, respectively. Using this method, the relocated LEU 12 kV conduit will be installed between approximately 4 feet and 10 feet under the existing grade. The PG&E 12 kV extension is expected to be installed a minimum of approximately 3 feet below

grade but will be up to at least 15 feet underground when crossing under and within 30 feet of the railroad tracks.

A nontoxic, water-based lubricant containing water and bentonite clay, referred to as drilling mud, will be used to aid the drilling, coat the walls of the borehole, and maintain the opening. During the bore, drilling mud will be pumped under high pressure through the drill stem to rotate the cutting head and return the soil cuttings to a pit at the surface entry point. No additives considered hazardous according to federal and state laws will be used during the HDD process.

The drilling mud will be received in an approximately 6-foot by 6-foot pit. The drilling mud returned back through the bore-drilled hole will be pumped from the entry and exit pits to a processing/shaker unit where the soil cuttings are removed, allowing the drilling mud to be reused. It is anticipated that the majority of the drilling mud will be recycled by the drilling contractors and used on subsequent projects. Any excess clean drilling mud will be disposed of at an appropriate waste facility.

When the borehole reaches the correct diameter, the conduit will be pulled through the borehole until it surfaces on the other side. The installed conduit then will be connected to adjacent splice boxes and/or other sections of conduit, and the entry and exit pits will be backfilled. As part of the drilling design process, a geotechnical survey of subsurface conditions was conducted to determine the underlying geologic strata along the bore path. Infrequently, the geologic strata above the bore may be weaker than anticipated and/or unconsolidated. As the HDD passes under these locations, the high pressure of the drilling mud may result in a fracture of these strata, allowing drilling mud to rise to the surface. This situation is termed a "frac-out" and usually is resolved by reducing the mud system pressure or increasing the mud viscosity. If a frac-out occurs, the boring operation will be stopped immediately, and the following plan of action will be implemented:

- Isolate the area with straw bales, sandbags, or silt fencing to surround and contain the drilling mud.
- Remove the drilling mud using one of the two following methods based on the location and volume of mud leaching from the frac-out hole:
    - A mobile vacuum truck will be used to pump the drilling mud from the contained area. If the vacuum truck does not have a hose of the appropriate length, a series of one or more gasoline- or diesel-powered pumps may be connected to the vacuum truck to extend its reach. Each pump will be placed in a plastic tub or other form of containment.
    - The drilling mud will be removed with hand tools if the frac-out is small.

To facilitate the pulling and splicing of the cables for LEU's relocated 12 kV line, two underground pull/splice boxes (vaults) will be installed at the base of an existing LEU wood pole structure. One pull box will be installed at the southern end of the PG&E 12 kV extension. The pull boxes used for the project will be precast polymer concrete and traffic-rated boxes. The LEU pull boxes will be approximately 3 feet by 5 feet, and the PG&E pull box is expected to be approximately 3 feet by 5 feet with an approximate 42-inch depth. These splice boxes will provide access during operations to the underground cables for maintenance, inspection, and repair by the respective utility. A trencher will be used to excavate an approximate 4-foot by 6-foot excavation to an approximate 5-foot depth for the two LEU 12 kV pull boxes. Approximately 8.8 yd^3 are expected to be removed from the two LEU pull-box excavations. A backhoe is expected to create an excavation of approximately 5 feet by 7 feet to an approximate 5-foot depth for the PG&E pull box, removing approximately 6.5 yd^3. The pull boxes then will be connected to the underground conduits before being covered with at least approximately 2.5 feet of compacted fill. The area around each pull box will be backfilled with soil saved from the initial excavation. Restoration is based on matching the roadway's existing subbase and surface (asphalt, concrete, or a combination of both). A road base backfill or slurry concrete cap will be installed, and the road surface will be restored in compliance with the locally issued permits or agreement with the property owner.

After installation of the conduit, the cable will be pulled into the conduit, spliced at the pull boxes, and terminated at the transition where the lines convert to overhead. To pull the cable through the conduit, a

cable reel will be placed at one end of the section and a pulling rig will be placed at the other end. A large rope then will be pulled into the conduit using a fish line and attached to the cable-pulling eyes. The cable-pulling eyes will be attached to the cable and the cable will be pulled through the conduit. A lubricant will be applied to the cable as it enters the conduit to decrease friction during pulling.

Dewatering is not anticipated. Precharacterization of soil and any groundwater is expected to occur during preconstruction potholing activities. If known or suspected hazardous waste is encountered during excavation, dewatering is required, or drilling mud requires management beyond what is described, the measures described in Sections 3.5.10.2, Section 3.5.12.2, and/or Section 3.5.12.3 will be implemented. Excavated soil is expected to be used for backfill unless the soil is unsuitable compaction or contains potential or known hazardous material. Engineered fill is not expected to be used as backfill.

3.5.7 Substations and Switching Station

The information that follows describes each substation and the switching station and details the process and equipment for removing, installing, or modifying these facilities.

3.5.7.1 Installation or Facility Modification

PG&E Lockeford Substation Modification

An existing drainage V-ditch will be expanded along the eastern side of the expanded substation area to route expected stormwater into an expanded retention pond with riprap slope stabilization. The expansion of the retention pond will sufficiently accommodate the expanded area for the substation. There is no slope stabilization or retaining wall needed for the project. Select non-orchard tree removal and tree trimming, and grapevine encroachment removal is expected to occur in the area on PG&E property where the substation fence and drainage ditch is expanded. A PG&E arborist will review the fence staking and coordinate with crews conducting tree trimming and removal prior to minimize or avoid tree trimming and removal where possible.

Following the station, drainage ditch, and retention pond expansion, the existing substation fence line will be replaced in kind and expanded on the northern and eastern sides of the property. Next, construction activities include excavation and installation of the subsurface ground grid and conduit chases, installation of the paved interior roads, and excavation and forming and pouring of concrete footings and foundations for all the aboveground structures. The additional excavated material of approximately 719 yd^3 for foundation installations will be hauled offsite.

After the concrete has cured, the aboveground steel structures, circuit breakers, buses, dead-ends, and other electrical equipment, including associated control system hardware, will be installed. Equipment to be placed on slabs or footings will either be bolted or welded securely to meet the appropriate seismic requirements. All metallic structures within the substation will be connected to the station grounding grid. A final dressing of aggregate totaling approximately 1,280 yd^3 will be spread on all unpaved areas in the substation to provide an all-weather stable surface for operations and maintenance (O&M) activities while limiting the amount of impervious surface created to minimize site runoff.

To the greatest extent possible, all cut materials from the substations and switching station will be reused as fill following suitability testing. Representative samples of excess soil will be collected, analyzed, and profiled for disposal in accordance with all federal, state, and local regulations. Engineered fill material will be imported as needed to accomplish the necessary compaction and final grade.

Precharacterization of soil and any groundwater is expected to occur during preconstruction potholing activities.

The general sequence will be as follows:

- Expand and grade the substation to the north of existing 230 kV Bays 1 and 2; this will allow for construction of new Bays 3 and 4.
- Install the new modular protection, automation, and control enclosure and full BAAH bays at Bays 3 and 4.
- Clear PG&E Rio Oso-Lockeford 230 kV Line in Bay 2. Install new middle 230 kV circuit breaker in Bay 2 and install new double-bay dead-end on the east side of 230 kV Bus 2.
- Clear 230/60 kV Transformer 2 and 230 kV Bus 1. Reconnect Transformer 2 to the position between the new middle and left circuit breakers, using the tall dead-end structure. Remove the Bay 2 portion of the low dead-end structure between the middle and left circuit breakers. Connect existing 230 kV Bus 1 to the expansion portion of Bus 1.
- Connect the looped-in PG&E Brighton-Bellota Line into Bays 3 and 4, creating PG&E Lockeford-Bellota No. 2 and PG&E Brighton-Lockeford 230 kV lines.
- Clear 230/60 kV Transformer 3 and PG&E Lockeford-Bellota No. 1 230 kV Line. Install new circuit breaker in the right position of the BAAH bay of Bay 1. Remove the Bay 1 portion of the low dead-end structure between the middle and left circuit breakers. Reconnect PG&E Lockeford-Bellota No. 1 230 kV Line between the middle and right circuit breakers, using the new structure constructed in Step 3. Reconnect Transformer 3 between the middle and left circuit breakers. Connect the existing 230 kV Bus 2 to the expanded portion of Bus 2.
- Connect the new double-circuit PG&E Lockeford-Thurman 230 kV Lines No. 1 and No. 2 into the west positions of Bays 3 and 4.

After obstructions are removed from the area between Bays 1 and 2, Bay X will be installed. Concrete foundations will be installed to support the three new 230 kV circuit breakers, take-off structure, and air disconnect switches. Trenches will be dug between the new circuit breakers and the existing control enclosure. New conduits, and power and control wiring will be installed in the trenches, and the trenches will be backfilled. Three circuit breakers will be installed on the new foundations and power and control wiring will be connected. New conductors will be installed from the take-off structures to the buses and to the circuit breakers and air disconnect switches will be installed to provide electrical clearance points. Inside the control enclosure, protective relays, meters, and controls will be installed as required to protect the system. Refer to Figure 3.3-1b, Figure 3.3-1c, Figure 3.3-1d, and Table 3.3-3.

PG&E Thurman Switching Station

Site-grading activities at PG&E Thurman Switching Station will total approximately 5.50acres of disturbed area. The estimated cut and clean fill volumes for site grading are approximately 4,890 yd^3 and approximately 1,684 yd^3, respectively, resulting in the total net cut volume of approximately 3,206 yd^3 to be hauled offsite. The anticipated maximum cut and fill heights in the general grading area are approximately 1.1 feet and approximately 1 foot, respectively. The maximum cut height of the retention expansion is approximately 5.9 feet with the total cut volume of approximately 2,880 yd^3, which has been included already in the total cut volume mentioned previously.

The site generally is flat and will be graded with an approximate 1% slope for stormwater runoff to drain from the north to the south into the retention pond with riprap slope stabilization. No special slope stabilization or retaining wall is needed for the project.

Grading will be followed by: (1) installation of an approximately 10-foot-tall security fence with approximately 1 foot of "V" shaped barbed wire at the top, (2) excavation and installation of the subsurface ground grid and conduit chases, (3) installation of the paved interior roads, and (4) excavation and forming and pouring of concrete footings and foundations for all the aboveground structures. The additional excavated material of approximately 736 yd^3 for foundation installations will be hauled offsite.

After the concrete has cured, the aboveground steel structures, circuit breakers, switchgear, buses, dead-ends, and other electrical equipment, including associated control system hardware, will be installed. Equipment to be placed on slabs or footings will either be bolted or welded securely to meet the appropriate seismic requirements. All metallic structures within the switching station will be connected to the station grounding grid. A final dressing of aggregate totaling approximately 2,700 yd^3 will be spread on all unpaved areas in the switching station to provide an all-weather stable surface for O&M activities while limiting the amount of impervious surface created to minimize site runoff.

To the greatest extent possible, all cut materials from the switching station will be reused as fill following suitability testing. Representative samples of excess soil will be collected, analyzed, and profiled for disposal in accordance with all federal, state, and local regulations. Engineered fill material will be imported as needed to accomplish the necessary compaction and final grade. Refer to Figure 3.3-2b.

LEU Industrial and LEU Guild Substations

The LEU 12 kV feeder work is expected to start with LEU survey activities prior to the start of construction for LEU Guild Substation or modification for LEU Industrial Substation. The LEU 12 kV pull boxes and underground cable will be installed before the existing overhead LEU 12 kV feeder line portion will be removed.

When the LEU 12 kV feeder work is completed, site grubbing and grading will be completed for LEU Guild Substation, including removal of the existing wood poles onsite used for LEU utility worker training. Foundations, grounding, and conduits will be laid, then the monopole foundations at LEU Industrial Substation will be installed. Steel, bus, and enclosures will be placed at LEU Guild Substation, with the monopole steel being erected in parallel with LEU Industrial Substation. Installation of electrical equipment will follow, with wiring and testing likely done in parallel with the new PG&E Thurman Switching Station.

When PG&E Thurman Switching Station and LEU Guild Substation are complete, the overhead 230 kV lines connecting the substations will be installed. The LEU 60 kV overhead lines connecting LEU Guild Substation to LEU Industrial Substation will be installed on the new monopoles. The new LEU 60 kV overhead lines will be installed to the existing steel at LEU Industrial Substation. And PG&E will remove the existing 60 kV taps at LEU Industrial Substation as part of construction.

LEU Guild Substation will be constructed in one phase and will only require a bus outage at LEU Industrial Substation when complete to cut over to the new 230 kV source.

Access to LEU Guild Substation for construction and operation will be on a permanent access road installed from South Guild Avenue to the substation's yard. Access road construction will begin by excavating at the intersection with South Guild Avenue to cut the curb. The road will be graded and compacted in accordance with engineering standards and geotechnical requirements. Following compaction, road base will be imported, distributed onsite, and compacted. Finally, conventional equipment will be used to distribute the crushed-rock road material along the main access route and driveway. It is assumed that final rocking of the access road will occur after major construction at LEU Guild Substation is completed.

The LEU access road will be crushed rock and measure approximately 800 feet long and approximately 60 feet wide. The facility access road will have a gate at South Guild Avenue, a gate into the LEU Guild Substation yard, and a gate into the LEU Industrial Substation yard. All gates will be permanent. Interior roads within LEU Guild Substation will be crushed rock and measure approximately 1,250 feet long and approximately 16 feet wide in total. The layout of these roads is illustrated on Figure 3.3-2b.

Geotechnical borings were performed in the vicinity of LEU Guild Substation. It is anticipated that site materials can be excavated using conventional earth-moving equipment. While not expected, in the event there are areas where bulldozers and backhoes are not able to remove the material, scraping, ripping, drilling, hammering, and cutting may be used to break up the material into manageable pieces. Blasting is

not anticipated. Small, temporary stockpiles of excavated dirt may be located near excavations. This excavated material will be used, as appropriate, for backfilling voids left by the removal of old power line training poles. Sediment control best practices, such as the use of fiber rolls around stockpiles and excavated areas, will be implemented to manage the temporary stockpiles.

For LEU Guild Substation construction, LEU expects to mechanically process material onsite to achieve a maximum particle size and distribution suitable for conventional placement in engineered fills.

PG&E Remote-End Substations System Protection Modifications

Prior to placing the new transmission lines, modified power lines and substation, and new switching station components into service, PG&E must ensure that the components, as well as the overall system, have adequate protection from faults and other electrical abnormalities. At the new switching station, system protection equipment will be integrated into the final design and installed as part of the station construction. Also as part of the final design, the system protection equipment at PG&E Bellota, PG&E Brighton, PG&E Lockeford, PG&E Lodi, and PG&E Rio Oso substations and the grid control centers (GCCs) will be evaluated. The equipment (relays) may require adjustments to coordinate with the new equipment or may need to be upgraded or replaced.

Simple setting adjustments may be all that is necessary for protective devices of the same vintage and compatibility. Firmware upgrades may be needed if the devices are not of the same vintage and capability. Full device replacement is required if the vintage, capability, and compatibility cannot be matched with the new equipment at the switching station.

The work will occur within the control rooms of the existing facilities, and it is minor in nature. The replacement of protective relay devices is a typical operation and maintenance activity and would be performed prior to placing the new equipment into service. Depending on the scope, the duration could be approximately 1 day for setting adjustments to approximately 5 weeks for replacement of system protection devices. The trucks expected to be used for personnel and material transport are listed in Table 3.6-1.

At PG&E Rio Oso, PG&E Bellota, and PG&E Brighton substations, existing line tuner/wave trap equipment and associated structures will be removed or retired in place after new digital communication equipment for the 230 kV line protection relays are installed in the existing control facilities at the three substations.

Construction at the existing PG&E Bellota, PG&E Rio Oso, and PG&E Brighton substations will include minor modification to disconnect the existing line tuner/wave trap equipment and associated structures and remove them from service (Refer to Figure 3.3-4). The existing line tuner/wave trap equipment and associated structures can be removed from service after construction of the proposed 230 kV system is complete and the protection relays are upgraded or replaced. The equipment and structures may be retired in place when disconnected or removed as discussed.

The equipment will be electrically isolated from the in-service equipment so it can be safely retired in placed or disassembled and removed. If the out-of-service equipment is being removed, boom trucks and man lifts will be used during disassembly of the line tuner and wave trap equipment, cables, and supporting structures. The wiring to the equipment will be de-terminated and pulled back to a pull box or removed entirely. Control and protective devices will be removed or tagged as out of service.

A boom truck and crane will be used to load the equipment for transporting to a material yard for reuse or to a salvage yard for disposal. The foundations will be removed to approximately 3 feet below grade using a backhoe, jackhammer, and hand tools. Approximately eight truck trips are expected to off-haul concrete foundation material to an appropriate recycling/disposal facility. The equipment and vehicles expected to be used for personnel and material transport are listed in Table 3.6-1.

PG&E Clayton Hill Repeater Station – South Tower

Work to install two new antennas and run new cable on the existing structures and into the existing control room is expected to occur within approximately 30 days. Light-duty trucks would be used to transport the new communication material to the station. No ground-disturbing work would occur within the station.

3.5.7.2 Civil Works

Civil works expected at LEU Industrial and LEU Guild substations are described in Sections 3.3.3.4 and 3.3.4.3. PG&E civil works are described in the following sections in expected chronological order of civil work type for PG&E Lockeford Substation and PG&E Thurman Switching Station.

PG&E Lockeford Substation and PG&E Thurman Switching Station Preconstruction

Preparation of the two main PG&E station staging areas will take approximately 2 weeks to complete and will include the following actions and improvements:

- Locate access to PG&E Lockeford Substation off East Kettleman Lane.
- Locate access to PG&E Thurman Switching Station off East Thurman Road.
- Begin site leveling and grading within PG&E-owned areas.
- Install temporary in-ground fencing (if not already present), including an approximately 6- to 8-foot-tall chain-link fence with up to approximately 2 feet of barbed wire, around the perimeter of each staging area with locking gates to control access and theft.
- Install SWPPP mitigation measures.
- Place gravel or equivalent material within staging areas to control dust, sedimentation, and equipment trackout and to prevent stormwater runoff from leaving the site during rain events.
- Install temporary power from portable generators and/or taps to existing distribution lines in the area.
- Install construction office trailers, sanitary facilities, and storage buildings.

PG&E Lockeford Substation and PG&E Thurman Switching Station Grading

Substation grading and site preparation construction of the substation and switching station will follow a typical sequence beginning with survey marking staging areas and work areas, establishing the private access road, clearing vegetation, and installing the fencing. Earth-moving activities associated with the proposed substations would require limited remedial grading (removal of colluvium and alluvium) and mass grading to create the substation pad and improve the existing access road. Construction activities would include installing the retaining walls, stormwater conveyances, a containment basin, a water quality detention basin, electrical underground conduits, a perimeter screen wall, and entry gates; and paving internal and external operational and maintenance access roads. Final grading plans are pending final engineering; therefore, truck import and hauling has been assumed based on schedule duration. Site construction fencing will be installed during the site preparation stage and will require digging to a depth of approximately 4 feet to install fencing anchors. A water quality detention basin may be needed within the substation fence. The water quality basin would be designed to meet volume, area, depth, and detention time objectives of the Regional Water Quality Control Board and City or County requirements. Geotechnical soils investigation will be completed as needed, and location of the basin will be determined during the final engineering. Soil removal and reuse for compaction subject to final engineering design and importing gravel for compaction and crushed rock for finish grade will follow PG&E standards.

PG&E Lockeford Substation and PG&E Thurman Switching Station Below Grade

Following site development, below-grade work would begin. Below-grade work would include structure and equipment foundations, underground ducts, ground grid, and construction of the all-weather structure (control shelter). Concrete trucks, backhoes, and loaders would be used for foundation and below-grade work.

Forms, reinforcing steel, and concrete then will be installed, as appropriate, to build the foundations for substation equipment and the control enclosures. Structure and equipment foundations will be excavated to a depth of between approximately 10 and 25 feet. Actual depths will depend on the equipment to be installed. Concrete pouring will be required to construct the foundations. Underground bundled PVC conduit ducts will be constructed within the substation pad for the control circuits.

Final civil/structural foundation plans are pending final engineering; therefore, truck import and hauling has been assumed based on schedule duration.

PG&E Lockeford Substation and PG&E Thurman Switching Station Above Grade

When grading activities and below-grade foundation construction are complete, major equipment and structures would be installed and anchored on their respective foundations. The following steps would be associated with installing above-grade equipment:

- It is anticipated that all major electrical and substation equipment will be delivered to each substation site and placed directly on constructed concrete foundations and footings. When all footings have cured, all equipment will be anchored into final position, and wiring, controls, and protective devices will be installed. All new components will be delivered to the site using a flatbed truck and positioned using a small crane. Equipment testing will be performed for all installations.
- A controls enclosure will be installed onsite. This enclosure will house new SCADA equipment for the entire PG&E Lockeford Substation.
- A series of multiple outages will be needed to remove old control and communication cables and reroute new cables and wires to the new enclosure. Testing and commissioning of all equipment is to be done by internal PG&E crews.

3.5.8 Public Safety and Traffic Control

3.5.8.1 Public Safety

No special construction techniques are expected for the project.

Any personnel with access to energized electrical stations will be properly trained according to PG&E or LEU standard practices, respectively. Other potential construction hazards include the presence of high-voltage, open-air conductors, which can create a high-temperature electrical arc between the electrical conductor and persons or objects. PG&E's and LEU's power lines and station facilities are designed and constructed with grounding devices, and in the event of a lightning strike on a power line, this safety feature ensures that the strike is discharged to appropriate ground, and all workers will be trained in appropriate safety procedures, as described in APM HAZ-3.

To minimize potential exposure of the public to electric shock hazards, a 9-foot-tall chain-link fence topped with 1-foot of barbed wire would extend around the perimeter of the proposed PG&E Thurman Switching Station, LEU Guild Substation, and the expanded PG&E Lockeford Substation, thereby restricting site access. The pedestrian and vehicle entrance into the stations will be gated and monitored remotely; thus, access would be restricted to only authorized personnel. Warning signs would be posted around the perimeter of the stations' fence and gate to alert PG&E of potential electrical hazards. No change to the

existing perimeter fence type is expected to occur at PG&E Bellota, PG&E Brighton, PG&E Lodi, PG&E Rio Oso, or LEU Industrial substations, or PG&E Clayton Hill Repeater Station.

All work will be completed on private land or where PG&E or LEU has permanent or temporary land rights or easement and where access is limited to qualified individuals. Signage and temporary and permanent fencing will be used to inform and protect the public near the construction site. Flaggers will be used as standard safety practices for large equipment deliveries and offloads, including safe movement of traffic on highways and streets in accordance with Section 21400 of the California Vehicle Code.

Prior to stringing conductors, temporary guard structures will be installed at irrigation canals, road crossings, and other locations where the new conductors may otherwise come into contact with electrical, communication, or rail facilities, waterways, or vehicular traffic during installation. Refer to Section 3.5.5.4 for details on guard structures.

Specific project areas where public access may be restricted for safety purposes are expected to include some public roads and some sidewalks. Public road access may be temporarily disrupted as described in Section 3.5.8.2. Sidewalk access may be temporarily restricted for safety purposes for up to 5 days along the north side of East Lodi Avenue between South Cluff Avenue and Commerce Street during the reconfiguration of PG&E's 60 kV lines north of LEU Industrial Substation, including the removal of two horizontal guy wires and the PG&E stub pole near 1303 East Lodi Avenue.

South Guild Avenue would have temporary disruption of access during wire-stringing operations, which would be temporary and would be addressed by traffic control and rerouting. Specifically, the following disruptions would be expected:

- Sidewalks – temporary disruption of access during 12kV underground activities potentially lasting up to 2 months and addressed by traffic control flaggers and rerouting
- Delta Packing Company – temporary disruption of access during wire-stringing operations lasting less than 5 business days and addressed by traffic control and rerouting

3.5.8.2 Traffic Control

PG&E and LEU will follow their respective standard safety practices, including installing appropriate barriers between work zones and transportation facilities, posting adequate signs, and using proper construction techniques. PG&E and LEU will coordinate construction traffic access at and around LEU Industrial and LEU Guild substations, PG&E Thurman Switching Station, and the connecting 12 kV, 60 kV, and 230 kV lines. PG&E is a member of the California Joint Utility Traffic Control Committee, which published the *California Temporary Traffic Control Handbook* (2018). PG&E will follow the recommendations in this manual regarding basic standards for the safe movement of traffic on highways and streets in accordance with Section 21400 of the California Vehicle Code. PG&E will comply with all notification requirements as prescribed by the City of Lodi, San Joaquin County, and Caltrans encroachment permits. LEU will comply with all notification requirements as prescribed by the City of Lodi.

With the City of Lodi, several project activities are planned for the area near and within South Guild Avenue between East Thurman Road and East Lodi Avenue. Temporary parking restrictions and sidewalk closures may be required intermittently on one side of the road during activities. PG&E Thurman Switching Station and LEU Guild Substation will be constructed to the west of South Guild Avenue. Both stations will install vehicle access from South Guild Avenue west into the stations requiring cutting the curb and sidewalk to create driveways. This civil work for PG&E Thurman Switching Station is scheduled to complete before any LEU Guild Substation work begins. Each station access construction work may require that the sidewalk be temporary closed for less than 1 month. Pedestrian traffic will be routed to the existing sidewalk on the east side of South Guild Avenue.

About 2 months after PG&E completes Thurman Switching Station access from South Guild Avenue, LEU has scheduled the LEU12 kV feeder line relocation as its first project activity. The eastern end of the LEU HDD activities will occur entirely on the LEU customer property and LEU will coordinate the timing of that

work with the customer. The western end of the LEU HDD work will occur at an existing LEU pole along the eastern sidewalk of South Guild Avenue. The sidewalk may be temporarily closed for less than 1 month. Pedestrian traffic will be routed to the existing sidewalk on the west side of South Guild Avenue. When the relocated LEU 12 kV feeder line is in service, the existing aboveground LEU 12 kV lines can be removed from the underbuild location on PG&E Lockeford-Industrial Line. There is approximately 7 months until the PG&E Lockeford-Industrial Line pole 1 through pole 9 are scheduled to be removed; therefore, the LEU 12 kV line segments and Comcast communication lines removal is flexible. This will allow schedule flexibility for LEU's construction of LEU Guild Substation access to start and complete as needed to avoid potential pedestrian, bicycle, or traffic constraints with both activities occurring in the same area. Similarly, the month after LEU Guild Substation access is complete, PG&E has scheduled the underground construction of its 12 kV line within South Guild Avenue. The flexibility of removing the aboveground lines will allow for the PG&E 12 kV line work to complete as well.

Extension of the PG&E 12 kV line within South Guild Avenue will require lane closure for the two HDD work areas. Given the width of the road, PG&E anticipates that a temporary parking restriction in the vicinity of the work area will allow for one lane of traffic in each direction to be open at all times. When the 12 kV line route location is finalized, PG&E will apply for an encroachment permit from the City of Lodi and a Traffic Control Plan will provide detail on the temporary work locations and temporary road use restrictions. On Figure 3.5-1, the work area across the width of the road identifies the range of potential area needed depending on the route option selected. The work area for each HDD end would not extend curb to curb and a lane of travel in each direction is expected to be open at all times. The work area for trenching across South Guild Avenue would move across the road incrementally with plates or backfill placed allowing unrestricted travel in both directions as the trench progresses and line installation occurs.

Before PG&E 60 kV conductor, LEU 12 kV conductor, and Comcast communication line removal begins, the temporary parking restrictions and brief, temporary sidewalk rerouting within the section of line removal are expected with appropriate approval from the City of Lodi. Work near and across railroads will be coordinated with UPRR and CCT Company. PG&E's construction schedule is expected to be able to coordinate effectively to avoid rail use disruption. Span-by-span removal may be scheduled as needed. Installation of the western length of the new PG&E 230 kV line will be the final main activity near and across South Guild Avenue. With appropriate approval from the City of Lodi and UPRR, the conductor will be installed. No sidewalk, parking, or lane restrictions are anticipated beyond temporary public safety and traffic control associated with the 230 kV conductor stringing across South Guild Avenue. Project activities associated with PG&E 60 kV line reconfiguration across East Lodi Avenue and across East Pine Street will use traffic control to briefly stop traffic for less than approximately 5 minutes when existing overhead wire spanning the road are being removed. Pedestrian use will be rerouted temporarily to Beckman Avenue when the steel guy pole adjacent to the sidewalk near 1303 East Lodi Avenue is being removed.

Prior to construction, all traffic control and encroachment permits will be obtained, and traffic control will be implemented. For highway or high-traffic county roadway crossings, it may be necessary to control traffic during critical conductor stringing activities. Any road closures that must occur on private, city, or county roads are not expected to exceed approximately 5 minutes in duration. For the SR 12 and SR 88 crossings, CHP and Caltrans will be contacted to organize 5-minute rolling stops. Any necessary permits will be obtained from the affected agencies. No complete long-term road closures are expected, although one-way traffic controls and short-term road closures will be implemented to allow for certain construction activities and to maintain public safety as described in Section 5.17, Transportation.

The appropriate traffic control configuration will be set up and in place ahead of construction activities, and may include traffic control cones, candles, electronic signage boards, and temporary fixed roadway warning signs for construction personnel prior to reaching the work area in both directions and at egress/ingress to work areas, as well as appropriate barricades if a total road closure should be required. No complete long-term road closures are expected, although one-way traffic controls and short-term road closures will be implemented to allow for certain construction activities and to maintain public safety. PG&E will apply for a Special Traffic Permit from the City of Lodi. PG&E and LEU also will coordinate provisions for emergency vehicle and local access with the City, County, or other responsible entity.

3.5.8.3 Security

During the construction process, temporary and permanent fencing will be used to outline the station construction areas and staging areas. An approximately 6- to 8-foot-tall chain-link fence with up to an additional approximately 2 feet of barbed wire will be installed. Temporary lighting will be used throughout the construction length. All materials will be locked at night or when construction crews are not on the property. The project will use 24-hour surveillance by either security personnel or remote security during construction.

3.5.8.4 Livestock

Livestock fencing or guards are not anticipated to be necessary to prevent livestock from entering project areas. Project work areas or staging areas are not known to be located in areas occupied by livestock. During temporary construction easement discussions outside of the City of Lodi where land use may include livestock, PG&E would work with the landowner to discuss any livestock fencing requirements.

3.5.9 Dust, Erosion, and Runoff Controls

Construction ground-disturbing activities, including grading and vegetation clearing, have the potential to contribute to construction-related dust, erosion, and runoff. The project will obtain coverage under the State Water Resources Control Board (SWRCB) General Permit for Storm Water Discharges Associated with Construction Activity, Order No. 2009-0009-DWQ. Permit coverage will include developing and complying with a project SWPPP, prepared by each utility for its portion of the project. In conjunction with the SWPPPs, appropriate best practices will be developed for each activity that has the potential to degrade surrounding water quality through erosion, sediment runoff, and other pollutants. These best practices then will be implemented and monitored throughout construction of the project by a Qualified SWPPP Practitioner, likely for each utility.

3.5.9.1 Dust

During all phases of construction, appropriate measures will be taken to minimize the generation of fugitive dust. Water or other suitable dust suppressants will be applied to project access roads and work areas; stockpiled materials will be covered or otherwise stabilized as needed to control fugitive dust. Stockpiled soils will be compacted and sprayed daily with water to prevent dust. Water will be sprayed on an as-needed basis when noticeable dust particles are on unpaved roadways or substations yards. Use of an agriculturally compatible chemical dust suppressant will be encouraged to decrease the quantity of potable water needed for dust control.

3.5.9.2 Erosion and Runoff

A small, temporary stockpile of excavated soil may be located near a pole excavation to be used for backfill. Stockpiles will be located away or downgradient from waterways. Sediment and erosion control measures will be implemented to control erosion and minimize offsite sediment discharge.

Best practices will be used to control dust and minimize erosion potential. Best practices can include sediment controls, such as gravel bags, silt fences, and/or straw wattles. Stabilized construction access entrances will be established where necessary to minimize trackout of sediment onto paved roads in compliance with the project SWPPPs. Refer to Section 5.10, Hydrology and Water Quality.

The expanded PG&E Lockeford Substation, new PG&E Thurman Switching Station, modified LEU Industrial Substation, and new LEU Guild Substation are designed to maintain the existing drainage patterns and will include erosion control design measures for site stabilization. Drainage and erosion control design measures include erosion control blankets and riprap. Both the PG&E SWPPP and the LEU SWPPP will include measures to limit erosion and offsite transport of pollutants from construction activities. Each SWPPP will identify the measures that will be followed during construction to help stabilize disturbed

areas and reduce erosion, sedimentation, and pollutant transport. No dewatering is anticipated during construction.

The existing grade at the four station sites will maintain the existing drainage patterns during operation and include erosion control design measures for specific station site stabilization. This includes rocking and catch basins that either do not require modification to contain the site runoff (LEU Industrial Substation), will be modified to contain additional site runoff (PG&E Lockeford Substation), or are designed for the new stations (PG&E Thurman Switching Station and LEU Guild Substation).

3.5.10 Water Use and Dewatering

3.5.10.1 Water Use

Water trucks, typically with a capacity of up to approximately 3,000 gallons, will support project construction activities and dust suppression. As many as approximately three or four water trucks with an approximate 3,000-gallon capacity may be used daily for dust suppression during the peak periods of construction when ground disturbance may be occurring at 230 kV structure locations and PG&E and LEU stations. However, the total volume available within the trucks onsite is not expected to be used daily.

Water use will vary with type of activities (increased use when activity is ground disturbing) and other daily site conditions such as wind speed. Up to approximately 8,000 to 12,000 gallons of water may be needed daily for dust suppression during peak periods of construction. For example, LEU estimates that its LEU Guild Substation will require approximately 40,000 gallons of water (approximately 3 acre-feet). However, daily water use during the LEU construction period will vary based on the construction phase, but it is estimated that the average water use per day will be approximately 200 gallons over the course of the estimated total of approximately 7 months of construction with ground-disturbing activities.

Water required for construction may come from several sources, including a municipal water source, delivery by water supply vendor trucks, or Lodi Lake located on the north side of Lodi. Depending on availability and distance to active construction, supplemental project water needs may be met by using recycled water available through the City's newly upgraded wastewater treatment plant, as described in Section 5.19, Utilities and Service Systems. All the water sources described have adequate capacity to serve the project either independently or in combination.

3.5.10.2 Dewatering

Dewatering is not expected to be required. Groundwater encountered will be sampled and characterized prior to removal and discharge as described in Section 5.10, Hydrology and Water Quality; as appropriate, the water may be pumped into a containment vessel (for example, a Baker tank) and tested for parameters such as turbidity and pH or as otherwise required. As permitted, groundwater may be discharged to an upland location, or used for dust control. Otherwise, groundwater will be discharged to the appropriate City of Lodi or San Joaquin County stormwater or combined stormwater/sewer system, if approved, or trucked to an appropriate treatment and/or disposal facility (refer to Section 3.5.12.1).

3.5.11 Hazardous Materials and Management

3.5.11.1 Hazardous Materials

The project is not expected to use or store large quantities of hazardous materials, but fuel, grease, and fluids needed for equipment operation will be onsite periodically and handled in keeping with the project SWPPPs and APMs/BMPs that address the proper use, storage, and cleanup (if warranted). All hazardous materials will be used and stored as instructed by Safety Data Sheets (SDSs) that will be provided to onsite personnel in case of emergency. Hazardous waste will be transported per applicable regulations to an appropriate facility for disposal, as described in Section 5.9, Hazards and Hazardous Materials. Refer to Table 3.5-7 for estimated types, uses, and volumes of hazardous materials expected to be used by the

project equipment and vehicles during construction and operations and maintenance activities. Additionally, up to approximately 17,000 gallons of utility-grade, low-volatility mineral oil will be required for each of the two LEU Guild Substation transformers to operate.

Table 3.5-7. Types, Uses, and Approximate Volumes of Hazardous Materials

Utility	Hazardous Material	Use	Approximate Volume (gallons)
PG&E	Diesel	Engine fuel	280,915
LEU	Diesel	Engine fuel	98,640
PG&E	Gasoline	Engine fuel	22,051
LEU	Gasoline	Engine fuel	3,164
PG&E	Jet fuel	Helicopter Fuel	11,101
PG&E	Hydraulic Fluids/Lubricants	Engine and equipment lubrication and powering of hydraulic equipment	15,703
LEU	Hydraulic Fluids/Lubricants	Engine and equipment lubrication and powering of hydraulic equipment	5,090
PG&E	Other Construction Fluids (solvents)	Cleaning, lubricating hardware, etc.	785
LEU	Other Construction Fluids (solvents)	Cleaning, lubricating hardware, etc.	255

Notes:
Diesel and gasoline fuel volumes are from Appendix B1a and Appendix B1b.

Hydraulic fluids and lubricants volumes are anticipated to be 5% of total fuel volumes.

Other construction fluids volumes are anticipated to be 5% of hydraulic fluids and lubricants volumes.

3.5.11.2 Hazardous Materials Management

Based on the anticipated volume of dielectric/mineral oil in excess of 1,320 gallons to be used at LEU's Guild Substation, a Spill Prevention, Control, and Countermeasure (SPCC) Plan will be required in accordance with *Code of Federal Regulations* (CFR) Title 40, Parts 112.1 to 112.7, and it will address the project spill prevention and containment design measures and practices. LEU Guild Substation will be constructed with secondary containment design in accordance with SPCC requirements for oil containment in the event of a spill. A concrete secondary containment basin will provide mineral oil containment for the transformer and will be designed to allow sufficient freeboard to include the oil volume of the transformer plus the precipitation from a 25-year, 24-hour storm event. The secondary oil containment will be integrated in the proposed percolation-type retention basin. An oil/water separator structure will be used to separate spilled oil from the stormwater before the stormwater drains into the retention basin. The oil/water separator will be visually inspected periodically for any contamination. The oil would form a separate layer that then can be removed by skimmers, pumps, or another similar method. The effluent oil from the oil/water separator would be discharged to the sanitary sewer system.

During construction, petroleum-based products such as gasoline, diesel fuel, crankcase oil, lubricants, and cleaning solvents will be used to fuel, lubricate, and clean vehicles and equipment, and will be transported in specialty trucks or in other approved containers. When not in use, hazardous materials will be properly stored to prevent drainage or accidents.

Additionally, appropriate best practices will be implemented to minimize the effects of an accidental spill such as the presence of spill kits in active work areas to prevent materials from draining onto the ground or into drainage areas. Proper procedures describing hazardous material use, transport, storage, management, and disposal protocols will be identified and implemented in a Hazardous Materials and Waste Management Plan prior to the commencement of construction activities. An SPCC Plan will be required for LEU Guild Substation in accordance with federal regulations and will address the project spill prevention and containment design measures and practices.

3.5.12 Waste Generation and Management

3.5.12.1 Solid Waste

Construction debris will be picked up regularly from construction areas and stored in approved onsite containers; the debris will be hauled away for recycling or disposal periodically during construction. At construction staging areas, crews will gather and sort recyclable and salvageable materials into bins. When possible, various waste materials generated during construction will be recycled and salvaged. Salvageable items (such as useable conductor, steel, and hardware) will be taken to recycling facilities or sold through available markets. Some examples of items that may be recycled include damaged steel from pole assemblies, conductor segments, conductor reels, pallets, and broken hardware. The project also will generate minimal solid waste from the food, glass, paper, plastic, and packing materials consumed by the up to approximately 40 construction workers who will be onsite at peak construction periods. This general solid waste is estimated to be approximately 38 tons for PG&E's portion of the project and approximately 11 tons for LEU's portion of the project. Construction generated waste materials that cannot be reused or recycled (materials such as wood, soil, vegetation, and sanitation waste) will be taken to waste management facilities for disposal or potential composting of green waste; refer to Section 5.19, Utilities and Service Systems.

PG&E or LEU will use appropriately permitted receiving facilities, coordinate onsite management, and facilitate offsite disposal for solid waste generated by their respective portions of the project. Crews will conduct a final survey to document that cleanup activities have been successfully completed as required.

PG&E estimates that vegetation including trees removed for site preparation will generate approximately 3,550 yd^3 of agricultural and green waste. Vegetation is expected to be taken to a suitable facility such as North County Recycling Center and Sanitary Landfill (17720 East Harney Lane, Lodi, CA 95240), Foothill Sanitary Landfill (6484 North Waverly Road, Linden, CA 95236), or Lovelace Materials Recovery Facility and Transfer Station (2323 East Lovelace Road, Manteca, CA 95336).

Treated wood waste has the potential to be classified as hazardous waste if it contains elevated levels of arsenic, chromium, copper, pentachlorophenol, or creosote. Treated wood waste often can be identified visually by tags or markings on the wood, when cut staining is visible around the perimeter only, or by discoloration or odor. If encountered, such as with the removed or topped PG&E 60 kV poles, the treated wood waste will be managed in accordance with applicable California and federal regulations. PG&E will dispose of utility generated waste, including treated wood waste, under the Hazardous Waste Fee Health and Safety Code (CA HSC Chapter 6.5, Section 25143 et seq.). Under this exemption, the wood waste would be disposed of in a composite lined portion of a municipal solid waste landfill that meets requirements imposed by the state policy adopted pursuant to Section 13140 of the Water Code and regulations adopted pursuant to Sections 13172 and 13173 of the Water Code. Further, the solid waste landfill used for disposal is authorized to accept the wood waste under waste discharge requirements issued by the RWQCB pursuant to Division 7 (commencing with Section 13000) of the Water Code. PG&E expects treated wood waste will be taken to Forward Landfill (9999 South Austin Road, Manteca, CA 95336), Chemical Waste Management - Kettleman Hills (35251 Old Skyline Road, Kettleman City, CA 93239), or Buttonwillow Landfill (2500 West Lokern Road, Buttonwillow, CA 93206). Approximately 10 yd^3 of PG&E wood poles or pole tops are estimated to be removed and managed as treated wood waste.

Wood guard poles will either be reused or recycled. If a pole's condition does not allow reuse, the pole will be recycled or disposed of in an appropriate manner by PG&E. LEU's existing wood training poles on the LEU Guild Substation site are not treated wood and will not be managed as hazardous waste. Approximately 8 yd^3 of LEU wood training poles are estimated to be removed, and all are expected to be reused or recycled.

Construction debris including recyclables (metal poles, pole framing, fencing, and pavement), untreated wood, and clean soil will be taken to a licensed recycle facility such as North County Recycling Center and Sanitary Landfill, Foothill Sanitary Landfill, or Lovelace Materials Recovery Facility and Transfer Station.

LEU estimates that approximately 1,000 feet of 12 kV electrical conductor, and four sets of metal framing will be removed from the underbuild position on PG&E Lockeford-Industrial 60 kV. Approximately 1 yd^3 of pavement will be cut and removed by LEU for the HDD excavations for its feeder line relocation. The solid waste generated for disposal or recycling by LEU's relocation of its existing 12 kV feeder line is expected be approximately 1.5 yd^3. Approximately 8 yd^3 of pavement will be cut and removed by PG&E for the HDD excavations for its secondary service line extension. PG&E estimates that approximately 1 yd^3 of 60 kV conductor and guy wire will be recycled or reused by PG&E after being removed as part of the PG&E 60 kV reconfiguration. The metal framing removed from PG&E's 60 kV poles is expected to have 10% recycled (approximately 0.05 yd^3) and 90% (approximately 0.50 yd^3) disposed as construction waste. If PG&E removes the line tuners and wave trap equipment from PG&E Bellota, PG&E Brighton, and PG&E Rio Oso substations, approximately 34% (approximately 1.1 yd^3) is expected to be recycled or reused by PG&E and 66% (approximately 2.2 yd^3) disposed as construction waste.

Spoils that are not useable and/or are identified as contaminated through appearance will be tested to characterize before appropriate transportation to a licensed landfill facility. Grading is described in Section 3.5.4.6. PG&E estimates that all approximately 873 yd^3 of cut soil at PG&E Lockeford Substation will be reused onsite and none will be hauled offsite. Clean fill will be required for PG&E Thurman Switching Station and the cut volume of approximately 3,206 yd^3 hauled for disposal. LEU estimates approximately 28% will be reused onsite and approximately 2,550 yd^3 will be hauled for disposal. The approximately 400 feet of fence material (approximately 1.4 yd^3) removed from LEU Industrial Substation eastern perimeter fence will be recycled. The approximately 3,150 feet of fence material (approximately 11 yd^3) removed from PG&E Lockeford Substation perimeter fence will be recycled.

3.5.12.2 Liquid Waste

The dust control methods outlined previously will result in minor amounts of water waste that will follow existing drainage patterns. Hazardous liquid waste will be disposed of using the methods listed previously. Portable restroom facilities will generate minor amounts of liquid waste that will remain contained to the facilities until their removal during regular cleanings. It is anticipated that the majority of the drilling mud will be recycled by the drilling contractors and used on subsequent projects. Any excess clean drilling mud will be disposed of at an appropriate waste facility.

3.5.12.3 Hazardous Waste

There are no large volumes of known hazardous waste generated by or resulting from project construction. Minor volumes of hazardous waste will be disposed of using the methods described previously.

An asbestos survey will occur before the removal of the existing PG&E RO1 tower as part of the San Joaquin Valley Air Pollution Control District demolition notification. Known or assumed asbestos material will be tested and disposed as required by local regulations. Material from the tower (approximately 13 yd^3) is expected to be disposed as hazardous waste at Kettleman Hills Landfill or Buttonwillow Landfill.

If precharacterization has not occurred, the soil will be stockpiled separately onsite to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities (using indicators such as sheen, odor, and/or soil discoloration), work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment. Appropriate personal protective equipment will be used, and waste management will be performed in accordance with applicable regulations. If excavation of hazardous materials is required, the materials will be disposed of in accordance with applicable regulations.

3.5.13 Fire Prevention and Response

Fire prevention and response procedures during construction are expected to follow standard utility practices and no fire breaks are expected.

3.5.13.1 Fire Prevention and Response Procedures

PG&E and LEU will follow their respective construction fire prevention and response procedures during construction. Procedures are updated per regulation and best practice innovations. The procedures include fire prevention and suppression methods training and briefing for construction workers. A daily tailgate topic on fire prevention and response specific to the work area also will be presented. Procedures for minimizing potential ignition, including vegetation clearing, parking requirements/restrictions, idling restrictions, smoking restrictions, proper use of gas-powered equipment, use of spark arrestors, and hot work restrictions are included in worker training. Each utility has work restrictions during Red Flag Warnings and High to Extreme Fire Danger days as detailed in their respective wildfire mitigation plans (Refer to Section 5.20 Wildfire). During days with increased wildfire risk potential, procedures may include storage of fire suppression tools and backpack pumps with water within approximately 30 feet of work activities or larger water sources, including water storage tanks or water trucks that would be used in case of a fire. Additional procedures may include assigning personnel to conduct a “fire watch” or “fire patrol” to ensure that risk mitigation and fire preparedness measures are implemented, to report a fire immediately, and to coordinate with emergency response personnel in the event of a fire.

3.5.13.2 Fire Breaks

No fire breaks are expected to be needed. The PG&E and LEU project components within the main portion of the project, and at the four PG&E remote-end substations (Brighton, Bellota, Lodi, and Rio Oso), are not located in or near state responsibility areas (SRAs) and are not located on land classified as very high fire hazard severity zones (FHSZs). PG&E Clayton Hill Repeater Station is located within a high FHSZ and an SRA. PG&E project-related work will not be ground-disturbing within the paved and fenced facility and access to the repeater station along a paved road.

3.6 Construction Workforce, Equipment, Traffic, and Schedule

3.6.1 Construction Workforce

Overall, peak workforce is estimated to be up to approximately 66 workers per day during the peak months of construction (2027 Quarter 2), with work activities potentially occurring at PG&E Lockeford Substation, PG&E new 230 kV line structure locations, PG&E Thurman Switching Station, PG&E 12 kV service line extension, PG&E Clayton Hill Repeater Station, LEU Industrial Substation, and LEU Guild Substation. On a typical workday during 2027, as many as approximately 6 to 8 crews will be performing project activities. A typical daily workforce during the peak period of construction is expected to consist of approximately 3 to 18 workers per project activities. Approximately 22% of the workforce during the peak period is expected to be supporting LEU’s portion of the project and approximately 78% is expected to be supporting PG&E’s portion of the project. During PG&E transmission line work, crews typically will be working at adjacent or nearby poles. During PG&E transmission conductor stringing activities, approximately 18 construction crew members may be in the field, working at approximately two pull-and-tension sites, usually approximately 3.5 miles apart. On a typical peak workday with civil work complete, 4 to 10 construction crew members will be working at a station. Work at PG&E remote-end stations will have approximately two workers and, conservatively, the workers are included in the peak months total. Typically, approximately one or two truck drivers and approximately 3 to 4 inspectors and monitors are estimated as a daily average across all project components. Different phases of the construction process will require varying numbers of construction personnel.

The estimated equipment, duration of work, and personnel requirements by construction activity are presented in Table 3.6-1 and detailed in Appendix B1a and Appendix B1b. During structure installation, several crews may be working on various segments of line, and at the switching station and substations. Crews will be dispatched to PG&E 230 kV structure locations as ROWs are obtained. In keeping with landowner agreements, construction scheduling will be developed to minimize conflicts with planting, fertilizing, irrigating, and harvesting activities. Scheduling also may be affected by constraints related to bird nesting, agricultural operations, line clearances, weather, and other factors.

The approximate number of crew members for each activity (grading, equipment installation, and others) and number and types of equipment expected to be used for the activity are detailed in Table 3.6-1 with activity subheadings under each project component. In general, surveying (construction staking) is conducted typically by a crew of approximately 3 to 4 who use light trucks and survey equipment to locate and mark utilities and work area limits. Clearing, grading, access, and site preparation can be a crew of approximately 6 to 20 depending on the area and associated activities required (from potentially minimal blading and vegetation trimming to level a work area and avoid damaging landscaping trees along access roads to station grading followed by permanent paving and fence installation). With work areas and access established, crews of approximately 10 to 14 workers typically are using excavators and drill rigs to create a space to construct forms to pour concrete for foundations. After foundations are set, equipment installation usually involves a crew of approximately 6 to 10 per structure using cranes and forklifts. With equipment installed, crews then begin to install wires, which can require crews of approximately 4 to 10 on average per location. A helicopter will be used to pull a sock line at the start of conductor-stringing activity; otherwise, all work is ground based and typically involves cranes and forklifts. Work at PG&E's Clayton Hill Repeater Station will have two workers and will use a truck with a boom. When the PG&E 60 kV lines are reconfigured, a crew of approximately 9 is expected to remove, replace, or top the poles and lines mainly using line trucks with booms and drill rigs for new pole holes. Restoration and cleaning are conducted typically by a smaller crew of approximately 3 to 4 who uses trucks and potentially a blade to level or recontour surfaces. If the communication equipment is removed from PG&E remote-end substations instead of retired in place, a crew of approximately 6 workers would use cranes or manlifts and potentially a jack hammer or backhoe to remove the equipment and the top part of foundations. Otherwise system protection work at remote-end substations typically occurs in the control room and the two workers do not need construction equipment.

3.6.2 Construction Equipment

Table 3.6-1 lists the anticipated equipment and personnel to be used by construction activity. Not all equipment and personnel listed in Table 3.6-1 may be used during all portions of the activity. This is a preliminary equipment list, and other equipment may be identified when project design is finalized, or during construction if unexpected conditions require additional equipment.

Table 3.6-1. Anticipated Construction Equipment and Workforce

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
PG&E 230 kV Transmission Line									
General Construction									
Street Sweeper	NA	Diesel	1	1	Jul 2026	Dec 2027	NA	50	300
Jet A Fuel Truck	NA	Diesel	1	1	Mar 2027	Apr 2027	NA	50	50
Mobilization: Thurman and Lockeford yards				8					

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
10-Cu Dump Truck	NA	Diesel	2		Jul 2026	Jul 2026	NA	60	10
Water Truck	NA	Diesel	2		Jul 2026	Jul 2026	NA	60	10
Backhoe/Front Loader	97	Diesel	2		Jul 2026	Jul 2026	8	NA	10
Road Grader	187	Diesel	1		Jul 2026	Jul 2026	8	NA	10
Drum Type Compactor	8	Diesel	1		Jul 2026	Jul 2026	8	NA	10
10k lbs Forklift	89	Diesel	2		Jul 2026	Jul 2027	5	NA	150
30 Ton Crane	231	Diesel	2		Jul 2026	Jul 2027	5	NA	150
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Jul 2026	Jul 2026	NA	15	10
1-Ton Crew Cab Flatbed, 4 × 4	NA	Diesel	1		Jul 2026	Jul 2027	NA	15	300
Lowboy Truck/Trailer	NA	Diesel	1		Jul 2026	Jul 2026	NA	2	10
Worker Commutes	NA	Gas	8		Jul 2026	Jul 2027	NA	25	300
Survey (Construction Staking)				6					
Light-duty Truck	NA	Gas	2		Aug 2026	Aug 2026	NA	25	24
Worker Commutes	NA	Gas	6		Aug 2026	Aug 2026	NA	25	24
Soil Borings				3					
Light-duty Truck	300	Gas	1		Aug 2026	Aug 2026	NA	25	24
Construction Equipment	50	Diesel	1		Aug 2026	Aug 2026	8	NA	24
Worker Commutes	NA	Gas	3		Aug 2026	Aug 2026	NA	25	24
ROW Clearing				6					
10-Cu Dump Truck	NA	Diesel	1		Sep 2026	Sep 2026	NA	45	15
Backhoe/Front Loader	97	Diesel	1		Sep 2026	Sep 2026	8	NA	15
Road Grader	187	Diesel	1		Sep 2026	Sep 2026	5	NA	15
Boom Truck	231	Diesel	1		Sep 2026	Sep 2026	5	NA	15
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Sep 2026	Sep 2026	NA	30	15
Lowboy Truck/Trailer	NA	Diesel	1		Sep 2026	Sep 2026	NA	30	15
Worker Commutes	NA	Gas	6		Sep 2026	Sep 2026	NA	25	15
Roads and Access				6					
10-Cu Dump Truck	NA	Diesel	1		Sep 2026	Sep 2026	NA	45	15
Water Truck	NA	Diesel	1		Sep 2026	Sep 2026	NA	60	300
Backhoe/Front Loader	97	Diesel	1		Sep 2026	Sep 2026	8	NA	15
Road Grader	187	Diesel	1		Sep 2026	Sep 2026	5	NA	15
Drum Type Compactor	8	Diesel	1		Sep 2026	Sep 2026	5	NA	15
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Sep 2026	Sep 2026	NA	30	15
Lowboy Truck/Trailer	NA	Diesel	1		Sep 2026	Sep 2026	NA	30	15

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Worker Commutes	NA	Gas	6		Sep 2026	Sep 2026	NA	25	15
Guard Structures (in parallel with any road improvements)				5					
Auger Truck	221		1		Sep 2026	Sep 2026	8	NA	25
Backhoe/Front Loader	97	Diesel	1		Sep 2026	Sep 2026	8	NA	25
boom truck	231	Diesel	1		Sep 2026	Sep 2026	8	NA	25
bucket truck	NA	Diesel	1		Sep 2026	Sep 2026	NA	1	25
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Sep 2026	Sep 2026	NA	20	25
Lowboy Truck/Trailer Pole Truck	NA	Diesel	1		Sep 2026	Sep 2026	NA	15	25
Worker Commutes	NA	Gas	5		Sep 2026	Sep 2026	NA	25	25
Foundations – Tangents (east to west)				7					
10-Cu Dump Truck	NA	Diesel	2		Oct 2026	Dec 2027	NA	50	60
Backhoe - Front Loader	97	Diesel	2		Oct 2026	Dec 2027	5	NA	60
Drill Rig/Auger Truck	221	Diesel	2		Oct 2026	Dec 2027	5	NA	60
Truck Cranes, 20 - 30 Ton	231	Diesel	2		Oct 2026	Dec 2027	5	NA	60
Truck - 40' flat trailer	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	60
F250 4 x 4 Crewcab (3/4 T)	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	60
10 Cu Concrete Mixer Truck	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	60
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	60
Worker Commutes	NA	Gas	7		Oct 2026	Dec 2027	NA	25	60
Foundations – Dead Ends (east to west)				6					
10-Cu Dump Truck	NA	Diesel	1		Oct 2026	Dec 2027	NA	75	40
Backhoe - Front Loader	97	Diesel	2		Oct 2026	Dec 2027	5	NA	40
Drill Rig/Auger Truck	221	Diesel	2		Oct 2026	Dec 2027	5	NA	40
Truck Cranes, 20 - 30 Ton	231	Diesel	2		Oct 2026	Dec 2027	5	NA	40
Truck - 40' flat trailer	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	40
F250 4 x 4 Crewcab (3/4 T)	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	40
10 Cu Concrete Mixer Truck	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	40
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Oct 2026	Dec 2027	NA	25	40
Worker Commutes	NA	Gas	6		Oct 2026	Dec 2027	NA	25	40
Structure Assembly - Tangents				7					
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
F250 4 x 4 Crewcab (3/4 T)	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
Compressor Trailer	78	Diesel	2		Dec 2026	Dec 2027	5	NA	50
All Terrain Crane - 180 Ton	231	Diesel	2		Dec 2026	Dec 2027	5	NA	50

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Truck - 40 'flat trailer	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
Worker Commutes	NA	Gas	7		Dec 2026	Dec 2027	NA	25	50
Structure Assembly – Dead Ends				8					
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
F250 4 x 4 Crewcab (3/4 T)	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
Compressor Trailer	78	Diesel	2		Dec 2026	Dec 2027	5	NA	50
All Terrain Crane - 180 Ton	231	Diesel	2		Dec 2026	Dec 2027	5	NA	50
Truck - 40 'flat trailer	NA	Diesel	2		Dec 2026	Dec 2027	NA	25	50
Worker Commutes	NA	Gas	8		Dec 2026	Dec 2027	NA	25	50
Conductor Installation, Clipping, Dead-Ending, Shield Wire & OPGW Installation, Splicing				18					
F250 4X4 Crewcab (3/4 T)	NA	Diesel	3		Mar 2027	Dec 2027	NA	25	100
reel trailer	NA	Diesel	2		Mar 2027	Dec 2027	NA	25	100
1 Ton Crew Cab Flat Bed	NA	Diesel	3		Mar 2027	Dec 2027	NA	25	100
30 Ton Manitex	231	Diesel	4		Mar 2027	Dec 2027	5	NA	100
22 Ton Manitex	231	Diesel	1		Mar 2027	Dec 2027	5	NA	100
20,000 lbs, Forklift	89	Diesel	2		Mar 2027	Dec 2027	5	NA	100
580 Case Backhoe	97	Diesel	2		Mar 2027	Dec 2027	5	NA	100
sock line puller	172	Diesel	2		Mar 2027	Dec 2027	5	NA	100
4 Drum rope Puller	172	Diesel	1		Mar 2027	Dec 2027	5	NA	100
60,000 lbs Puller	172	Diesel	2		Mar 2027	Dec 2027	5	NA	100
Sag Cat Winch	172	Jet Fuel	1		Mar 2027	Dec 2027	5	NA	100
D8 Cat	97	Diesel	1		Mar 2027	Dec 2027	5	NA	100
Hughes 500 Helicopter	Heli	Diesel	1		Mar 2027	Dec 2027	5	NA	50
Fuel Helicopter Support	NA	Diesel	1		Mar 2027	Dec 2027	NA	50	100
Low Boy Truck and Trailer	NA	Diesel	1		Mar 2027	Dec 2027	NA	25	100
Worker Commutes	NA	Gas	18		Mar 2027	Dec 2027	NA	25	100
Restoration and Removal of Guard Structures				4					
Light-duty Truck	NA	diesel	2		Aug 2027	Dec 2027	NA	25	15
Road Grader	187	diesel	1		Aug 2027	Dec 2027	6	NA	15
Backhoe and Trailer	97	diesel	1		Aug 2027	Dec 2027	6	NA	15
Inspectors (Civil, Foundation and Electrical)				3					
Material Haul Trucks (10 trucks, used first 60 days of projects)	NA	Gas	10		Jul 2026	Sep 2026	NA	75	60

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Worker Commutes	NA	Gas	3		Jul 2027	Dec 2027	NA	75	150
PG&E Lockeford Substation									
General Construction Notice to Proceed by CPUC				10					
Water Truck	NA	Diesel	1		Aug 2026	Jul 2028	NA	50	450
Street Sweeper	NA	Diesel	1		Aug 2026	Jul 2028	NA	50	450
Phase 1a: Civil Site Preparation				10					
Pick-up Truck	NA	Diesel	3		Sep 2026	Oct 2026	NA	25	20
1-Ton Truck	NA	Diesel	2		Sep 2026	Oct 2026	NA	25	20
Office Trailer	84	Diesel	1		Sep 2026	Oct 2026	8	NA	20
Crawler Backhoe	97	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Bulldozer	247	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Front Loader	97	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Dump Truck	NA	Diesel	6		Sep 2026	Oct 2026	NA	90	20
Compactor / Roller	80	Diesel	4		Sep 2026	Oct 2026	4	NA	20
Air Compressor	78	Diesel	2		Sep 2026	Oct 2026	4	NA	20
Flat Bed Truck	NA	Diesel	3		Sep 2026	Oct 2026	NA	150	2
Worker Commutes	NA	Gas	10		Sep 2026	Oct 2026	NA	25	20
Phase 1a: Exterior Fence, Final Grading, and Paving				10					
Concrete Truck	NA	Diesel	80		Sep 2026	Oct 2026	NA	90	20
Pick-up Truck	NA	Diesel	3		Sep 2026	Oct 2026	NA	25	20
1-Ton Truck	NA	Diesel	2		Sep 2026	Oct 2026	NA	25	20
Office Trailer	84	Diesel	1		Sep 2026	Oct 2026	8	NA	20
Crawler Backhoe	97	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Bulldozer	247	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Front Loader	97	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Dump Truck	NA	Diesel	6		Sep 2026	Oct 2026	NA	90	20
Compactor / Roller	80	Diesel	4		Sep 2026	Oct 2026	4	NA	20
Air Compressor	78	Diesel	2		Sep 2026	Oct 2026	4	NA	2
Flat Bed Truck	NA	Diesel	3		Sep 2026	Oct 2026	NA	150	20
Grader	187	Diesel	2		Sep 2026	Oct 2026	8	NA	20
Worker Commutes	NA	Gas	10		Sep 2026	Oct 2026	NA	25	20
Phase 1b: Foundations, Excavation, and Installation				10					
Pick-up Truck	NA	Diesel	3		Oct 2026	Dec 2026	NA	25	40

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
1-Ton Truck	NA	Diesel	2		Oct 2026	Dec 2026	NA	25	40
Office Trailer	84	Diesel	1		Oct 2026	Dec 2026	8	NA	40
22 Ton Crane	231	Diesel	1		Oct 2026	Dec 2026	8	NA	40
Concrete Truck	NA	Diesel	80		Oct 2026	Dec 2026	NA	90	40
Front Loader	97	Diesel	1		Oct 2026	Dec 2026	8	NA	40
Dump Truck	NA	Diesel	1		Oct 2026	Dec 2026	NA	90	40
Compactor	8	Diesel	2		Oct 2026	Dec 2026	4	NA	40
Air Compressor	78	Diesel	2		Oct 2026	Dec 2026	4	NA	40
Forklift	89	Diesel	1		Oct 2026	Dec 2026	4	NA	40
Foundation Drill Rig	221	Diesel	1		Oct 2026	Dec 2026	8	NA	40
Flat Bed Truck	NA	Diesel	3		Oct 2026	Dec 2026	NA	150	2
Worker Commutes	NA	Gas	10		Oct 2026	Dec 2026	NA	25	40
Phase 1: Structure Delivery and Setup				12					
Flat Bed Truck	NA	Diesel	12		Sep 2026	Sep 2026	NA	150	4
Phase 2: Equipment Installation				10					
Pick-up Truck	NA	Diesel	3		Dec 2026	Mar 2027	NA	25	150
1-Ton Truck	NA	Diesel	2		Dec 2026	Mar 2027	NA	25	150
Office Trailer	84	Diesel	1		Dec 2026	Mar 2027	8	NA	150
30 Ton Crane	231	Diesel	1		Dec 2026	Mar 2027	4	NA	150
Front Loader	97	Diesel	2		Dec 2026	Mar 2027	4	NA	150
80' Aerial Lifts	63	Diesel	2		Dec 2026	Mar 2027	4	NA	150
40' Aerial Lifts	63	Diesel	2		Dec 2026	Mar 2027	4	NA	150
Dump Truck	NA	Diesel	1		Dec 2026	Mar 2027	NA	90	150
Compactor	8	Diesel	2		Dec 2026	Mar 2027	4	NA	150
Air Compressor	78	Diesel	2		Dec 2026	Mar 2027	4	NA	150
Forklift	89	Diesel	2		Dec 2026	Mar 2027	4	NA	150
Flat Bed Truck	NA	Diesel	3		Dec 2026	Mar 2027	NA	150	2
Worker Commutes	NA	Gas	10		Dec 2026	Mar 2027	NA	25	150
Phase 3: Dress/Test/Wire Equipment				10					
Rigging Truck	NA	Diesel	2		Mar 2027	Aug 2027	NA	25	40
Forklift	89	Diesel	2		Mar 2027	Aug 2027	8	NA	40
Manlift	63	Diesel	2		Mar 2027	Aug 2027	8	NA	40
Boom Truck	231	Diesel	2		Mar 2027	Aug 2027	8	NA	40
1-Ton Truck	NA	Diesel	2		Mar 2027	Aug 2027	NA	25	40

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Pick-up Truck	NA	Diesel	3		Mar 2027	Aug 2027	NA	25	40
Office Trailer	84	Diesel	1		Mar 2027	Aug 2027	8	NA	40
Flat Bed Truck	NA	Diesel	3		Mar 2027	Aug 2027	NA	150	2
Dump Truck	NA	Diesel	1		Mar 2027	Aug 2027	NA	90	20
Air Compressor	78	Diesel	2		Mar 2027	Aug 2027	4	NA	40
Worker Commutes	NA	Gas	10		Mar 2027	Aug 2027	NA	25	40
Phase 3: Cleaning and Landscaping				4					
Flat Bed Truck	NA	Diesel	1		Sep 2027	Oct 2027	NA	150	2
Pick-up Truck	NA	Diesel	1		Sep 2027	Oct 2027	NA	25	5
1-Ton Truck	NA	Diesel	1		Sep 2027	Oct 2027	NA	25	5
Small Backhoe	97	Diesel	1		Sep 2027	Oct 2027	8	NA	5
Dump Truck	NA	Diesel	1		Sep 2027	Oct 2027	NA	90	5
Worker Commutes	NA	Gas	4		Sep 2027	Oct 2027	NA	25	5
Phase 4A-4C: Rebuild Existing Substation.				10					
Rigging Truck	NA	Diesel	2		Feb 2028	Mar 2028	NA	25	40
Forklift	89	Diesel	2		Feb 2028	Mar 2028	8	NA	40
Manlift	63	Diesel	2		Feb 2028	Mar 2028	8	NA	40
Boom Truck	231	Diesel	2		Feb 2028	Mar 2028	8	NA	40
1-Ton Truck	NA	Diesel	2		Feb 2028	Mar 2028	NA	25	40
Pick-up Truck	NA	Diesel	3		Feb 2028	Mar 2028	NA	25	40
Office Trailer	84	--	1		Feb 2028	Mar 2028	8	NA	40
Flat Bed Truck	NA	Diesel	3		Feb 2028	Mar 2028	NA	150	2
Dump Truck	NA	Diesel	1		Feb 2028	Mar 2028	NA	90	20
Air Compressor	78	Diesel	2		Feb 2028	Mar 2028	4	NA	40
Worker Commutes	NA	Gas	10		Feb 2028	Mar 2028	NA	25	40
Phase 4D - 4F: Rebuild Existing Substation				10					
Rigging Truck	NA	Diesel	2		Apr 2028	Nov 2028	NA	25	171
Manlift	63	Diesel	2		Apr 2028	Nov 2028	4	NA	171
Boom Truck	231	Diesel	2		Apr 2028	Nov 2028	4	NA	171
1-Ton Truck	NA	Diesel	2		Apr 2028	Nov 2028	NA	25	171
Pick-up Truck	NA	Diesel	3		Apr 2028	Nov 2028	NA	25	171
Office Trailer	84	Diesel	1		Apr 2028	Nov 2028	8	NA	171
Flat Bed Truck	NA	Diesel	3		Apr 2028	Nov 2028	NA	150	2
Dump Truck	NA	Diesel	1		Apr 2028	Nov 2028	NA	90	171

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Air Compressor	78	Diesel	2		Apr 2028	Nov 2028	4	NA	171
Worker Commutes	NA	Gas	10		Apr 2028	Nov 2028	NA	25	171
Phase 5A -5C: Rebuild existing Substation				10					
Rigging Truck	NA	Diesel	2		Dec 2028	Apr 2029	NA	25	111
Forklift Manlift	63	Diesel	2		Dec 2028	Apr 2029	4	NA	111
Boom Truck	231	Diesel	2		Dec 2028	Apr 2029	4	NA	111
1-Ton Truck	NA	Diesel	2		Dec 2028	Apr 2029	4	NA	111
Pick-up Truck	NA	Diesel	3		Dec 2028	Apr 2029	NA	25	111
Office Trailer	84	Diesel	1		Dec 2028	Apr 2029	NA	25	111
Flat Bed Truck	NA	Diesel	3		Dec 2028	Apr 2029	4	NA	2
Dump Truck	NA	Diesel	1		Dec 2028	Apr 2029	NA	150	111
Air Compressor	78	Diesel	2		Dec 2028	Apr 2029	NA	90	111
Worker Commutes	NA	Gas	10		Dec 2028	Apr 2029	4	NA	111
Final Cleaning and Landscaping				4					
Flat Bed Truck	NA	Diesel	1		Apr 2029	Apr 2029	NA	150	2
Pick-up Truck	NA	Diesel	1		Apr 2029	Apr 2029	NA	25	5
1-Ton Truck	NA	Diesel	1		Apr 2029	Apr 2029	NA	25	5
Small Backhoe	97	Diesel	1		Apr 2029	Apr 2029	8	NA	5
Dump Truck	NA	Diesel	1		Apr 2029	Apr 2029	NA	90	5
Worker Commutes	NA	Gas	4		Apr 2029	Apr 2029	NA	25	5
Other				2					
Inspectors	NA	Diesel	1		Nov 2026	Apr 2029	NA	25	450
Material Haul Trucks	NA	Diesel	27		Sep 2026	Sep 2026	NA	150	2
PG&E 12 kV Service Line Extension into PG&E Thurman Switching Station									
General Construction				8					
Pick-up Truck	NA	Diesel	2		Jun 2027	Jul 2027	NA	25	20
Safety Inspection	NA	Diesel	1		Jun 2027	Jul 2027	NA	50	20
Worker Commutes	NA	Diesel	2		Jun 2027	Jul 2027	NA	25	20
Street Sweeper	NA	Diesel	1		Jun 2027	Jul 2027	NA	50	20
Mobilization to PG&E Thurman Switching Station Yard or Staging Area									
Direction Drill Machine -HDD	221	Diesel	1		Jun 2027	Jul 2027	8	NA	15
Vacuum Truck- Pump Intake	84	Diesel	1		Jun 2027	Jul 2027	8	NA	15
2 Stationary Pumps	84	Diesel	2		Jun 2027	Jul 2027	8	NA	15

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
10-Cu Asphalt/Concrete Truck	NA	Diesel	1		Jun 2027	Jul 2027	NA	60	2
10-Cu Dump Truck	NA	Diesel	1		Jun 2027	Jul 2027	NA	60	15
Water Truck	NA	Diesel	1		Jun 2027	Jul 2027	NA	60	15
Excavator/Ditch Witch	158	Diesel	1		Jun 2027	Jul 2027	8	NA	15
Backhoe/Front Loader	97	Diesel	2		Jun 2027	Jul 2027	8	NA	10
Road Grader	187	Diesel	1		Jun 2027	Jul 2027	8	NA	10
Drum Type Compactor	8	Diesel	1		Jun 2027	Jul 2027	8	NA	5
10-ton forklift	89	Diesel	1		Jun 2027	Jul 2027	5	NA	5
30 Ton Crane	231	Diesel	1		Jun 2027	Jul 2027	5	NA	5
Boom truck	231	Diesel	1		Jun 2027	Jul 2027	8	NA	5
Cable puller Truck, 4 × 4	NA	Diesel	1		Jun 2027	Jul 2027	NA	15	20
1-Ton Crew Cab Flatbed, 4 × 4	NA	Diesel	2		Jun 2027	Jul 2027	NA	15	20
Lowboy Truck/Trailer	NA	Diesel	1		Jun 2027	Jul 2027	NA	2	10
Worker Commutes	NA	Gas	8		Jun 2027	Jul 2027	NA	25	20
PG&E Remote-End Substations									
System Work at Brighton Substation				2					
Mechanics Truck	NA	Diesel	2		Oct 2027	Dec 2027	NA	25	30
Worker Commutes	NA	Diesel	2		Oct 2027	Dec 2027	NA	25	30
General Construction at Brighton Substation				2					
¾-Ton Pick-up Truck	NA	4			Aug 2028	Feb 2029	NA	20	5
1-Ton Truck	NA	1			Aug 2028	Feb 2029	NA	20	5
Manlift	63	1			Aug 2028	Feb 2029	5	NA	5
Dump Truck	NA	1			Aug 2028	Feb 2029	NA	6	5
Boom Truck	231	1			Aug 2028	Feb 2029	6	NA	5
Jack Hammer	172	1			Aug 2028	Feb 2029	6	NA	5
Small Backhoe	97	1			Aug 2028	Feb 2029	5	NA	5
Worker Commutes	NA	2			Aug 2028	Feb 2029	NA	25	30
System Work at Rio Oso Substation				2					
Mechanics Truck	NA	Diesel	2		Nov 2027	Jan 2028	NA	25	30
Worker Commutes	NA	Diesel	2		Nov 2027	Jan 2028	NA	25	30
General Construction at Rio Oso Substation				2					
¾-Ton Pick-up Truck	NA	4			Aug 2028	Feb 2029	NA	20	5
1-Ton Truck	NA	1			Aug 2028	Feb 2029	NA	20	5

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Manlift	63	1			Aug 2028	Feb 2029	5	NA	5
Dump Truck	NA	1			Aug 2028	Feb 2029	NA	6	5
Boom Truck	231	1			Aug 2028	Feb 2029	6	NA	5
Jack Hammer	172	1			Aug 2028	Feb 2029	6	NA	5
Small Backhoe	97	1			Aug 2028	Feb 2029	5	NA	5
Worker Commutes	NA	2			Aug 2028	Feb 2029	NA	25	30
System Work at Bellota Substation				2					
Mechanics Truck	NA	Diesel	2		Nov 2027	Jan 2028	NA	25	30
Worker Commutes	NA	Diesel	2		Nov 2027	Jan 2028	NA	25	30
General Construction at Bellota Substation				6					
¾-Ton Pick-up Truck	NA	4			Aug 2028	Feb 2029	NA	20	5
1-Ton Truck	NA	1			Aug 2028	Feb 2029	NA	20	5
Manlift	63	1			Aug 2028	Feb 2029	5	NA	5
Dump Truck	NA	1			Aug 2028	Feb 2029	NA	6	5
Boom Truck	231	1			Aug 2028	Feb 2029	6	NA	5
Jack Hammer	172	1			Aug 2028	Feb 2029	6	NA	5
Small Backhoe	97	1			Aug 2028	Feb 2029	5	NA	5
Worker Commutes	NA	2			Aug 2028	Feb 2029	NA	25	30
PG&E Clayton Hill Repeater Station – South Tower									
General Construction at Clayton Hill				2					
Mechanics Truck	NA	Diesel	2		Jun 2027	Aug 2027	NA	25	30
Worker Commutes	NA	Diesel	2		Jun 2027	Aug 2027	NA	25	30
PG&E Thurman Switching Station									
General Construction									
Water Truck	NA	Diesel	1		Nov 2026	Aug 2027	NA	50	85
Street Sweeper	NA	Diesel	1		Nov 2026	Aug 2027	NA	50	50
Civil Site Preparation				10					
Pick-up Truck	NA	Diesel	3		Dec 2026	Dec 2026	NA	25	20
1-Ton Truck	NA	Diesel	2		Dec 2026	Dec 2026	NA	25	20
Office Trailer	84	Diesel	1		Dec 2026	Dec 2026	8	NA	20
Crawler Backhoe	97	Diesel	2		Dec 2026	Dec 2026	8	NA	20
Bulldozer	247	Diesel	2		Dec 2026	Dec 2026	8	NA	20
Front Loader	97	Diesel	2		Dec 2026	Dec 2026	8	NA	20

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Dump Truck	NA	Diesel	6		Dec 2026	Dec 2026	NA	90	20
Compactor / Roller	80	Diesel	4		Dec 2026	Dec 2026	8	NA	20
Air Compressor	78	Diesel	2		Dec 2026	Dec 2026	4	NA	20
Flat Bed Truck	NA	Diesel	3		Dec 2026	Dec 2026	NA	150	2
Worker Commutes	NA	Gas	10		Dec 2026	Dec 2026	NA	25	20
Foundations, Excavation, and Installation				10					
Pick-up Truck	NA	Diesel	3		Jan 2027	Feb 2027	NA	25	40
1-Ton Truck	NA	Diesel	2		Jan 2027	Feb 2027	NA	25	40
Office Trailer	84	-	1		Jan 2027	Feb 2027	8	NA	40
22 Ton Crane	231	Diesel	1		Jan 2027	Feb 2027	8	NA	30
Concrete Truck	NA	Diesel	80		Jan 2027	Feb 2027	NA	90	30
Front Loader	97	Diesel	1		Jan 2027	Feb 2027	8	NA	40
Dump Truck	NA	Diesel	1		Jan 2027	Feb 2027	NA	90	40
Compactor	8	Diesel	2		Jan 2027	Feb 2027	8	NA	40
Air Compressor	78	Diesel	2		Jan 2027	Feb 2027	4	NA	40
Forklift	89	Diesel	1		Jan 2027	Feb 2027	8	NA	40
Foundation Drill Rig	221	Diesel	1		Jan 2027	Feb 2027	8	NA	40
Flat Bed Truck	NA	Diesel	3		Jan 2027	Feb 2027	NA	150	2
Worker Commutes	NA	Gas	10		Jan 2027	Feb 2027	NA	25	40
Structure Delivery and Setup									
Flat Bed Truck	NA	Diesel	10		Mar 2027	Mar 2027	NA	150	2
Equipment Installation				10					
Pick-up Truck	NA	Diesel	3		Apr 2027	Jun 2027	NA	25	60
1-Ton Truck	NA	Diesel	2		Apr 2027	Jun 2027	NA	25	60
Office Trailer	84	-	1		Apr 2027	Jun 2027	8	NA	60
30 Ton Crane	231	Diesel	1		Apr 2027	Jun 2027	4	NA	60
Front Loader	97	Diesel	2		Apr 2027	Jun 2027	4	NA	60
80' Aerial Lifts	63	Diesel	2		Apr 2027	Jun 2027	4	NA	60
40' Aerial Lifts	63	Diesel	2		Apr 2027	Jun 2027	4	NA	60
Dump Truck	NA	Diesel	1		Apr 2027	Jun 2027	NA	90	60
Compactor	8	Diesel	2		Apr 2027	Jun 2027	4	NA	40
Air Compressor	78	Diesel	2		Apr 2027	Jun 2027	4	NA	60
Forklift	89	Diesel	2		Apr 2027	Jun 2027	4	NA	60
Flat Bed Truck	NA	Diesel	3		Apr 2027	Jun 2027	NA	150	2

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Worker Commutes	NA	Gas	10		Apr 2027	Jun 2027	NA	25	60
Dress/Test/Wire Equipment				10					
Rigging Truck	NA	Diesel	2		Jul 2027	Aug 2027	NA	25	10
Forklift	89	Diesel	2		Jul 2027	Aug 2027	8	NA	40
Manlift	63	Diesel	2		Jul 2027	Aug 2027	8	NA	40
Boom Truck	231	Diesel	2		Jul 2027	Aug 2027	8	NA	40
1-Ton Truck	NA	Diesel	2		Jul 2027	Aug 2027	NA	25	40
Pick-up Truck	NA	Diesel	3		Jul 2027	Aug 2027	NA	25	40
Office Trailer	84	-	1		Jul 2027	Aug 2027	8	NA	40
Dump Truck	NA	Diesel	3		Jul 2027	Aug 2027	NA	90	10
Air Compressor	78	Diesel	1		Jul 2027	Aug 2027	4	NA	20
Worker Commutes	NA	Gas	10		Jul 2027	Aug 2027	NA	25	40
Exterior Walls, Final Grading, and Paving				10					
Concrete Truck	NA	Diesel	100		Sep 2027	Sep 2027	NA	90	20
Pickup Truck	NA	Diesel	3		Sep 2027	Sep 2027	NA	25	20
1-Ton Truck	NA	Diesel	2		Sep 2027	Sep 2027	NA	25	20
Office Trailer	84	-	1		Sep 2027	Sep 2027	8	NA	20
Crawler Backhoe	247	Diesel	2		Sep 2027	Sep 2027	8	NA	20
Bulldozer	97	Diesel	2		Sep 2027	Sep 2027	8	NA	20
Front Loader	NA	Diesel	2		Sep 2027	Sep 2027	NA	90	20
Dump Truck	80	Diesel	6		Sep 2027	Sep 2027	8	NA	20
Compactor/Roller	78	Diesel	4		Sep 2027	Sep 2027	4	NA	20
Air Compressor	NA	Diesel	2		Sep 2027	Sep 2027	NA	150	20
Flat Bed Truck	187	Diesel	3		Sep 2027	Sep 2027	8	NA	2
Grader	NA	Diesel	2		Sep 2027	Sep 2027	NA	25	20
Worker Commutes	NA	Gas	10		Sep 2027	Sep 2027	NA	90	20
Cleaning and Landscaping				4					
Flat Bed Truck	NA	Diesel	3		Sep 2027	Sep 2027	NA	150	2
Pick-up Truck	NA	Diesel	1		Sep 2027	Sep 2027	NA	25	5
1-Ton Truck	NA	Diesel	1		Sep 2027	Sep 2027	NA	25	5
Small Backhoe	97	Diesel	1		Sep 2027	Sep 2027	8	NA	5
Dump Truck	NA	Diesel	1		Sep 2027	Sep 2027	NA	90	5
Worker Commutes	NA	Gas	4		Sep 2027	Sep 2027	NA	25	5
Other									

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Material Haul Trucks	NA	Diesel	25		Sep 2027	Sep 2027	NA	150	2
Inspector Vehicles	NA	Diesel	1		Nov 2026	Sep 2027	NA	25	180
PG&E Microwave Tower Construction at PG&E Thurman Switching Station									
General Construction (includes the approximate 10 workers for Tower and Equipment Installations)									
Mechanics Truck	NA	Diesel	1		Apr 2027	July 2027	NA	25	80
Worker Commutes	NA	Gas	10		Apr 2027	July 2027	NA	25	80
Tower Foundation Installation				6					
Pick-up Truck	NA	Diesel	2		Apr 2027	Apr 2027	NA	25	20
1-Ton Truck	NA	Diesel	1		Apr 2027	Apr 2027	NA	25	20
Office Trailer	84	--	1		Apr 2027	Apr 2027	8	NA	20
22 Ton Crane	231	Diesel	1		Apr 2027	Apr 2027	8	NA	20
Concrete Truck	NA	Diesel	1		Apr 2027	Apr 2027	NA	90	20
Front Loader	97	Diesel	16		Apr 2027	Apr 2027	8	NA	20
Dump Truck	NA	Diesel	1		Apr 2027	Apr 2027	NA	90	20
Compactor	8	Diesel	1		Apr 2027	Apr 2027	8	NA	20
Air Compressor	78	Diesel	1		Apr 2027	Apr 2027	4	NA	20
Forklift	89	Diesel	1		Apr 2027	Apr 2027	8	NA	20
Foundation Drill Rig	221	Diesel	1		Apr 2027	Apr 2027	8	NA	20
Flat Bed Truck	NA	Diesel	1		Apr 2027	Apr 2027	NA	150	2
Structure Delivery and Setup									
Flat Bed Truck	NA	Diesel	4		Apr 2027	Apr 2027	NA	150	2
Tower Installation									
Pick-up Truck	NA	Diesel	3		May 2027	May 2027	NA	25	20
1-Ton Truck	NA	Diesel	2		May 2027	May 2027	NA	25	20
Office Trailer	84	-	1		May 2027	May 2027	8	NA	20
30 Ton Crane	231	Diesel	1		May 2027	May 2027	8	NA	20
Front Loader	97	Diesel	1		May 2027	May 2027	8	NA	20
120' Aerial Lifts	63	Diesel	1		May 2027	May 2027	8	NA	20
Dump Truck	NA	Diesel	1		May 2027	May 2027	NA	90	20
Air Compressor	78	Diesel	1		May 2027	May 2027	4	NA	20
Forklift	89	Diesel	2		May 2027	May 2027	8	NA	20
Flat Bed Truck	NA	Diesel	1		May 2027	May 2027	NA	150	2
Communication Equipment Installation & Testing									60

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Rigging Truck	NA	Diesel	1		Jun 2027	Jul 2027	NA	25	40
Manlift	63	Diesel	1		Jun 2027	Jul 2027	8	NA	40
Boom Truck	231	Diesel	1		Jun 2027	Jul 2027	8	NA	40
1-Ton Truck	NA	Diesel	2		Jun 2027	Jul 2027	NA	25	40
Pick-up Truck	NA	Diesel	3		Jun 2027	Jul 2027	NA	25	40
Office Trailer	84	-	1		Jun 2027	Jul 2027	8	NA	40
Dump Truck	NA	Diesel	1		Jun 2027	Jul 2027	NA	90	2
Air Compressor	78	Diesel	1		Jun 2027	Jul 2027	8	NA	20
Cleaning and Landscaping				4					
Flat Bed Truck	NA	Diesel	1		Jul 2027	Jul 2027	NA	150	2
Pick-up Truck	NA	Diesel	1		Jul 2027	Jul 2027	NA	25	5
1-Ton Truck	NA	Diesel	1		Jul 2027	Jul 2027	NA	25	5
Small Backhoe	97	Diesel	1		Jul 2027	Jul 2027	8	NA	5
Dump Truck	NA	Diesel	1		Jul 2027	Jul 2027	NA	90	5
Worker Commutes	NA	Gas	4		Jul 2027	Jul 2027	NA	25	5
Other									
Material Haul Trucks	NA	Diesel	2		Apr 2027	Apr 2027	NA	150	2
Inspector Vehicles	NA	Diesel	2		Apr 2027	Jul 2027	NA	150	20
LEU 12 kV Feeder Line -Relocation to Underground									
12 kV Feeder Circuit Installation				6					
Pickup Truck with Trailer	275	Diesel	2		Mar 2027	Mar 2027	8	20	10
Trencher	78	Diesel	1		Mar 2027	Mar 2027	8	NA	10
Horizontal Directional Driller	221	Diesel	1		Mar 2027	Mar 2027	8	NA	10
Worker Commutes	NA	Gas	6		Mar 2027	Mar 2027	NA	11	10
LEU Guild Substation - 230/60 kV Substation and LEU Industrial Substation Modification									
Survey				4					
½-Ton Pickup Truck, 4 x 4	275	Diesel	2		Feb 2027	Feb 2027	6	NA	30
Worker Commutes	NA	Gas	4		Feb 2027	Feb 2027	NA	10.8	30
Access Roads				6					
1-Ton Crew Cab Flat Bed, 4 x 4	275	Diesel	2		Mar 2027	Mar 2027	6	NA	30
Dump Truck	275	Diesel	1		Mar 2027	Mar 2027	6	NA	30
Skip Loader	203	Diesel	2		Mar 2027	Mar 2027	6	NA	30
Water Truck	275	Diesel	1		Mar 2027	Mar 2027	6	NA	30

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Worker Commutes	NA	Gas	6		Mar 2027	Mar 2027	NA	10.8	30
Site Work Area Preparation				6					
Water Truck	275	Diesel	2		Mar 2027	Mar 2027	6	NA	60
Bulldozer	247	Diesel	1		Mar 2027	Mar 2027	6	NA	60
Articulating Dump Truck	275	Diesel	4		Mar 2027	Mar 2027	6	NA	60
Scraper	367	Diesel	1		Mar 2027	Mar 2027	6	NA	60
Roller	80	Diesel	2		Mar 2027	Mar 2027	6	NA	60
Grader	187	Diesel	1		Mar 2027	Mar 2027	6	NA	60
Tandem Axle Dump Truck	275	Diesel	2		Mar 2027	Mar 2027	6	NA	60
Worker Commutes	NA	Gas	6		Mar 2027	Mar 2027	NA	10.8	60
Fence and Gate Installation				10					
Water Truck	275	Diesel	2		Apr 2027	May 2027	8	NA	30
½-Ton Pickup Truck, 4 x 4	275	Diesel	1		Apr 2027	May 2027	8	NA	30
1-Ton Crew Cab Flat Bed, 4 x 4	275	Diesel	1		Apr 2027	May 2027	8	NA	30
3-Ton Flat Bed Truck	275	Diesel	1		Apr 2027	May 2027	8	NA	30
Bobcat	100	Diesel	1		Apr 2027	May 2027	8	NA	30
Worker Commutes	NA	Gas	10		Apr 2027	May 2027	NA	10.8	30
Foundations				20					
Crane or Boom Truck	231	Diesel	1		May 2027	Jun 2027	8	NA	60
Hole Digger	221	Diesel	1		May 2027	Jun 2027	8	NA	60
Backhoe/Dozer/Excavator	247	Diesel	1		May 2027	Jun 2027	8	NA	60
Water Truck	275	Diesel	1		May 2027	Jun 2027	8	7.3	60
Pickup Truck	275	Diesel	1		May 2027	Jun 2027	8	NA	60
Worker Commutes	NA	Gas	20		May 2027	Jun 2027	NA	10.8	60
Ground Grid/Conduit Installation				8					
Trencher	78	Diesel	1		Jun 2027	Jul 2027	8	NA	60
Water Truck	275	Diesel	1		Jun 2027	Jul 2027	8	7.3	60
Worker Commutes	NA	Gas	8		Jun 2027	Jul 2027	NA	10.8	60
Transformer and Equipment Delivery and Installation				14					
Bucket Truck	275	Diesel	2		Jul 2027	Aug 2027	8	NA	60
2-Ton Truck	275	Diesel	1		Jul 2027	Aug 2027	8	7.3	60
Pickup Truck	275	Diesel	1		Jul 2027	Aug 2027	8	NA	60
Crane or Boom Truck	231	Diesel	1		Jul 2027	Aug 2027	8	NA	60
Tractor/Trailer	275	Diesel	1		Jul 2027	Aug 2027	8	7.3	60

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Portable Gas/Diesel Generator(s)	34	Diesel	1		Jul 2027	Aug 2027	8	NA	60
Worker Commutes	NA	Gas	14		Jul 2027	Aug 2027	NA	10.8	60
Steel/Bus Erection				6					
Water Truck	275	Diesel	1		Jul 2027	Aug 2027	8	7.3	30
Boom Truck	275	Diesel	1		Jul 2027	Aug 2027	8	NA	30
Aerial Man Lift	64	Diesel	1		Jul 2027	Aug 2027	8	NA	30
Worker Commutes	NA	Gas	6		Jul 2027	Aug 2027	NA	10.8	30
Yard Rock Installation				5					
Water Truck	275	Diesel	1		Sep 2027	Sep 2027	8	NA	60
Dump Truck	275	Diesel	1		Sep 2027	Sep 2027	8	NA	60
Bobcat	100	Diesel	1		Sep 2027	Sep 2027	8	NA	60
Worker Commutes	NA	Gas	5		Sep 2027	Sep 2027	NA	10.8	60
Clean-up and Restoration 1				3					
Crane or Boom Truck	231	Diesel	1		Oct 2027	Oct 2027	8	NA	30
Hole Digger	221	Diesel	1		Oct 2027	Oct 2027	8	NA	30
Backhoe/Dozer/Excavator	247	Diesel	1		Oct 2027	Oct 2027	8	NA	30
Water Truck	275	Diesel	1		Oct 2027	Oct 2027	8	7.3	30
Pickup Truck	275	Diesel	1		Oct 2027	Oct 2027	8	NA	30
Worker Commutes	NA	Gas	3		Oct 2027	Oct 2027	NA	10.8	30
Deliveries, Installations, Testing & Commissioning 1				6					
Aerial Man Lift	63	Diesel	1		Oct 2027	Oct 2027	8	NA	90
Crane	231	Diesel	1		Oct 2027	Oct 2027	8	NA	90
Boom Truck	275	Diesel	1		Oct 2027	Oct 2027	8	NA	90
Pickup Truck with Trailer	275	Diesel	2		Oct 2027	Oct 2027	8	7.3	90
Worker Commutes	NA	Gas	6		Oct 2027	Oct 2027	NA	10.8	90
Clean-up and Restoration 2				3					
Crane or Boom Truck	231	Diesel	1		Feb 2028	Feb 2028	8	NA	30
Hole Digger	221	Diesel	1		Feb 2028	Feb 2028	8	NA	30
Backhoe/Dozer/Excavator	247	Diesel	1		Feb 2028	Feb 2028	8	NA	30
Water Truck	275	Diesel	1		Feb 2028	Feb 2028	8	7.3	30
Pickup Truck	275	Diesel	1		Feb 2028	Feb 2028	8	NA	30
Worker Commutes	NA	Gas	3		Feb 2028	Feb 2028	NA	10.8	30
Deliveries, Installations, Testing & Commissioning 2				6					
Aerial Man Lift	63	Diesel	1		Feb 2028	Feb 2028	8	NA	90

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Crane	231	Diesel	1		Feb 2028	Feb 2028	8	NA	90
Boom Truck	275	Diesel	1		Feb 2028	Feb 2028	8	NA	90
Pickup Truck with Trailer	275	Diesel	2		Feb 2028	Feb 2028	8	7.3	90
Worker Commutes	NA	Gas	6		Feb 2028	Feb 2028	NA	10.8	90
PG&E 60 kV Power Lines Reconfiguration									
General Construction				15					
Pick-up Truck	NA	Diesel	15		Nov 2027	Feb 2028	NA	25	40
Worker Commutes	NA	Gas	15		Nov 2027	Feb 2028	NA	25	40
Safety Inspection	NA	Gas	1		Nov 2027	Feb 2028	NA	25	40
Water Truck	NA	Diesel	1		Nov 2027	Feb 2028	NA	50	40
Street Sweeper	NA	Diesel	1		Nov 2027	Feb 2028	NA	50	40
Removal and replacement of approx. (12) 60 kV Wood Poles - West end of Lockeford-Industrial				5					
Auger Truck	350	Diesel	221		Nov 2027	Nov 2027	8	NA	15
Backhoe/Front Loader	350	Diesel	97		Nov 2027	Nov 2027	8	NA	15
boom truck	350	Diesel	231		Nov 2027	Nov 2027	8	NA	15
bucket truck	350	Diesel	NA		Nov 2027	Nov 2027	NA	1	15
¾-Ton Pick-up Truck, 4 × 4	300	Diesel	NA		Nov 2027	Nov 2027	NA	20	15
Lowboy Truck/Trailer Pole Truck	200	Diesel	NA		Nov 2027	Nov 2027	NA	15	15
Worker Commutes	300	Diesel	5		Nov 2027	Nov 2027	NA	25	15
Restoration				3					
Light-duty Truck	NA	Diesel	2		Nov 2027	Nov 2027	NA	25	5
Road Grader	187	Diesel	2		Nov 2027	Nov 2027	6	25	5
Backhoe and Trailer	97	Diesel	1		Nov 2027	Nov 2027	6	NA	5
Worker Commutes	NA	Gas	3		Nov 2027	Nov 2027	NA	25	5
Replacement of approx. (2-4) 60 kV Wood Poles, reconfiguration outside of LEU Industrial Substation, 2 new spans, topping north end of Industrial Tap				5					
Auger Truck	221	Diesel	1		Feb 2028	Feb 2028	8	NA	15
Backhoe/Front Loader	97	Diesel	1		Feb 2028	Feb 2028	8	NA	15
boom truck	231	Diesel	1		Feb 2028	Feb 2028	8	NA	15
bucket truck	NA	Diesel	1		Feb 2028	Feb 2028	NA	1	15
¾-Ton Pickup Truck, 4 × 4	NA	Diesel	2		Feb 2028	Feb 2028	NA	20	15
Lowboy Truck/Trailer Pole Truck	NA	Diesel	1		Feb 2028	Feb 2028	NA	15	15

Equipment[4]	Approximate Estimated or Potential								
	Horsepower	Fuel Type	Quantity	Workforce	Start Date	End Date	Daily Use (Hours)	Miles/Day	Total Days
Worker Commutes	NA	Gas	5		Feb 2028	Feb 2028	NA	25	15
Restoration				4					
Light-duty Truck	NA	Diesel	2		Feb 2028	Feb 2028	NA	25	5
Road Grader	187	Diesel	2		Feb 2028	Feb 2028	6	25	5
Backhoe and Trailer	97	Diesel	1		Feb 2028	Feb 2028	6	NA	5
Worker Commutes	NA	Gas	4		Feb 2028	Feb 2028	NA	25	5
Other				10					
Material Haul Trucks	NA	Diesel	10		Nov 2027	Feb 2028	NA	75	5
PG&E Lodi and Lockeford Substations Remote End				2					
Mechanics Truck	NA	Diesel	2		Feb 2028	Feb 2028	NA	100	30
Worker Commutes	NA	Gas	2		Feb 2028	Feb 2028	NA	25	30

[a] This is a preliminary equipment list with approximate type, quantity, and use; other equipment may be identified when the project design is finalized or during construction if unexpected conditions require additional and/or different equipment. This information is summarized from Appendix B1a and Appendix B1b.

3.6.3 Construction Traffic

Construction crews (worker commutes) will be traveling to and from the proposed sites via a light-duty auto/truck as detailed in Table 3.6-1. Worker daily commute trips are estimated at approximately 10.8 miles roundtrip for LEU and estimated at approximately 25 miles roundtrip for PG&E. Equipment will be staged onsite in a work area or brought to the work area daily on work trucks or trucks with trailers. LEU estimates its construction trip types at approximately 7.3 miles as summarized in Appendix B1b. PG&E estimates its construction trip types in miles per day/vehicle by vehicle type and activity as detailed in Table 3.6-1.

Based on these assumptions, Table 3.6-2 is a summary of estimated vehicle trips and vehicle miles traveled (VMT) by trip type and project construction activity. Estimated vehicle trips are calculated with the daily trip count multiplied by days of use. Total VMT is estimated vehicle trips multiplied by miles/day/vehicle type. Approximately 95% of total VMT is associated with PG&E construction activities.

Table 3.6-2. Estimated Construction Vehicle Trips and Vehicle Miles Traveled

Project Construction Activity	Trip Type	Estimated Vehicle Trips	Total VMT by Activity Type
PG&E 230 kV Lines	Worker	6,131	153,275
PG&E 230 kV Lines	Construction	4,952	204,970
PG&E Lockeford Substation	Worker	5,750	143,750
PG&E Lockeford Substation	Construction	10,621	668,295
PG&E 12 kV Service Line Extension	Worker	200	5,000
PG&E 12 kV Service Line Extension	Construction	182	5,840
PG&E Remote-end Stations	Worker	420	10,500
PG&E Remote-end Stations	Construction	340	7,650

Project Construction Activity	Trip Type	Estimated Vehicle Trips	Total VMT by Activity Type
PG&E Thurman Switching Station	Worker	1,820	45,500
PG&E Thurman Switching Station	Construction	6,086	476,550
PG&E Thurman Microwave Tower	Worker	805	20,125
PG&E Thurman Microwave Tower	Construction	787	47,400
PG&E 60 kV Lines Reconfiguration	Worker	845	21,125
PG&E 60 kV Lines Reconfiguration	Construction	975	32,055
LEU 12 kV Underground Line	Worker	100	1,080
LEU Substation Construction	Worker	5,560	60,048
LEU Substation Construction	Construction	4,400	32,120

3.6.4 Construction Schedule

The preliminary summary proposed schedule is presented in Table 3.6-3. A detailed construction schedule is provided in Appendix B1a and Table 3.6-1 lists the potential start and end dates for each activity. However, delays to the start date are possible due to conditions outside PG&E's control, including land acquisition and materials and equipment procurement. Construction is targeted to start in approximately July 2026 with the new PG&E 230 kV line and all project-related construction is estimated to be complete in approximately April 2029. This schedule considers expected weather for a typical fall and winter, including rain and fog. LEU construction is expected to begin in approximately March 2027 and complete in approximately February 2028 or earlier depending on when the new 230 kV source is energized and the remaining two PG&E 60 kV lines are removed from LEU Industrial Substation. The final approximately 0.4 mile of the new PG&E 230 kV line (W44 to W48) will be constructed after PG&E Lockeford-Industrial 60 kV line is partially removed (pole 1 through pole 9) to allow the transmission line to reuse the power line alignment. PG&E Lockeford-Industrial Line will not be modified unless it appears there is sufficient time within the annual approximately November to March single PG&E 60 kV line outage window to remove the portion of the line and any remaining underbuild, install the 230 kV line to PG&E Thurman Switching Station, and complete testing and commissioning to place the new 230 kV source into service. Project work at PG&E Lockeford Substation, PG&E Thurman Switching Station, PG&E remote-end substations and repeater station, and LEU Industrial and LEU Guild substations also must be complete or nearing completion to support feasibility that PG&E and LEU will be able to place the new 230 kV source into service during a seasonal single PG&E 60 kV line outage. If the western end of PG&E Lockeford-Industrial Line is not removed as scheduled, the project will wait until the next outage window, likely the following November to March. Portions of existing 230 kV reconfiguration at PG&E Lockeford Substation and some site restoration at components may be able to occur while the new 230 kV work waits for the next single PG&E 60 kV line outage window.

Preconstruction bird nesting surveys will occur during the typical bird nesting season, as described in the project APM BIO-2 and BMP BIO-2. Buffers for active nests will be incorporated into the 2-week look-ahead schedule, which will be maintained during construction and adjusted as needed. Refer to Appendix C6 for a summary of PG&E Nesting Bird Management Plan for species-specific buffers.

Table 3.6-3. Preliminary Proposed Construction Schedule

Project Construction Activity	Proposed Schedule Approximate Date Ranges
PG&E 230 kV Transmission Line West end construction will complete November-March during outage window	July 2026 – December 2027
PG&E Lockeford Substation – new 230 kV 230 kV in-service will occur November-March	August 2026 – January 2028
PG&E Thurman Switching Station	November 2026 – September 2027

Project Construction Activity	Proposed Schedule Approximate Date Ranges
LEU 12 kV feeder line relocation	March 2027
PG&E Thurman Switching Station – Microwave Tower	April 2027 – July 2027
LEU Guild and Industrial Substations – prepare for 230 kV	February 2027 – February 2028
PG&E 12 kV Service Line Extension to PG&E Thurman Switching Station Duration reflects expected sequencing of in-road activities to avoid concurrent in-road activities (HDD, trenching, and road restoration)	June 2027 – July 2027
PG&E Clayton Hill Repeater Station	June 2027 – August 2027
PG&E Remote-end Substations – new 230 kV System	October 2027 – December 2028
PG&E Lockeford-Industrial 60 kV – west end removal West end of line and disconnection from LEU Industrial Substation will only occur during November-March annual and will not occur if 230 kV cannot be placed into service by March to accommodate typical LEU load increase.	November 2027
New PG&E 230 kV source is in service to LEU	December 2027 – March 2028
PG&E Lockeford Substation – complete existing 230 kV reconfiguration	February 2028 – April 2029
LEU Industrial Substation – remove PG&E Lodi-Industrial and Industrial Tap 60 kV lines	February 2028
PG&E Existing 60 kV Lines – complete reconfiguration of PG&E Lockeford-Lodi No. 1 (preliminary name)	February 2028
PG&E Remote-end Substations – existing 230 kV and reconfigured 60 kV system and communication	August 2028 – February 2029

3.6.5 Work Schedule

PG&E construction activities are anticipated to occur six days per week (Monday through Saturday) during daylight hours. LEU construction activities are anticipated to occur five days per week (Monday through Friday) during daylight hours. Work hours generally will be 10 hours per day with construction typically occurring between 7:00 a.m. and 5:30 p.m. Occasionally, work may occur during the evening hours for activities such as monitoring the foundation curing process and testing and commissioning substation components. However, such activities would not normally generate offensive or disturbing noises or lights. Night work is not planned.

Refer to Table 3.6-4 for an estimated approximate duration for construction activities at each type of work area. Activities at staging areas and stations, other than remote-end stations, is expected to occur for months. Construction activities at individual structure work areas along the power or transmission lines will be limited to a few days separated by weeks or months typically.

Table 3.6-4. Estimated Approximate Construction Duration at Work Area Types

Project Construction Activity	Estimated Duration
Staging Areas outside of stations (approximately 3 areas or 10 to 15 acres) Expected to support new transmission line and station construction	21 months
Staging Areas in existing or proposed PG&E and LEU facilities	34 months
PG&E 230 kV Transmission Line – Individual Work Areas and Access Preparation including Guard Structures	< 1 day/structure on average
PG&E 230 kV Transmission Line – Structure Foundation, generally expected to be installed east to west or as land rights are secured	1-2 days/structure
PG&E 230 kV Transmission Line – Structure Assembly and Erection	1-2 days/structure
PG&E 230 kV Transmission Line – Helicopter Use, sock line stringing	< 0.25 day/structure

Project Construction Activity	Estimated Duration
PG&E 230 kV Transmission Line – Conductor Installation	1-2 days/structure
PG&E 230 kV Transmission Line – Pull and Tension Sites	Approximately 2 weeks/site
PG&E 230 kV Transmission Line – Restoration	<1 day/structure on average
PG&E Lockeford Substation – New 230 kV, peak activity period	8 months
PG&E Lockeford Substation – Existing 230 kV reconfiguration	25 months
PG&E Thurman Switching Station	11 months
LEU 12 kV feeder line relocation	10 days
PG&E Thurman Switching Station – Microwave Tower	4 months
LEU Guild and Industrial Substations Final month will occur when 230 kV is placed into service and remaining 2 PG&E 60 kV lines are removed from LEU Substation	6 months + 1 month
PG&E 12 kV Service Line Extension to Thurman – HDD, Trenching Potential parking restrictions or single lane closure – road remains open	20 days
PG&E Clayton Hill Repeater Station	30 days
PG&E Remote-end Substations – new 230 kV	10 days/PG&E substation
PG&E Lockeford-Industrial – remove west end	1-2 days/structure
PG&E Existing 60 kV Lines – complete reconfiguration	1-2 days/structure
PG&E Remote-end Substations – existing 230 kV and 60 kV	20 days/substation

3.7 Post Construction

3.7.1 Configuring and Testing

No special process is planned for configuring and testing. The project will use the testing procedures recommended by IEEE and the equipment manufacturers. The estimated equipment, duration of work, and personnel requirements for testing are presented in Table 3.6-1.

After 230 kV equipment testing, end-to-end testing, and SCADA testing have been completed and PG&E Thurman Switching Station has been energized, LEU Guild Substation will complete a start-up process to receive the 230 kV feed. All necessary clearances will be coordinated between LEU and PG&E. All switches and breakers will be open. The first set of switches will be closed for the current transformer and potential transformers to be tested. The next set of switches and the high side breakers will be closed. The breakers will be operated to confirm that the relay settings are correct. The transformers will be allowed to soak for an approximately 24-hour period before placing load on them.

A similar process will be used for the reconfigured PG&E and LEU 60 kV and 12 kV lines before they are placed into service.

3.7.2 Landscaping

Landscaping is not anticipated as part of the project.

3.7.3 Demobilization and Site Restoration

3.7.3.1 Demobilization

Surplus material, equipment, and construction debris will be removed at the completion of construction activities. All project construction debris will be removed and recycled or disposed of at permitted landfill

sites, as appropriate. Cleared vegetation will be mulched and left onsite. Mulched vegetation will be spread out throughout the proposed fenced area before final yard rock is laid.

3.7.3.2 Site Restoration

Construction debris will be picked up regularly from construction areas and stored in approved containers onsite; the debris will be hauled away for recycling or disposal periodically during construction. At work areas, final grading will restore contours in keeping with those of the surrounding area. Each site will be returned to preproject conditions or as specified in landowner agreements. Best practices will be installed, inspected, and maintained according to the SWPPP, as necessary to stabilize disturbed soils. Crews will conduct a final survey to document that cleanup activities have been successfully completed as required.

All areas temporarily disturbed by the project will be restored to the greatest extent practicable following construction. These disturbed areas include staging areas and access roads, areas around each tower/pole, and areas used for conductor stringing and staging. Post-construction restoration activities will include returning areas to their original contours and drainage patterns in accordance with SWPPP best practices and following prearranged landowner agreements, where applicable.

All temporarily disturbed areas within and around any work area and unpaved access will be restored to the greatest extent practicable following construction. All construction waste will be disposed of in accordance with all applicable federal, state, and local laws regarding solid and hazardous waste disposal through transport to an authorized landfill.

3.8 Operation and Maintenance

Following construction of the project, operation and maintenance activities will consist of routine inspection, repair, and maintenance activities, which will be conducted as they are under existing conditions for existing facilities modified or expanded as part of this project. New facilities will be incorporated into existing operation and maintenance procedures of either PG&E or LEU depending on facility ownership. Operation and maintenance of new facilities will be implemented by existing utility workers or suppliers and contractors of PG&E and LEU, respectively.

3.8.1 Regulations and Standards

PG&E is a public utility and the operation of its project portion will be regulated by the CPUC. LEU is a municipal utility of the City of Lodi and its portion of the project will be regulated by the City of Lodi, not the CPUC.

3.8.1.1 PG&E Regulations and Standards

For the affected PG&E facilities, through the course of following detailed engineering and design, PG&E will identify and document changes:

- Operations and maintenance activities
- Assets
- Guidance documents
- Organizational structure
- Suppliers and contractors
- Tools and equipment

The following regulations and standards guide PG&E's operation and maintenance activities for electric lines, switching stations, substations, and communication systems:

- CPUC GO 95 regulates all aspects of design, construction, operation, and maintenance of electrical power lines and fire safety hazards for utilities subject to CPUC jurisdiction.
- CPUC GO 165 applies to all electric distribution and transmission facilities (excluding those facilities contained in a substation) subject to CPUC jurisdiction and orders additional inspection requirements beyond GO 95 to maintain a safe and reliable electric system.

Detailed transmission line inspections and routine patrols will be performed in accordance with PG&E's *Transmission Owner Maintenance Practices for Electrical Overhead Transmission Lines*, in the latest revision, as filed with CAISO. CPUC GO 174 also regulates substation inspection programs for utilities subject to CPUC jurisdiction to promote the safety of workers and the public and enable adequacy of service.

CAISO *Transmission Owner Maintenance Practices for Electrical Substations*, and NERC PRC-005-2, "Protection System Maintenance," supply applicable guidance for maintenance procedures. Refer to Section 3.5.13 for fire prevention and response procedures. The following regulations and standards also apply to maintenance:

- NERC Standard FAC-003-4, which establishes vegetation management standards for electric transmission lines
- California PRC Sections 4292 to 4293 and 4295.5, which address fire hazard reduction for electric lines and establish minimum clearances
- PG&E's *2022 Wildfire Mitigation Plan* (submitted to the CPUC on February 7, 2022), which presents PG&E's plan to mitigate for wildfires

Refer to Section 5.20, Wildfire, for more information about applicable PG&E wildfire prevention regulations and standards in PG&E's *2022 Wildfire Mitigation Plan*[11]. The project is not located within a high fire threat district (HFTD), other than PG&E Clayton Hill Repeater Station, where nonground-disturbing work will occur within the paved, fenced station. The project's minor modification of PG&E Clayton Hill Repeater Station will not change the existing wildfire management procedures for the PG&E facility. The project components are located outside of an HFTD and do not require any special procedures for wildfire management.

3.8.1.2 LEU Regulations and Standards

LEU is a municipal utility of the City of Lodi and is not regulated by the CPUC; LEU is regulated by the City of Lodi. LEU's substation inspection procedure was developed to be consistent with CPUC GO 174. LEU meets or exceeds the minimum inspection cycles provided in CPUC GO 165 and CPUC GO 95, Rule 18 for its electrical lines.

Refer to Section 5.20, Wildfire, for more information about applicable LEU wildfire prevention regulations and standards in LEU's *2021 Wildfire Mitigation Plan*[12]. The LEU portion of the project is located outside of an HFTD and does not require any special procedures for wildfire management.

3.8.2 System Controls and Operation Staff

PG&E Bellota, PG&E Brighton, PG&E Lockeford, PG&E Lodi, and PG&E Rio Oso substations, PG&E Clayton Hill Repeater Station, and 60 kV and 12 kV lines associated with the project are existing facilities, with operations controlled remotely from PG&E's Vacaville Control Center, near Vacaville, California. Monitoring and control functions for the new PG&E Thurman Switching Station facility will be connected to the existing PG&E transmission energy management system by telecommunication circuits. The new PG&E transmission lines, modified PG&E 60 kV lines, and extended PG&E 12 kV secondary station service

[11] https://www.pge.com/en_US/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan.page

[12] https://www.lodi.gov/949/Wildfire-Mitigation-Plan

line will be monitored and protected by sets of relays located at each end of the line. The required constant communication between protective relays at each end will be over redundant communication paths. The relays also are connected into PG&E's SCADA system. Data collection devices for the SCADA system typically include remote terminal units, microprocessor relays, data concentrators, and fault recorders. The devices will be capable of storing data for download via local and/or remote access. Any alarms resulting from relay actions will be promptly annunciated at PG&E's GCC located in Vacaville, California. In the event of an alarm, required corrective actions can be initiated quickly by operators on round-the-clock duty at the GCC. No new full-time staff will be required for operation and maintenance of the PG&E portion of the project.

Monitoring via SCADA of the LEU facilities will be performed from the remote-control room at the City of Lodi's main office located at 1331 South Ham Lane for LEU Industrial and LEU Guild substations, and the relocated LEU 12 kV feeder line. The new breakers and transformers at LEU Guild Substation will be monitored and controlled through SCADA as well. Breakers will have breaker status, low gas alarm, and open/close control. The transformers will have top oil temperature, load tap changer (LTC) position, alarms, and raise or lower LTC control. The City is properly staffed for the operation and maintenance of this additional substation; no new full-time staff will be required.

3.8.3 Inspection Programs

Regular inspection of electrical lines, stations, instrumentation and controls, and support systems is critical for safe, efficient, and economical operation. Early identification of equipment needing maintenance, repair, or replacement will assure continued safe operation of the project.

PG&E is a public utility and the inspection of its project portion will be regulated by the CPUC. LEU is a municipal utility of the City of Lodi and its portion of the project will be regulated by the City of Lodi, not the CPUC. As detailed in Section 5.20, Wildfire, the project is not located in an elevated wildfire hazard zone that would trigger enhanced inspections, and the minor modification of PG&E Clayton Hill Repeater Station will not require enhanced inspections for its location within an HFTD.

3.8.3.1 PG&E Transmission, Power, and Service Lines

Aboveground components will be inspected at least annually for corrosion, equipment misalignment, loose fittings, and other common mechanical problems. PG&E routinely inspects electrical line structures and stations to verify stability, structural integrity, and the condition of equipment (for example, fuses, breakers, relays, cutouts, switches, transformers, paint). The current PG&E electrical line inspection process involves three types of inspections: (1) ground inspections, (2) aerial inspections, and (3) climbing inspections if ground inspections indicate a need. The transmission lines will be inspected annually for Western Electricity Coordinating Council (WECC) compliance, with detailed ground and aerial inspections, or as needed when driven by an event, such as an emergency. A helicopter would be used for annual aerial inspections of the new 230 kV lines and would be completed within one workday. For ground and climbing inspections, TSPs are accessed from existing roads or may require off-road travel, either in vehicles or on foot depending on weather and soil conditions, and these inspections are assumed to occur over approximately 15 days with approximately 5 structures inspected per day. PG&E's 60 kV lines are inspected every 5 years (outside of WECC) and the review of the replaced structures and new spans of PG&E Lockeford-Lodi No.1 Line (preliminary name) would be conducted within approximately 1 day, as part of an inspection of the full line. Inspections will not require construction of new access roads.

Detailed transmission line inspections and routine patrols will be performed in accordance with PG&E's *Transmission Owner Maintenance Practices for Electrical Overhead Transmission Lines*, in the latest revision, as filed with CAISO. Typically, there are no O&M inspections conducted on a new transmission line for the first 5 years following the in-service date. After 5 years, inspections typically are performed annually by either vehicle or helicopter. Inspection crews will examine the lines to assess the condition of components, including hardware, insulators, and conductors. Insulators are not washed as part of regular maintenance unless inspections determine this is necessary.

The inspections of reconfigured existing PG&E 60 kV lines will continue per existing procedures with the existing PG&E operation and maintenance staff workforce.

The underground portion of the extended 12 kV secondary service line into PG&E Thurman Switching Station will be inspected every 3 years. The inspection includes a visual evaluation followed by an infrared inspection. The visual inspection looks at the condition of the exterior and interior of the underground equipment, cable, and any splices and elbows within the primary enclosure. The infrared assessment uses an infrared camera to gather temperature values of the cable and connections and analyze any temperature differential to inform about operation and potential maintenance of defective or damaged line components.

3.8.3.2 PG&E Substations, Switching Station, and Repeater Station

Routine inspections and preventive maintenance by substation personnel occur regularly, in accordance with PG&E's CAISO *Transmission Owner Maintenance Practices for Electrical Substations*, and NERC PRC-005-2, "Protection System Maintenance," latest revision, or as needed under emergency conditions or for corrective maintenance. In addition, PG&E manages an ongoing inventory of critical spare parts for transmission substation equipment, in case of emergencies.

PG&E substation and switching station systems have single-day monthly visual inspections and detailed annual and 5-year inspections. Station component or system inspections may be scheduled every 2 to 8 years for a given station component or system. Conservatively, yearly inspections are estimated at up to approximately 24 workdays annually to accommodate potential inspections and maintenance that may occur in a given year. Typical minor maintenance tasks at stations include repair and replacement of transformers, switches, fuses, cutouts, meters, and insulators. Work typically is confined to the substation property and uses existing access, with the worker arriving in a light-duty truck. If insulator washing is required, a pumper tanker with pressure washing equipment would be used. Current ongoing routine O&M activities are sufficient for the existing PG&E substation facilities modified or expanded by the project and the new PG&E Thurman Switching Station.

3.8.3.3 LEU Facilities

The City of Lodi's substation inspection procedure is to visually inspect each substation at least once per calendar month. The activity includes inspecting all major equipment and structures, as well as the overall condition of the yard, including perimeter fences and gates. Equipment inspections include substation batteries, fire detection and suppressions systems, structures, buses, breakers, grounding systems, voltage regulators, and transformers. Approximately 4 hours of additional truck use per month is estimated for inspection and maintenance of the LEU portion of the project. LEU Guild Substation's maintenance trip is expected to be planned in conjunction with LEU Industrial Substation's existing maintenance trip schedule. LEU meets or exceeds the minimum inspection cycles provided in CPUC GO 165 and CPUC GO 95, Rule 18. A detailed inspection will occur at least every 5 years on the underground portion of the relocated 12 kV feeder line and existing LEU utility staff will conduct the inspection as part of the review of the other portions of the feeder line.

3.8.4 Maintenance Programs

Maintenance programs will continue for existing facilities and be implemented for new facilities by PG&E and LEU using existing maintenance programs to avoid service interruptions and outages. In addition to regular maintenance, facilities sometimes are damaged by storms, floods, vandalism, or accidents; these situations require immediate repair. Emergency repair operations will involve the prompt deployment of PG&E or LEU crews and necessary equipment to repair and replace damaged facilities.

No permanent access roads (other than interior station access) will be installed as part of the project. In coordination with landowners where PG&E has permanent access rights, PG&E may perform maintenance on existing access roads to allow safe access to its facilities. Depending on the type of road maintenance

required, equipment could include a front loader, pickup trucks with trailers, a dump truck, or other similar equipment or vehicles. PG&E or LEU facilities will not be color treated and no landscaping is planned; no color maintenance or landscaping maintenance will be required.

3.8.4.1 PG&E Facilities

Routine maintenance will be performed by PG&E to correct conditions identified during inspections of new and modified transmission, power, and service lines; substations; switching station and repeater station; or other situations requiring immediate repair. If the facilities are in operation beyond the estimated 75-year life span, PG&E will comply with applicable utility procedures, standards, and regulatory requirements at that time.

Typical maintenance procedures include insulator washing and replacement, repair and replacement of substation components, outage repairs, electrical line repair, replacement and reconductoring.

Insulator Washing and Replacement

Conductive airborne particles or bird droppings that settle on ceramic insulators can provide a path across the insulators, causing contamination-induced electric faults. Insulators are washed periodically to prevent faults using a truck- or trailer-mounted spray system or a helicopter. A pumper truck (3,000-gallon volume) or a helicopter (1,500-2,000-gallon volume) would be used to clean insulators that required washing. Approximately 45,000 gallons of water would be required for the washing. Washing typically is done during energized conditions (that is, while the power lines are operating). Distilled water is used to wash the insulators; dry washing with ground corn hulls also is used.

PG&E replaces insulators when they have been damaged by gunshot, lightning, or heavy corrosion or when they no longer can be washed. Insulators can be replaced while energized or de-energized, depending on access, loading, and safety. Replacement typically takes a four- to six-person crew with a small truck for hauling crew members, tools, and materials. If access is limited, a helicopter may be used to land crew members and tools. Insulators are washed or replaced approximately every 5 years unless inspections identify washing is needed prior to that period.

Substation Maintenance

Typical minor maintenance tasks at substations include repair and replacement of transformers, switches, fuses, cutouts, meters, and insulators. Maintenance of substation systems requires this type of work approximately once per year. Monthly maintenance may occur based on monthly inspection observations. Work typically is confined to the substation property.

Outage Repairs

Activities involving outage repair are necessary to maintain reliable service and ensure public safety. Weather, equipment failure, accidents, fire, or bird electrocution are typical causes of outages. When an outage is reported, PG&E patrols the line until personnel determine the cause of the outage. Access is primarily on existing roads, although some overland access with small trucks or SUVs may be needed. Depending on the cause of the outage, repair may entail anything from reclosing a switch to replacing a transformer or pole. Crews repair and restore circuits as quickly as possible.

Line Repair, Replacement, and Reconductoring

PG&E repairs or replaces pole (for example, crossarms, insulators, pins, transformers, wires, cables, guys, anchors, switches, fuses, and paint) and underground line equipment (for example, elbows, terminations, joints, and splices) when it fails, becomes unsafe, outlasts its usefulness, or is identified for replacement. Repair and replacement of line equipment typically are performed with the pole and line in place, using a line truck for access to line components.

PG&E replaces conductors when they are outdated and less reliable or no longer capable of meeting required capacity, as is the case on this project. Because PG&E will install all new structures during the project, any future reconductoring would likely require conductor or cable replacement only at the end of its estimated 75-year asset life span.

Microwave Tower, Repeater Station/Antenna Maintenance

PG&E repairs or replaces communication structures and attachments when they fail, become unsafe, outlast their usefulness, or are identified for replacement. The drum-type antennas expected to be installed on the microwave towers for this project have a dehydrator component which has a filter that is replaced annually. Annual filter replacement would use a line truck to access the facility.

LEU Facilities

Typical LEU substation maintenance includes bushing cleaning and replacement and transformer oil testing. The substation yards and LEU Guild Substation access road will be rerocked as necessary. The City of Lodi's maintenance procedure is to replace equipment in-kind at the end of equipment life spans. All equipment will be scraped and removed at approved vendor locations. LEU maintenance of its electrical lines is consistent with CPUC GO 165.

3.8.5 Vegetation Management Program

Existing vegetation management will continue within and surrounding existing project facilities. Vegetation management will not be required or will not change for LEU 12 kV feeder line relocated underground, LEU Industrial Substation, PG&E remote-end substations, PG&E repeater station, PG&E modified 60 kV lines, PG&E underground 12 kV service line extension to PG&E Thurman Switching Station, and lines within stations. PG&E's Clayton Hill Repeater Station is the only project facility located within an HFTD. The project activities at the PG&E repeater station will occur within the existing fence line of the paved facility and will not disturb ground. No change will occur to the existing vegetation management activities at PG&E Clayton Hill Repeater Station with the implementation of this project.

Vegetation trimming will be performed as needed to maintain the required safety buffer in accordance with:

- FERC Order No. 777
- NERC Standard FAC-003-3
- CPUC GO 95, Rule 35, and Rule 37, Table 1, Case 4 for 230 kV Transmission Lines

3.8.5.1 Electrical Line Vegetation Management

PG&E performs routine vegetation management on all of its overhead electric distribution, power, and transmission facilities to maintain compliance with PRC Section 4293, CPUC GO 95, Rule 35, and NERC FAC-003-4. The clearance regulations identify, by voltage, minimum clearance distances that PG&E must maintain between vegetation and energized conductors.

Routine vegetation management includes an annual patrol of vegetation growing near overhead distribution, power, and transmission facilities. It also includes pruning or removal of trees that will not remain outside of required clearance distances or that may pose a hazard to electric facilities before the next year's patrol. When appropriate—considering tree species, growth rates, site conditions, landowner notification, and appropriate permits—PG&E removes trees growing below overhead electrical line facilities while conducting routine maintenance activities. Trees are cut off at ground level, with the roots and stump left in place.

PG&E performs vegetation management around poles and TSP foundations on its electrical line facilities to maintain the visibility necessary to inspect for structural integrity. Vegetation management includes

patrol of poles and removal of all trees, tree seedlings, and any material that obstructs the ability to visually inspect for structural integrity. The work is scheduled throughout the year and the work type depends on the plant material to be removed. Vegetation management involves cutting vegetation with string trimmers or chainsaws.

This project does not include new LEU electrical line facilities that are aboveground or outside of substations; therefore, no line vegetation management is required by LEU.

3.8.5.2 Station Vegetation Management

PG&E conducts vegetation management inside and outside of station facilities as required to meet CPUC regulations, reduce and eliminate fire hazards, enhance security for fenced facilities, enhance aesthetics, and reduce potential for illegal dumping and homeless encampments. Activities on PG&E lands to control vegetation external to stations may include mowing grass and weeds. Treatments include pruning or removing vegetation on the immediate perimeter of a fenced facility (usually within approximately 3 to 5 feet of the fence, or farther in the case of hazard trees or other fire hazards). Workers may use tractors, flail mowers, or string trimmers for mowing and discing operations. Tree service crews use chainsaws to manually prune or remove hazard trees and to cut brush. Herbicides may be applied, when appropriate, by use of vehicle-mounted spray equipment on tractors, all-terrain vehicles, and pickups, or manually applied by backpack sprayer. Herbicide applications on special projects are prescribed by a California Licensed Pest Control Adviser and may include pre-emergent, directed post-emergent, and cut-stump treatments.

Existing station vegetation management will not change with the implementation of the project other than less vegetation management will be required at PG&E Lockeford Substation, and on the formerly vegetated land where LEU Guild Substation and PG&E Thurman Switching Station will be located. PG&E will implementation vegetation management on the vegetated portions of the PG&E Thurman Switching Station parcel outside the facility fence line. The new PG&E vegetation management, likely mowing, around the perimeter of the switching station parcel will be offset by the reduction in mowing required at the expanded PG&E Lockeford Substation and new PG&E Thurman Switching Station and LEU Guild Substation footprints.

Existing vegetation management within LEU Industrial Substation includes weeding as necessary, and rerocking areas with compacted gravel base to suppress vegetation growth within the station fence lines. Weeding and rerocking areas as needed will continue within the modified LEU Industrial Substation, and will occur within the new LEU Guild Substation. Existing vegetation management surrounding LEU Industrial Substation, typically mowing, will continue on the remaining portions of City of Lodi land outside LEU Industrial and LEU Guild substations along East Thurman Road.

3.9 Decommissioning

At this time, it is difficult to predict precisely when or how the project will be decommissioned at the end of the project's useful life. At the time of decommissioning, PG&E and LEU will review and consider current options, issues, and regulatory requirements in consultation with landowners, occupants, government representatives, and other participants having interest in the work.

3.10 Anticipated Permits and Approvals

The CPUC is the lead state agency for the project under CEQA because a CPCN is required in accordance with CPUC's GO 131 D, Section III.A. GO 131 D contains the CPUC's permitting requirements for the construction of transmission and power line facilities. In addition to the CPCN, PG&E will obtain all applicable permits for the project from federal, state, and local agencies.

LEU is a municipal utility of the City of Lodi and is not regulated by the CPUC; LEU does not need authorization from the CPUC to construct and operate its components of the project. However, because the PG&E components and the LEU components are intended to be constructed together and are

interconnected, the actions by both constitute the "whole of the action" for purposes of CEQA review and will be evaluated in a single CEQA document. The City of Lodi intends to rely on the CEQA document prepared by the CPUC to comply with CEQA before undertaking any discretionary actions it needs to start its construction of its new 230/60 kV substation and related work on its 60 kV system. Although LEU is not subject to CPUC jurisdiction, LEU intends to implement the mitigation measures identified in the CPUC's CEQA document that apply to the LEU portion of the project.

The necessary federal, state, regional, and local permits that may be required for the PG&E portion of the project are included in Table 3.10-1.

Table 3.10-1. Permits and Approvals that May be Required for PG&E's Portion of the Project

Permit/Authorization | Status	Agency | Contact	Purpose
Federal		
FAA 14 CFR Part 77 Notifications | Issued: 04/26/2022	Federal Aviation Administration | Daniel Shoemaker Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177	Notification for objects affecting navigable airspace
State		
Certificate of Public Convenience and Necessity | Application Submitted: August 2023	CPUC | Boris Sanchez California Public Utilities Commission Infrastructure Planning and CEQA, Energy Division 505 Van Ness Avenue San Francisco, CA 94102 Boris.Sanchez@cpuc.ca.gov	Overall project approval, CEQA review, and issuance of a CPCN
National Pollutant Discharge Elimination System – General Construction Stormwater Permit (ministerial) | PG&E will apply after CPCN issued	Regional Water Quality Control Board | Regional Board: 5S / Central Valley 11020 Sun Center Drive, #200 Rancho Cordova, CA 95670-6114	Stormwater discharges associated with construction activities disturbing more than 1 acre of land
Encroachment Permit | PG&E will apply after CPCN issued	Caltrans | Francisco J. Rodriguez, P.E. District Permit Engineer District 10 Encroachment Permits Francisco_J_Rodriguez@dot.ca.gov	Electrical line installation over SR 88 and over SR 12
Encroachment Permit Section 408 Review | PG&E will apply after CPCN issued	Central Valley Flood Protection Board | Steve Lamb, PE Permitting Section Chief Central Valley Flood Protection Board steven.lamb@CVFlood.ca.gov	Electrical line installation over federal levee (Bear Creek), 2 crossings
Regional		

Permit/Authorization | Status	Agency | Contact	Purpose
Dust Control Plan (Rule 3135) | PG&E will apply after CPCN issued	San Joaquin Valley Air Pollution Control District | Central Region Office 1990 E. Gettysburg Avenue Fresno, CA 93726-0244	Projects in which construction-related activities will disturb 5 or more acres of surface area
Demolition Permit Release Form | PG&E will apply after CPCN issued	San Joaquin Valley Air Pollution Control District | Central Region Office 1990 E. Gettysburg Avenue Fresno, CA 93726-0244	Review of asbestos survey for demolition of PG&E Rio Oso-Lockeford lattice steel tower.
Indirect Source Review (ISR) (Rule 9510) Air Impact Assessment | PG&E will apply after CPCN issued	San Joaquin Valley Air Pollution Control District | Central Region Office 1990 E. Gettysburg Avenue Fresno, CA 93726-0244	Reduce construction emissions of nitrogen oxides (NOx) and particulate matter less than 10 micrometers in aerodynamic diameter (PM_{10})
Local		
Encroachment Permit (ministerial) | with Traffic Control Plan as indicated; PG&E will apply after CPCN issued	San Joaquin County/City of Lodi | San Joaquin County Public Works Department 1810 East Hazelton Avenue Stockton, CA 95205 City of Lodi Public Works Department 221 W Pine Street Lodi, CA 95240	Electrical line installation over/along/within county or city roads
Grading Permit (ministerial) | PG&E will apply after CPCN issued	San Joaquin County | San Joaquin County Community Development Department 1810 East Hazelton Avenue Stockton, CA 95205	Grading for expansion of Lockeford Substation
Building Permit (ministerial) | PG&E will apply after CPCN issued	San Joaquin County/City of Lodi | San Joaquin County Community Development Department 1810 East Hazelton Avenue Stockton, CA 95205 City of Lodi Community Development Department 221 W Pine Street Lodi, CA 95240	Construction of substations
Railroad Permit | PG&E will apply after CPCN issued	Union Pacific Railroad | Thomas Leddy Utilities/Drainage/Right of Entry San Joaquin County	Conductor crossing of railroad (three crossings)

Permit/Authorization | Status	Agency | Contact	Purpose
	(402) 544-8571 https://www.up.com/real_estate/utilities/encroach_procedure/index.htm	
Flagging Agreement | PG&E will seek agreement after CPCN issued	Central California Traction Company | 2201 W. Washington Road Suite #12 Stockton, CA. 95203 Phone: (209) 466-6927	Conductor crossing of railroad (three crossings)

After the CPCN is issued, LEU will seek permit approval from City of Lodi's Public Works Department and Community Development Department located at 221 W Pine Street. The following permits are expected to be issued by the City of Lodi for LEU's portion of the project, which includes construction at LEU Industrial and LEU Guild substations and the 12 kV feeder line modifications:

- Traffic Control Permit
- Grading Permit
- Building Permit (for control, battery and metering enclosures, and station fence)

Because the LEU portion of the project will disturb more than 1 acre of land, LEU will apply for a National Pollutant Discharge Elimination System Stormwater Construction Permit for discharges of stormwater associated with construction from the SWRCB (Regional Board: 5S / Central Valley, 11020 Sun Center Drive, #200, Rancho Cordova, CA 95670-6114). After the CPCN is issued to PG&E, LEU expects to prepare a Stormwater Management Plan as required by the City of Lodi for the operation of LEU Guild Substation.

3.10.1 Rights-of-Way or Easement Applications

Land entitlement issues are not part of this regulatory proceeding, in which the CPUC is considering whether to grant or deny PG&E's application for a permit to construct new electrical facilities. Rather, any land rights issues will be resolved in subsequent negotiations and/or condemnation proceedings in the proper jurisdiction, following the decision by the Commission on PG&E's application (for example, refer to Jefferson-Martin 230 kV Transmission Project, A.02-04-043, D.04-08-046, p. 85).

3.11 Applicant-Proposed Measures and Best Management Practices

PG&E and LEU propose to implement their respective APMs and BMPs listed in Table 3.11-1 to avoid or further minimize potential less-than-significant project impacts. The measures are discussed with their respective environmental resources in the subsection within each resource category in Chapter 5.

The proposed PG&E facilities, combined with the new LEU Guild Substation and modified Industrial Substation, constitute the Project being evaluated under CEQA. If the CPUC approves PG&E's application to construct and operate its proposed facilities, PG&E would be responsible for implementation all of the APMs and all applicable mitigation measures governing the construction, operation, and maintenance of the Project. However, the LEU facilities would not be part of PG&E's application proceeding and will not be authorized under this specific CPUC decision. Though other federal, State, and local agencies would have permit and approval authority over some aspects of the Project, the CPUC would continue to act as the lead agency for monitoring compliance with all mitigation measures required by the adopted EIR. All approvals and permits obtained by PG&E would be submitted to the CPUC prior to commencing the activity for which the permits and approvals were obtained.

Table 3.11-1. Summary Table for Applicant-Proposed Measures and Best Management Practices

Applicant-Proposed Measures and Best Management Practices
Section 5.1 Aesthetics (AES)
APM AES-1: Aesthetics Impact Reduction During PG&E Construction. All PG&E project sites will be maintained in a clean and orderly state. Construction staging areas will be sited away from the public view where possible. Where this is unavoidable, construction sites, staging areas, and fly yards will be visually screened using temporary screening fencing. Nighttime lighting will be directed away from residential areas and have shields to prevent light spillover effects. Upon completion of project construction, project staging and temporary work areas will be returned to pre-project conditions, including regrading of the site and revegetation or repaving of disturbed areas to match pre-existing contours and conditions.
BMP AES-1: Aesthetics Impact Reduction During LEU Construction. All LEU project sites will be maintained in a clean and orderly state. Construction staging areas will be sited away from the public view where possible. Where this is unavoidable, construction sites, staging areas, and fly yards will be visually screened using temporary screening fencing. Nighttime lighting will be directed away from residential areas and have shields to prevent light spillover effects. Upon completion of project construction, project staging and temporary work areas will be returned to pre-project conditions, including regrading of the site and revegetation or repaving of disturbed areas to match pre-existing contours and conditions.
APM AES-2: Use of Dulled Galvanized Finish on PG&E Tubular Steel Poles and PG&E Non-Specular Conductors. Use of a factory-dulled galvanized finish on new PG&E TSPs and PG&E non-specular (nonreflective) conductors would reduce the potential for a new source of glare and visual contrast resulting from the PG&E TSPs and conductors.
APM AES-3: PG&E Poles near Residences. To reduce potential visibility of PG&E Structure W13 as seen from the residence located within approximately 250 feet, where relatively unobstructed views of the project are seen and the new PG&E structure appears prominent, APM AES-3a and/or 3b will be implemented.
APM AES-3a: PG&E will consult with residential property owner regarding placement of PG&E Structure W13 to reduce its visibility with respect to the residential view.
APM AES-3b: PG&E will consult with residential property owner regarding PG&E's potential purchase of several trees and large shrubs for installation at key locations on residential property to provide visual screening. The selected plant material will be ecologically appropriate to the local landscape setting (in terms of water usage, horticultural and soil requirements, and so on) and will be compatible with PG&E and CPUC requirements for landscaping in proximity to power facilities. After planting, the maintenance of the plants will be the responsibility of the property owner.
Section 5.2 Agriculture and Forestry Resources (AGR)
APM AGR-1: Minimize Impacts on Active Agricultural Areas. • Prior to construction, PG&E will provide written notice to landowners outlining construction activities, preliminary schedule, and timing of restoration efforts. • PG&E will coordinate with landowners to minimize construction-related disruptions to seasonal farming operations. To the extent reasonably feasible, PG&E will schedule construction activities to minimize disruptions to harvesting, planting, and crop maintenance activities, such as fertilizer application and crop dusting. • PGE& will establish temporary overland access routes and work areas to minimize disruptions to agricultural infrastructure (including irrigation lines, wells, pumps, ditches, and drains) to the greatest extent reasonably feasible. If necessary, and upon agreement between PG&E and the landowners, agricultural infrastructure will be protected with temporary materials (for example, steel plates, blankets) to prevent inadvertent damage during construction. Where feasible, overland routes within orchards and vineyards will be aligned with the planting layout or otherwise to minimize tree and vine removal. • If trees or other crops cannot be avoided by PG&E as specified previously, impacts will be limited to the minimum necessary to construct the project, and PG&E will provide the agricultural owner with fair market compensation for crops removed, crops unable to be harvested, lost planting cycles, and any damaged infrastructure.

Applicant-Proposed Measures and Best Management Practices

- PG&E will restore agricultural land temporarily impacted by construction to pre-project conditions following completion of construction, including areas impacted by establishment of temporary staging, laydown and storage areas, overland access, guard structures, and pull sites. If grading occurs in actively planted agricultural areas, topsoil will be stockpiled and used to backfill excavations to pre-existing grade when construction is complete. Restoration of sites will involve removing any rock or material imported to stabilize the site, replacing topsoil, decompacting any soil that has been compacted by heavy equipment, and replanting agricultural crops. The responsibility of performing these various tasks may be stipulated in an agreement between PG&E and the landowner. If a landowner is better equipped or prefers to replant crops or perform other tasks themselves, then PG&E will provide just compensation for this work.

Section 5.3 Air Quality (AIR)

APM AIR-1: PG&E Dust Control During Construction.

PG&E will implement measures to control fugitive dust in compliance with the San Joaquin Valley Air Pollution Control District (SJVAPCD) standards. Dust control measures will include the following at a minimum:

- All exposed surfaces with the potential of dust-generating will be watered or covered with coarse rock to reduce the potential for airborne dust from leaving the site.
- The simultaneous occurrence of more than two ground disturbing construction phases on the same area at any one time will be limited. Activities will be phased to reduce the amount of disturbed surfaces at any one time.
- Cover all haul trucks entering/leaving the site and trim their loads as necessary.
- Use wet power vacuum street sweepers to sweep all paved access road, parking areas, staging areas, and public roads adjacent to project sites on a daily basis (at minimum) during construction. The use of dry power sweeping is prohibited.
- All trucks and equipment, including their tires, will be washed off prior to leaving project sites.
- Apply gravel or non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at project sites.
- Water and/or cover soil stockpiles daily.
- Vegetative ground cover will be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- All vehicle speeds will be limited to 15 miles per hour or less on unpaved areas.
- Implement dust monitoring in compliance with the standards of the local air district.
- Halt construction during any periods when wind speeds are in excess of 50 mph.

BMP AIR-1: LEU Dust Control During Construction

LEU will implement measures to control fugitive dust in compliance with SJVAPCD standards. Dust control measures will include the following at a minimum:

- All exposed surfaces with the potential of dust-generating will be watered or covered with coarse rock to reduce the potential for airborne dust from leaving the site.
- The simultaneous occurrence of more than two ground disturbing construction phases on the same area at any one time will be limited. Activities will be phased to reduce the amount of disturbed surfaces at any one time.
- Cover all haul trucks entering/leaving the site and trim their loads as necessary.
- Use wet power vacuum street sweepers to sweep all paved access road, parking areas, staging areas, and public roads adjacent to project sites on a daily basis (at minimum) during construction. The use of dry power sweeping is prohibited.
- All trucks and equipment, including their tires, will be washed off prior to leaving project sites.
- Apply gravel or non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at project sites.
- Water and/or cover soil stockpiles daily.

Applicant-Proposed Measures and Best Management Practices
• Vegetative ground cover will be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established. • All vehicle speeds will be limited to 15 miles per hour or less on unpaved areas. • Implement dust monitoring in compliance with the standards of the local air district. • Halt construction during any periods when wind speeds are in excess of 50 mph.
Section 5.4 Biological Resources (BIO or PG&E SJVHCP AMM)
APM BIO-1: Develop and implement a PG&E Worker Environmental Awareness Program. A PG&E biologist familiar with resources in the area and with delivering Worker Environmental Awareness Programs will conduct an environmental awareness program for all onsite construction personnel before they begin work on the project. Training will include a discussion of the avoidance and minimization measures that are being implemented to protect biological resources as well as the terms and conditions of project permits. Training will include information about the federal and state Endangered Species Acts and the consequences of noncompliance with these acts. Under this program, workers will be informed of the presence, life history, and habitat requirements of all special-status species that may be affected by the PG&E portion of the project, and about state and federal laws protecting nesting birds, wetlands, and other water resources. An educational brochure will be produced for construction crews working on the project. Color photos of special-status species will be included, as well as a discussion of relevant APMs and specific avoidance or minimization measures for special-status species and habitats.
BMP BIO-1: Develop and implement an LEU Worker Environmental Awareness Program. A biologist for the LEU portion of the project who is familiar with resources in the area and with delivering Worker Environmental Awareness Programs will conduct an environmental awareness program for all onsite construction personnel before they begin work on the project. Training will include a discussion of the avoidance and minimization measures that are being implemented to protect biological resources as well as the terms and conditions of project permits. Training will include information about the federal and state Endangered Species Acts and the consequences of noncompliance with these acts. Under this program, workers will be informed of the presence, life history, and habitat requirements of all special-status species that may be affected by the LEU portion of the project, and about state and federal laws protecting nesting birds, wetlands, and other water resources. An educational brochure will be produced for construction crews working on the project. Color photos of special-status species will be included, as well as a discussion of relevant best practices and specific avoidance or minimization measures for special-status species and habitats.

Applicant-Proposed Measures and Best Management Practices

APM BIO-2: Avoid and protect nesting birds from PG&E impact. If construction is to occur during the avian nesting season (March 1 through August 15), a preconstruction migratory bird and raptor nesting survey will be performed by a PG&E biologist who is familiar with local avian species and nesting birds. Surveys will occur only in publicly accessible areas and areas where PG&E has existing access; private property will not be accessed and will instead be observed from adjacent accessible areas.

Preconstruction nesting bird surveys will be performed in accordance with PG&E's Nesting Bird Management Plan. The preconstruction survey will cover a radius of 200 feet for nonlisted raptors and 100 feet for nonlisted passerines from project locations that will be actively worked at in the near term. Surveys for Swainson's hawk will cover a 0.25-mile radius from the project footprint. The survey will cover all affected areas where ground disturbance or vegetation clearing is required in the near term. Subsequent surveys will be conducted in advance of other project locations becoming active. If any active nests containing eggs or young are found, an appropriate nest exclusion zone will be established by the PG&E biologist in accordance with PG&E's Nesting Bird Management Plan. No heavy equipment will be operated in this exclusion zone until the biologist has determined that the nest is no longer active and the young have fledged. If it is not practicable to avoid work in an exclusion zone around an active nest, work activities will be modified to minimize disturbance of nesting birds but may proceed in these zones at the discretion of the biologist. As appropriate, the biologist will monitor work activities in these zones daily or periodically when construction is occurring and assess their effect on the nesting birds. If the biologist determines that particular activities pose a high risk of disturbing an active nest, the biologist will recommend additional, feasible measures to minimize the risk of nest disturbance. If work cannot proceed without disturbing the nesting birds, or signs of disturbance are observed by the monitor, work may need to be halted or redirected to other areas until the nesting and fledging is completed or the nest has otherwise failed for reasons not related to construction.

BMP BIO-2: Avoid and protect nesting birds from LEU impact. If construction is to occur during the avian nesting season (March 1 through August 15), a preconstruction migratory bird and raptor nesting survey will be performed by a biologist for the LEU portion of the project who is familiar with local avian species and nesting birds. Surveys will occur only in publicly accessible areas and areas where LEU has existing access; private property will not be accessed and will instead be observed from adjacent accessible areas.

The preconstruction survey will cover a radius of 200 feet for nonlisted raptors and 100 feet for nonlisted passerines from project locations that will be actively worked at in the near term. Surveys for Swainson's hawk will cover a 0.25-mile radius from the LEU project footprint. The survey will cover all affected areas where ground disturbance or vegetation clearing is required in the near term. Subsequent surveys will be conducted in advance of other project locations becoming active. If any active nests containing eggs or young are found, an appropriate nest exclusion zone will be established by the biologist. No heavy equipment will be operated in this exclusion zone until the biologist has determined that the nest is no longer active and the young have fledged. If it is not practicable to avoid work in an exclusion zone around an active nest, work activities will be modified to minimize disturbance of nesting birds but may proceed in these zones at the discretion of the biologist. As appropriate, the biologist will monitor work activities in these zones daily or periodically when construction is occurring and assess their effect on the nesting birds. If the biologist determines that particular activities pose a high risk of disturbing an active nest, the biologist will recommend additional, feasible measures to minimize the risk of nest disturbance. If work cannot proceed without disturbing the nesting birds, or signs of disturbance are observed by the monitor, work may need to be halted or redirected to other areas until the nesting and fledging is completed or the nest has otherwise failed for reasons not related to construction.

APM BIO-3: Identify and mark sensitive biological resource areas near PG&E portion of the project. Sensitive biological resources (for example, aquatic resources and nesting birds) in or adjacent to PG&E construction work areas identified during the preconstruction surveys will be clearly marked in the field and on project maps as appropriate. Such areas will be avoided during construction to the greatest extent feasible.

BMP BIO-3: Identify and mark sensitive biological resource areas near LEU portion of the project. Sensitive biological resources (for example, nesting birds) in or adjacent to LEU construction work areas identified during the preconstruction surveys will be clearly marked in the field and on project maps as appropriate. Such areas will be avoided during construction to the greatest extent feasible.

Applicant-Proposed Measures and Best Management Practices
APM BIO-4: Install exclusion fencing near PG&E portion of the project. At the discretion of the PG&E biologist, prior to any ground-disturbing work in proximity to suitable habitat for special-status species or adjacent to wetlands or waters, exclusion fence will be installed around PG&E workspaces as appropriate. Exclusion fencing will be routinely inspected during project activities and any damage, such as holes or gaps, will be promptly repaired.
BMP BIO-4: Install exclusion fencing near LEU portion of the project. At the discretion of the LEU biologist, prior to any ground-disturbing work in proximity to suitable habitat for special-status species, exclusion fence will be installed around LEU workspaces as appropriate. Exclusion fencing will be routinely inspected during project activities and any damage, such as holes or gaps, will be promptly repaired.
APM BIO-5: Allow biological monitor onsite during PG&E construction activities in sensitive biological resource areas. At the discretion of the PG&E biologist, a qualified biologist will be onsite during construction activities in sensitive biological resource areas identified in APM BIO-4 unless the area has been protected by barrier fencing to protect sensitive biological resources and previously cleared by the qualified biologist and the PG&E biologist. The qualified biologist will ensure implementation and compliance with all avoidance and mitigation measures and have the authority to stop or redirect work if construction activities are likely to affect sensitive biological resources.
BMP BIO-5: Allow biological monitor onsite during LEU construction activities in sensitive biological resource areas. At the discretion of the biologist for the LEU portion of project, a qualified biologist will be onsite during construction activities in sensitive biological resource areas identified in BMP BIO-4 unless the area has been protected by barrier fencing to protect sensitive biological resources and previously cleared by the qualified biologist and the biologist for the LEU portion of project. The qualified biologist will ensure implementation and compliance with all avoidance and mitigation measures and have the authority to stop or redirect work if construction activities are likely to affect sensitive biological resources.
APM BIO-6: Avoid and protect special-status amphibians from PG&E impact. During wet weather or the rainy season, all open holes, pits, and trenches at PG&E work areas will be protected to ensure that wildlife does not become entrapped. Protective fencing, coverings, or ramps will be installed to either prevent wildlife from falling into excavations or to allow for escape if they do. At the end of each workday, steep-walled holes or trenches more than approximately 6 inches deep will be covered or provided with one or more escape ramps and/or fenced. Open excavations will be inspected, prior to the start of construction activities, to ensure that no wildlife is trapped. Construction personnel also will check underneath vehicles and within materials to be moved (that is, tires, tracks, pipes) for the presence of frogs when parked or placed near suitable aquatic or upland dispersal habitat.
APM BIO-7: Implement general protection measures for wetlands and other waters near PG&E portion of the project. PG&E will implement the following general measures to minimize or avoid impacts on wetlands and other waters: • Avoid wetlands and other waters during construction activities. • Do not refuel vehicles within approximately 100 feet of a wetland, stream, or other waterway unless a bermed and lined refueling area is constructed. • Implement an SWPPP to minimize construction-related erosion and sediments from entering nearby waterways (refer to APM HYD-1).

Applicant-Proposed Measures and Best Management Practices

APM BIO-8: Implement general resource protection measures for PG&E portion of the project. This APM consists of the following components:

- *Hazardous materials spills.* Emergency spill response and cleanup kits will be readily available for immediate containment and cleanup of an accidental spill. Construction crews will be trained in safe handling of hazardous materials and cleanup responsibilities. Any inadvertent spills into aquatic habitat will be reported to the applicable resource agencies within 24 hours.
- *Reporting and communication.* The PG&E biologist will be responsible for immediately reporting any capture and relocation, or inadvertent harm, entrapment, or death, of a federally or state-listed species under the federal Endangered Species Act (ESA) or the California Endangered Species Act (CESA) to the applicable resource agencies.
- *Restoring temporarily disturbed habitats.* All habitat areas for special-status species that are temporarily disturbed as a result of project activities will be restored upon completion of construction. Disturbed areas will be restored and revegetated in coordination with landowners. Many areas are actively cultivated or grazed and landowners may request replanting of similar crops or plant species as existed previously. These may not necessarily be native plant species. For PG&E-owned parcels, revegetation would be accomplished through application of a habitat-appropriate native seed mix. Restoration is anticipated to be completed within approximately 6 to 9 months after the project, depending on landowner requests and the season in which disturbance activities and subsequent restoration activities will take place.
- *Erosion control materials.* Only tightly woven netting or similar material will be used for all geosynthetic erosion control materials such as coir rolls and geotextiles. No plastic monofilament matting will be used. Sod may be used when restoring landscaped areas.
- *Minimizing grading and vegetation removal along access roads and construction work areas.* PG&E will only trim, clear, or remove vegetation as necessary to establish the access routes and allow equipment use. Trees will be directionally felled away from sensitive biological resource areas and, if that is not possible, they will be removed in sections. Damage to adjacent trees will be avoided to the greatest extent possible.
- *Weed management.* Vehicles and construction equipment will be cleaned of mud and dirt as needed to minimize transport of weed plant parts or seed. Vehicles also will be cleaned at the completion of the project or when off-road use for that vehicle has been completed.

BMP BIO-8: Implement general resource protection measures for LEU portion of the project. This BMP consists of the following components:

- *Hazardous materials spills.* Emergency spill response and cleanup kits will be readily available for immediate containment and cleanup of an accidental spill. Construction crews will be trained in safe handling of hazardous materials and cleanup responsibilities. Any inadvertent spills into aquatic habitat will be reported to the applicable resource agencies within 24 hours.
- *Reporting and communication.* The LEU biologist will be responsible for immediately reporting any capture and relocation, or inadvertent harm, entrapment, or death, of a federally or state-listed species under ESA or CESA to the applicable resource agencies.
- *Erosion control materials.* Only tightly woven netting or similar material will be used for all geosynthetic erosion control materials such as coir rolls and geotextiles. No plastic monofilament matting will be used.
- *Minimizing grading and vegetation removal along access roads and construction work areas.* LEU will only trim, clear, or remove vegetation as necessary to establish the access routes and allow equipment use. Trees will be directionally felled away from sensitive biological resource areas and, if that is not possible, they will be removed in sections. Damage to adjacent trees will be avoided to the greatest extent possible.
- *Weed management.* Vehicles and construction equipment will be cleaned of mud and dirt as needed to minimize transport of weed plant parts or seed. Vehicles also will be cleaned at the completion of the project or when off-road use for that vehicle has been completed.

Applicant-Proposed Measures and Best Management Practices
APM BIO-9: Implement general resource protection measures for PG&E portion of the project. PG&E conductors and ground wires would be spaced sufficiently apart, as feasible, so that raptors cannot contact two conductors or one conductor and a ground wire, causing electrocution (APLIC 2006).
BMP BIO-9: Implement general resource protection measures for LEU portion of the project. LEU conductors and ground wires would be spaced sufficiently apart, as feasible, so that raptors cannot contact two conductors or one conductor and a ground wire, causing electrocution (APLIC 2006).
APM BIO-10: Protect birds on PG&E power lines. All PG&E transmission and power lines and PG&E switching station and substation facilities for the project will be designed to be avian-safe as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012).
BMP BIO-10: Protect birds on LEU power lines. All LEU transmission and power lines and LEU substation facilities for the project will be designed to be avian-safe as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012).
PG&E SJVHCP AMM-1: Employees and contractors performing O&M activities will receive ongoing environmental education. Training will include review of environmental laws and guidelines that must be followed by all personnel to reduce or avoid effects on covered species during O&M activities.
PG&E SJVHCP AMM-2: Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas to the extent practicable.
PG&E SJVHCP AMM-3: The development of new access and ROW roads by PG&E will be minimized and clearing vegetation and blading for temporary vehicle access will be avoided to the extent practicable.
PG&E SJVHCP AMM-4: Vehicles will not exceed a speed limit of 15 mph in the ROWs or on unpaved roads within sensitive land-cover types.
PG&E SJVHCP AMM-5: Trash dumping, firearms, open fires (such as barbecues) not required by the O&M activity, hunting, and pets (except for safety in remote locations) will be prohibited in O&M work activity sites.
PG&E SJVHCP AMM-6: No vehicles will be refueled within 100 feet of a wetland, stream, or other waterway unless a bermed and lined refueling area is constructed.
PG&E SJVHCP AMM-7: During any reconstruction of existing overhead electric facilities in areas with a high risk of wildlife electrocution (e.g., nut/fruit orchards, riparian corridors, areas along canal or creek banks, PG&E's raptor concentration zone), PG&E will use insulated jumper wires and bird/animal guards for equipment insulator bushings or will construct lines to conform to the latest revision of PG&E's Bird and Wildlife Protection Standards.
PG&E SJVHCP AMM-8: During fire season in designated State Responsibility Areas, all motorized equipment will have federal or state approved spark arrestors; a backpack pump filled with water and a shovel will be carried on all vehicles; and fire-resistant mats and/or windscreens will be used when welding. In addition, during fire "red flag" conditions as determined by California Department of Forestry (CDF), welding will be curtailed, each fuel truck will carry a large fire extinguisher with a minimum rating of 40 B:C, and all equipment parking and storage areas will be cleared of all flammable materials.
PG&E SJVHCP AMM-9: Erosion control measures will be implemented where necessary to reduce erosion and sedimentation in wetlands, waters of the United States, and waters of the state, and habitat occupied by covered animal and plant species when O&M activities are the source of potential erosion problems.
PG&E SJVHCP AMM-10: If an activity disturbs more than 0.25 acre in a grassland, and the landowner approves or it is within PG&E rights and standard practices, the area should be returned to pre-existing conditions and broadcast-seeded using a commercial seed mix. Seed mixtures/straw used for erosion control on projects of all sizes within grasslands will be certified weed-free. PG&E shall not broadcast-seed (or apply in other manner) any commercial seed or seed-mix to disturbance sites within other natural land-cover types, within any vernal pool community, or within occupied habitat for any plant covered species.

Applicant-Proposed Measures and Best Management Practices
PG&E SJVHCP AMM-11: When routine O&M activities are conducted in an area of potential VELB habitat, a qualified individual will survey for the presence of elderberry plants within a minimum of 20 feet from the work site. If elderberry plants have one or more stems measuring 1 inch or more in diameter at ground level, the qualified individual will flag those areas to avoid or minimize potential impacts on elderberry plants. If impacts (pruning/trimming, removal, ground disturbance, or damage) are unavoidable or occur, then additional measures identified in the VELB conservation plan and compliance brochure will be implemented. The VELB compliance brochure must be carried in all vehicles performing O&M activities within the potential range of VELB.
Section 5.5 Cultural Resources (CUL)
APM CUL-1: Develop and Implement Worker Environmental Awareness Program Prior to Construction. PG&E will design and implement a worker environmental awareness program that will be provided to all project personnel involved in earth-moving activities. This training will be administered by a qualified cultural resource professional either as a stand-alone training or as part of the overall environmental awareness training required by the project, and may be recorded for use in subsequent training sessions. No construction worker will be involved in field operations without having participated in the worker environmental awareness program, which will include, at a minimum: • A review of archaeology, history, precontact, and Native American cultures associated with historical resources in the project vicinity • A review of applicable local, state, and federal ordinances, laws, and regulations pertaining to historic preservation • A discussion of procedures to be followed in the event that unanticipated cultural resources are discovered during implementation of the project • A discussion of disciplinary and other actions that could be taken against persons violating historic preservation laws and PG&E policies • A statement by the construction company or applicable employer agreeing to abide by the Worker Education Program, PG&E policies, and other applicable laws and regulations
BMP CUL-1: Develop and Implement Worker Environmental Awareness Program Prior to Construction. LEU will design and implement a worker environmental awareness program that will be provided to all project personnel involved in earth-moving activities. This training will be administered by a qualified cultural resource professional either as a stand-alone training or as part of the overall environmental awareness training required by the project, and may be recorded for use in subsequent training sessions. No construction worker will be involved in field operations without having participated in the worker environmental awareness program, which will include, at a minimum: • A review of archaeology, history, precontact, and Native American cultures associated with historical resources in the project vicinity • A review of applicable local, state, and federal ordinances, laws, and regulations pertaining to historic preservation • A discussion of procedures to be followed in the event that unanticipated cultural resources are discovered during implementation of the project • A discussion of disciplinary and other actions that could be taken against persons violating historic preservation laws and PG&E policies • A statement by the construction company or applicable employer agreeing to abide by the Worker Education Program, PG&E policies, and other applicable laws and regulations
APM CUL-2: Archaeological Construction Monitoring in High-Sensitivity Areas. In high-sensitivity areas where survey did not identify archaeological resources (PG&E structures W12, W13 and W14), once per day during ground-disturbing activities a qualified archaeological monitor will observe the ground-disturbing activities and have the authority to halt ground-disturbing work temporarily within 100 feet of a find when safe to do so to assess the find. The assessment, and any subsequent evaluation, will follow the processes described in APM CUL-3. Monitoring at these locations can be reduced if, after initial monitoring, the qualified archaeological monitor has determined there is a low likelihood of identifying cultural resources.

Applicant-Proposed Measures and Best Management Practices

APM CUL-3: Inadvertent Cultural Resource Discoveries. While the pedestrian survey had good ground visibility and did not identify any new cultural resources, it is not uncommon to have unanticipated cultural discoveries during construction. The precontact buried site sensitivity analysis identified a high potential for buried resources near SR 88 and Bear Creek. Additionally, the area has historically been occupied and used for agricultural purposes since the late 1900s. For these reasons, precontact and historic-era inadvertent discoveries are possible during construction. If such discoveries take place, the following procedures will be initiated:

- All ground-disturbing construction activities within 100 feet of the discovery will halt immediately.
- The construction crew will protect the discovery from further disturbance until it has been assessed by a qualified archaeologist.
- The construction supervisor will immediately contact the project construction inspector and the PG&E cultural resource specialist.
- The PG&E cultural resources specialist will coordinate with the state lead officials, as appropriate. If the discovery can be avoided or protected and no further impacts will occur, then the resource will be documented on DPR 523 forms, and no further effort will be required. If the resource cannot be avoided and may be subjected to further impacts, qualified personnel will evaluate the significance of the discovery in accordance with the state laws outlined previously; personnel will implement data recovery or other appropriate treatment measures, if warranted. A qualified historical archaeologist will complete an evaluation of historic-period resources, while evaluation of precontact resources will be completed by a qualified archaeologist specializing in California prehistoric archaeology. Evaluations may include archival research, oral interviews, and/or field excavations to determine the full depth, extent, nature, and integrity of the deposit.

BMP CUL-3: Inadvertent Cultural Resource Discoveries. While the pedestrian survey had good ground visibility and did not identify any new cultural resources, it is not uncommon to have unanticipated cultural discoveries during construction. The precontact buried site sensitivity analysis identified a low potential for buried resources in the LEU portion of the project. Additionally, the area has historically been occupied and used for agricultural purposes since the late 1900s. For these reasons, precontact and historic-era inadvertent discoveries are possible during construction. If such discoveries take place, the following procedures will be initiated:

- All ground-disturbing construction activities within 100 feet of the discovery will halt immediately.
- The construction crew will protect the discovery from further disturbance until it has been assessed by a qualified archaeologist.
- The construction supervisor will immediately contact the project construction inspector and the LEU cultural resource specialist.
- The LEU cultural resource lead will coordinate with the state lead officials, as appropriate. If the discovery can be avoided or protected and no further impacts will occur, then the resource will be documented on DPR 523 forms, and no further effort will be required. If the resource cannot be avoided and may be subjected to further impacts, qualified personnel will evaluate the significance of the discovery in accordance with the state laws outlined previously; personnel will implement data recovery or other appropriate treatment measures, if warranted. A qualified historical archaeologist will complete an evaluation of historic-period resources, while evaluation of precontact resources will be completed by a qualified archaeologist specializing in California prehistoric archaeology. Evaluations may include archival research, oral interviews, and/or field excavations to determine the full depth, extent, nature, and integrity of the deposit.

Applicant-Proposed Measures and Best Management Practices
APM CUL-4: Unanticipated Discovery of Human Remains. If human remains or suspected human remains are discovered during PG&E construction, work within 100 feet of the find will stop immediately and the construction supervisor will contact the PG&E cultural resources specialist, who meets the Secretary of Interior's Standards for archaeology. Upon discovery, the Coroner Division of the San Joaquin County Sheriff's Office will be contacted for identification of human remains. The Coroner has 2 working days to examine the remains after being notified. If the remains are Native American, the Coroner must notify the Native American Heritage Commission (NAHC) of the discovery within 24 hours. The NAHC then will identify and contact a Most Likely Descendant (MLD). The MLD may make recommendations to the landowner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. When proper consultation has occurred, a procedure that may include the preservation, excavation, analysis, and curation of artifacts and/or reburial of those remains and associated artifacts will be formulated and implemented. If the remains are not Native American, the Coroner will consult with the archaeological research team and the lead agency to develop a procedure for the proper study, documentation, and ultimate disposition of the remains. If a determination can be made as to the likely identity—either as an individual or as a member of a group—of the remains, an attempt should be made to identify and contact any living descendants or representatives of the descendant community. As interested parties, these descendants may make recommendations to the owner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. Final disposition of any human remains or associated funerary objects will be determined in consultation between the landowner and the MLD.
BMP CUL-4: Unanticipated Discovery of Human Remains. If human remains or suspected human remains are discovered during LEU construction, work within 100 feet of the find will stop immediately and the construction supervisor will contact the LEU cultural resources specialist, who meets the Secretary of Interior's Standards for archaeology. Upon discovery, the Coroner Division of the San Joaquin County Sheriff's Office will be contacted for identification of human remains. The Coroner has 2 working days to examine the remains after being notified. If the remains are Native American, the Coroner must notify the NAHC of the discovery within 24 hours. The NAHC then will identify and contact an MLD. The MLD may make recommendations to the landowner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. When proper consultation has occurred, a procedure that may include the preservation, excavation, analysis, and curation of artifacts and/or reburial of those remains and associated artifacts will be formulated and implemented. If the remains are not Native American, the Coroner will consult with the archaeological research team and the lead agency to develop a procedure for the proper study, documentation, and ultimate disposition of the remains. If a determination can be made as to the likely identity—either as an individual or as a member of a group—of the remains, an attempt should be made to identify and contact any living descendants or representatives of the descendant community. As interested parties, these descendants may make recommendations to the owner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. Final disposition of any human remains or associated funerary objects will be determined in consultation between the landowner and the MLD.
Section 5.6 Energy
Refer to Section 5.8 Greenhouse Gas Emissions APMs and BMPs.

Applicant-Proposed Measures and Best Management Practices

Section 5.7 Geology, Soils, and Paleontological Resources (GEO, PAL)

APM GEO-1: Appropriate PG&E Design Measures Implementation. Based in the graded and excavated areas as project construction proceeds. Potentially problematic subsurface conditions may include soft or loose soils. Where soft or loose soils are encountered during design studies or construction on PG&E facilities, appropriate measures will be implemented to avoid, accommodate, replace, or improve soft or loose soils encountered during construction. Such measures may include the following:

- Locating construction facilities and operation away from areas of soft and loose soil.
- Overexcavating soft or loose soils and replacing them with nonexpansive engineered fill.
- Increasing the density and strength of soft or loose soils through mechanical vibration and compaction.
- Treating soft or loose soils in place with binding or cementing agents.
- Construction activities in areas where soft or loose soils are encountered may be scheduled for the dry season, as necessary, to allow safe and reliable equipment access.

BMP GEO-1: Appropriate LEU Design Measures Implementation. Based on available references, sands and loamy sands are the primary soil types expected to be encountered in the graded and excavated areas as project construction proceeds. Potentially problematic subsurface conditions may include soft or loose soils. Where soft or loose soils are encountered during design studies or construction on LEU facilities, appropriate measures will be implemented to avoid, accommodate, replace, or improve soft or loose soils encountered during construction. Such measures may include the following:

- Locating construction facilities and operation away from areas of soft and loose soil.
- Overexcavating soft or loose soils and replacing them with nonexpansive engineered fill.
- Increasing the density and strength of soft or loose soils through mechanical vibration and compaction.
- Treating soft or loose soils in place with binding or cementing agents.
- Construction activities in areas where soft or loose soils are encountered may be scheduled for the dry season, as necessary, to allow safe and reliable equipment access.

APM PAL–1: Retain a PG&E Qualified Paleontological Principal Investigator. A PG&E Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all APMs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.

BMP PAL–1: Retain an LEU Qualified Paleontological Principal Investigator. An LEU Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all BMPs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.

APM PAL–2: PG&E Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all PG&E work locations. It may be provided by the PG&E project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved
- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

Applicant-Proposed Measures and Best Management Practices

BMP PAL–2: LEU Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all LEU work locations. It may be provided by the LEU project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved
- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

APM PAL-3: Paleontological Resource Monitoring for Select PG&E Construction Activities. A paleontological monitor will be present to monitor for paleontological resources in areas where Riverbank formation or Turlock Lake formation occurs at the surface and excavation is greater than 3 feet deep and, for excavations involving drilling or augering, uses a drill diameter that is larger than 3 feet. The paleontological monitor will be able to: (1) recognize fossils and paleontological deposits, and deposits that may be paleontologically sensitive; (2) take accurate and detailed field notes, photographs, and locality coordinates; and (3) document project-related ground-disturbing activities, their locations, and other relevant information, including a photographic record.

BMP PAL-3: Paleontological Resource Monitoring for Select LEU Construction Activities. A paleontological monitor will be present to monitor for paleontological resources in areas where Riverbank formation occurs at the surface and excavation is greater than 3 feet deep and, for excavations involving drilling or augering, uses a drill diameter that is larger than 3 feet. The paleontological monitor will be able to: (1) recognize fossils and paleontological deposits, and deposits that may be paleontologically sensitive; (2) take accurate and detailed field notes, photographs, and locality coordinates; and (3) document project-related ground-disturbing activities, their locations, and other relevant information, including a photographic record.

APM PAL–4: PG&E Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during PG&E's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and PG&E Cultural Resources Specialist (CRS) immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for a PG&E Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, PG&E will implement measures to protect and document the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and PG&E CRS.
- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing, or increasing, the amount of monitoring required.

Applicant-Proposed Measures and Best Management Practices

BMP PAL–4: LEU Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during LEU's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and LEU Cultural Resource Lead immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for an LEU Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, LEU will implement measures to protect and document the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and LEU Cultural Resource Lead.
- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing, or increasing, the amount of monitoring required.

Section 5.8 Greenhouse Gas Emissions (GHG)

APM GHG-1: PG&E Minimize GHG Emissions. PG&E will implement the following to minimize GHG emissions:

- Minimize unnecessary construction vehicle idling time. The ability to limit construction vehicle idling time will depend on the sequence of construction activities and when and where vehicles are needed or staged. Certain vehicles, such as large diesel-powered vehicles, have extended warm-up times following start-up that limit their availability for use following start-up. Where such diesel-powered vehicles are required for repetitive construction tasks, these vehicles may require more idling time. The project will apply a "common sense" approach to vehicle use, so that idling is reduced as far as possible below the maximum of 5 consecutive minutes allowed by California law; if a vehicle is not required for use immediately or continuously for construction activities, its engine will be shut off. Construction supervisors will include briefings to crews on vehicle use as part of pre-construction conferences. Those briefings will include discussion of a "common sense" approach to vehicle use.
- Maintain construction equipment in proper working conditions in accordance with manufacture specifications.
- Minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible. Portable diesel fueled construction equipment with engines 50 horsepower or larger and manufactured in 2000 or later will be registered under the California Air Resources Board (CARB) Statewide Portable Equipment Registration Program.
- Minimize welding and cutting by using compression of mechanical applications where practical and within standards.
- Encourage use of natural gas-powered vehicles for passenger cars and light-duty trucks where feasible and available.
- On road and off-road vehicle tire pressures will be maintained to manufacturer specifications. Tires will be checked and re-inflated at regular intervals.
- Use line power instead of diesel generators at construction sites where line power is available.
- If suitable park-and-ride facilities are available in the project vicinity, construction workers will be encouraged to carpool to the job site.
- Encourage the recycling of construction waste where feasible.

Applicant-Proposed Measures and Best Management Practices

BMP GHG-1: LEU Minimize GHG Emissions. LEU will implement the following to minimize GHG emissions:

- Minimize unnecessary construction vehicle idling time. The ability to limit construction vehicle idling time will depend on the sequence of construction activities and when and where vehicles are needed or staged. Certain vehicles, such as large diesel-powered vehicles, have extended warm-up times following start-up that limit their availability for use following start-up. Where such diesel-powered vehicles are required for repetitive construction tasks, these vehicles may require more idling time. The project will apply a "common sense" approach to vehicle use, so that idling is reduced as far as possible below the maximum of 5 consecutive minutes allowed by California law; if a vehicle is not required for use immediately or continuously for construction activities, its engine will be shut off. Construction supervisors will include briefings to crews on vehicle use as part of pre-construction conferences. Those briefings will include discussion of a "common sense" approach to vehicle use.
- Maintain construction equipment in proper working conditions in accordance with manufacture specifications.
- Minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible. Portable diesel fueled construction equipment with engines 50 horsepower or larger and manufactured in 2000 or later will be registered under the CARB Statewide Portable Equipment Registration Program.
- Minimize welding and cutting by using compression of mechanical applications where practical and within standards.
- Encourage use of natural gas-powered vehicles for passenger cars and light-duty trucks where feasible and available.
- On road and off-road vehicle tire pressures will be maintained to manufacturer specifications. Tires will be checked and re-inflated at regular intervals.
- Use line power instead of diesel generators at construction sites where line power is available.
- If suitable park-and-ride facilities are available in the project vicinity, construction workers will be encouraged to carpool to the job site.
- Encourage the recycling of construction waste where feasible.

APM GHG-2: PG&E Minimize SF_6 Emissions. PG&E will employ standard best practices—such as minimizing vehicle trips and keeping vehicles and equipment well maintained—during PG&E operations, and will comply with CARB Early Action Measures (CARB 2011c) as these policies become effective.

- Incorporate PG&E Thurman Switching Station and PG&E Lockeford Substation's modification into PG&E's systemwide SF_6 emission reduction program. CARB has adopted the *Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear*, Sections 95350 to 95359, Title 17, CCR, which requires that companywide SF_6 emission rate not exceed 1% by 2020. Since 1998, PG&E has implemented a programmatic plan to inventory, track, and recycle SF_6 inputs, and inventory and monitor systemwide SF_6 leakage rates to facilitate timely replacement of leaking breakers. PG&E has improved its leak detection procedures and increased awareness of SF_6 issues within the company. X-ray technology is now used to inspect internal circuit breaker components to eliminate dismantling of breakers, reducing SF_6 handling and accidental releases. As an active member of EPA's SF_6 Emission Reduction Partnership for Electrical Power Systems, PG&E has focused on reducing SF_6 emissions from its transmission and distribution operations and has reduced the SF_6 leak rate by 89% and absolute SF_6 emissions by 83%.
- Require that the breakers at PG&E Thurman Switching Station and PG&E Lockeford Substation have a manufacturer's guaranteed maximum leakage rate of 0.5% per year or less for SF_6.
- Maintain substation breakers in accordance with PG&E's maintenance standards.
- Comply with California Air Resources Board Early Action Measures as these policies become effective.

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BMP GHG-2: LEU Minimize SF_6 Emissions. LEU will employ standard best practices—such as minimizing vehicle trips and keeping vehicles and equipment well maintained—during LEU operations, and will comply with CARB Early Action Measures (CARB 2011c) as these policies become effective.

- LEU has specified vacuum breakers for one additional 60 kV breaker and five 12 kV distribution feeder breakers all of which are currently oil filled. Additionally, as part of a 10-year capital improvement plan, LEU has a plan to replace fourteen 60 kV SF_6 insulated breakers from LEU Industrial Substation by the end of year 2024.
- Incorporate LEU Guild substation into LEU's systemwide SF_6 emission reduction program. CARB has adopted the Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear sections 95350 to 95359, Title 17, CCR, which requires that companywide SF_6 emission rate not exceed 1% by 2020.
- Require that the breakers at LEU Guild Substation have a manufacturer's guaranteed maximum leakage rate of 0.5% per year or less for SF_6.
- Maintain substation breakers in accordance with LEU's maintenance standards.
- Comply with California Air Resources Board Early Action Measures as these policies become effective.

Section 5.9 Hazards, Hazardous Materials, and Public Safety (HAZ)

APM HAZ-1: PG&E Development and Implementation of Hazardous Material and Emergency Response Procedures. PG&E will implement construction controls, training, and communication to minimize the potential exposure of the public and site workers to potential hazardous materials during all phases of project construction and, as appropriate, during the O&M phase. Construction procedures that will be implemented include worker training appropriate to the worker's role, and containment and spill control practices in accordance with the SWPPP (APM HYD-1). If required, a site-specific SPCC Plan and a Hazardous Materials Business Plan (HMBP) will be developed before the operation of the expanded PG&E Lockeford Substation and new PG&E Thurman Switching Station (APM HYD-4).

BMP HAZ-1: LEU Development and Implementation of Hazardous Material and Emergency Response Procedures. LEU will implement construction controls, training, and communication to minimize the potential exposure of the public and site workers to potential hazardous materials during all phases of project construction and, as appropriate, during the O&M phase. Construction procedures that will be implemented include worker training appropriate to the worker's role, and containment and spill control practices in accordance with the SWPPP (BMP HYD-1). A site-specific SPCC Plan and an HMBP will be developed before the operation of the new LEU Guild Substation (BMP HYD-4).

APM HAZ-2: PG&E Emergency Spill Supplies and Equipment. Materials will be available on the project site during construction to contain, collect, and dispose of any minor spill at PG&E's project components. Oil-absorbent material, tarps, and storage drums will be available on the project site during construction and will be used to contain and control any minor releases of oil. If excess water and liquid concrete escape during pouring, they will be directed to adjacent lined and bermed areas, where the concrete will dry and then be transported for disposal per applicable regulations.

BMP HAZ-2: LEU Emergency Spill Supplies and Equipment. Materials will be available on the project site during construction to contain, collect, and dispose of any minor spill at LEU's project components. Oil-absorbent material, tarps, and storage drums will be available on the project site during construction and will be used to contain and control any minor releases of oil. If excess water and liquid concrete escape during pouring, they will be directed to adjacent lined and bermed areas, where the concrete will dry and then be transported for disposal per applicable regulations.

APM HAZ-3: PG&E Shock Hazard Safety Measures. All authorized personnel working on site, during either construction or O&M, will be trained according to PG&E standards. To minimize potential exposure of the public to electric shock hazards, a 9-foot-tall chain-link fence topped with 1 foot of barbed wire (total height of approximately 10 feet) will be installed around the perimeter of the expanded PG&E Lockeford Substation and the new PG&E Thurman Switching Station before the new electric equipment is energized.

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BMP HAZ-3: LEU Shock Hazard Safety Measures. All authorized personnel working on site, during either construction or O&M, will be trained according to LEU standards. To minimize potential exposure of the public to electric shock hazards, an 8-foot-tall chain-link fence topped with 1 to 2 feet of barbed wire (up to approximately 10 feet in height) will be installed around the perimeter of the new LEU Guild Substation before the new electric equipment is energized.
APM HAZ-4: PG&E Worker Environmental Awareness Training Program. A PG&E worker environmental awareness training program (WEAP) will be developed and implemented prior to construction. The WEAP program will be established to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program will emphasize site-specific physical conditions to improve hazard prevention and will include a review of the SWPPP, which also will address spill response and proper best practices implementation. The PG&E WEAP program will be provided separately to CPUC staff prior to construction. If it is necessary to store chemicals, they will be managed in accordance with all applicable regulations. SDSs will be maintained and kept available onsite, as applicable.
BMP HAZ-4: LEU Worker Environmental Awareness Training Program. An LEU WEAP will be developed and implemented prior to construction. The WEAP program will be established to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program will emphasize site-specific physical conditions to improve hazard prevention and will include a review of the SWPPP, which also will address spill response and proper best practices implementation. If it is necessary to store chemicals, they will be managed in accordance with all applicable regulations. SDSs will be maintained and kept available onsite, as applicable.
APM HAZ-5: PG&E Potentially Contaminated Soil. Soil occurring at PG&E project components that is suspected of being contaminated (based on existing analytical data or visual, olfactory, or other evidence) and is removed during excavation activities will be segregated and tested; if the soil is contaminated above hazardous levels, it will be contained and disposed of offsite at a licensed waste facility. The presence of known or suspected contaminated soil will require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations.
BMP HAZ-5: LEU Potentially Contaminated Soil. Soil occurring at LEU project components that is suspected of being contaminated (based on existing analytical data or visual, olfactory, or other evidence) and is removed during excavation activities will be segregated and tested; if the soil is contaminated above hazardous levels, it will be contained and disposed of offsite at a licensed waste facility. The presence of known or suspected contaminated soil will require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations
Section 5.10 Hydrology and Water Quality (HYD)
APM HYD-1: Prepare and Implement an SWPPP for PG&E Project Components. Stormwater discharges associated with project construction activities are regulated under the Construction General Permit (CGP). Cases in which construction will disturb more than 1 acre of soil require submittal of a Notice of Intent, development of an SWPPP (both certified by the Legally Responsible Person), periodic monitoring and inspections, retention of monitoring records, reporting of incidences of noncompliance, and submittal of annual compliance reports. PG&E will comply with all CGP requirements for construction of PG&E project components. Following project approval, PG&E will prepare and implement a SWPPP, which will address erosion and sediment control concerns to minimize construction impacts on surface water quality, as well as reduce the potential for stormwater runoff to impact adjacent properties. The SWPPP will be designed specifically for the hydrologic setting of the proposed project (surface topography, storm drain configuration, and other factors) at PG&E project components. Implementation of the SWPPP will help stabilize graded areas and reduce erosion and sedimentation. The SWPPP will propose best practices that will be implemented during construction activities. Erosion and sediment control measures – such as straw wattles, erosion control blankets, and silt fences – will be installed in compliance with the SWPPP. Suitable soil stabilization measures will be used to protect exposed areas during construction activities, as specified in the SWPPP. During construction activities, measures will be implemented to reduce exposure of construction materials and wastes to stormwater. Measures will be installed following manufacturer's specifications and according to standard industry practice. Erosion and sediment control measures may include the following: • Straw wattle, silt fence, or gravel bag berms

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• Trackout control at all entrances and exits • Stockpile management • Effective dust control measures • Good housekeeping measures • Stabilization measures, which may include wood mulch, gravel, and/or seeding Identified erosion and sediment control measures will be installed prior to the start of construction activities and will be inspected and improved as required by the CGP Temporary sediment control measures intended to minimize sediment transport from temporarily disturbed areas such as silt fences or wattles will remain in place until disturbed areas are stabilized. In areas where soil is to be temporarily stockpiled, soil will be placed in a controlled area and will be managed using industry-standard stockpile management techniques. Where construction activities occur near a surface waterbody or drainage channel, the staging of construction materials and equipment and excavation spoil stockpiles will be placed and managed in a manner to minimize the risk of sediment transport to the drainage. Any surplus soil will be transported from the site and disposed of in accordance with federal, state, and local regulations. The SWPPP will identify areas where refueling and vehicle-maintenance activities and storage of hazardous materials will be permitted, if necessary. A copy of the SWPPP will be provided to CPUC for recordkeeping. The plan will be maintained and updated during construction as required by the CGP.
BMP HYD-1: Prepare and Implement an SWPPP for LEU Project Components. Stormwater discharges associated with project construction activities are regulated under the CGP. Cases in which construction will disturb 1 acre or greater of soil require submittal of a Notice of Intent, development of an SWPPP (both certified by the Legally Responsible Person), periodic monitoring and inspections, retention of monitoring records, reporting of incidences of noncompliance, and submittal of annual compliance reports. LEU will comply with all CGP requirements for construction of LEU project components. Following project approval, LEU will prepare and implement a SWPPP, which will address erosion and sediment control concerns to minimize construction impacts on surface water quality, as well as reduce the potential for stormwater to impact adjacent properties. The SWPPP will be designed specifically for the hydrologic setting of the proposed project (surface topography, storm drain configuration, and other factors) at LEU project components. Implementation of the SWPPP will help stabilize graded areas and reduce erosion and sedimentation. The SWPPP will propose best practices that will be implemented during construction activities. Erosion and sediment control measures – such as straw wattles, erosion control blankets, and silt fences – will be installed in compliance with the CGP. Suitable soil stabilization measures will be used to protect exposed areas during construction activities, as specified in the SWPPP. During construction activities, measures will be implemented to reduce exposure of construction materials and wastes to stormwater. Measures will be installed following manufacturer's specifications and according to standard industry practice. Erosion and sediment control measures may include the following: • Straw wattle, silt fence, or gravel bag berms • Trackout control at all entrances and exits • Stockpile management • Effective dust control measures • Good housekeeping measures • Stabilization measures, which may include wood mulch, gravel, and/or seeding Identified erosion and sediment control measures will be installed prior to the start of construction activities and will be inspected and improved as required by the CGP. Temporary sediment control measures intended to minimize sediment transport from temporarily disturbed areas such as silt fences or wattles will remain in place until disturbed areas are stabilized. In areas where soil is to be temporarily stockpiled, soil will be placed in a controlled area and will be managed using industry-standard stockpile management techniques. Where construction activities occur near a surface waterbody or drainage channel, the staging of construction materials and equipment and excavation spoil stockpiles will be placed and managed in a manner to minimize the risk of sediment transport to the drainage. Any surplus soil will be transported from the site and disposed of in accordance with federal, state, and local regulations. The SWPPP will identify areas where refueling and vehicle-maintenance activities and storage of hazardous materials will be permitted, if necessary. The plan will be maintained and updated during construction as required by the CGP.

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APM HYD-2: PG&E Worker Environmental Awareness Program. The PG&E worker environmental awareness program will be developed and provided separately to CPUC staff prior to construction. The worker environmental awareness program will communicate environmental issues and appropriate work practices specific to PG&E project components to all field personnel. These will include spill prevention and response measures and proper implementation of best practices. A copy of the PG&E worker environmental awareness program record will be provided to CPUC for recordkeeping at the completion of the project. A PG&E environmental monitoring program also will be implemented to ensure that the plans are followed throughout the construction period for PG&E project components.
BMP HYD-2: LEU Worker Environmental Awareness Program. LEU's worker environmental awareness program will communicate environmental issues and appropriate work practices specific to LEU project components to all field personnel. These will include spill prevention and response measures and proper implementation of best practices. An LEU environmental monitoring program also will be implemented to ensure that the plans are followed throughout the construction period for LEU project components.
APM HYD-3: Project Site Restoration. As part of the final construction activities, PG&E will restore all removed curbs and gutters, repave, and restore landscaping or vegetation as necessary for its portion of the project.
BMP HYD-3: Project Site Restoration. As part of the final construction activities, LEU will restore all removed curbs and gutters, repave, and restore landscaping or vegetation as necessary for its portion of the project.
APM HYD-4: SPCC Plan for PG&E Thurman Switching Station and SPCC Plan Modification for PG&E Lockeford Substation. PG&E will prepare an SPCC plan for PG&E Thurman Switching Station for implementation during operation, and the existing PG&E Lockeford Substation SPCC Plan will be modified prior to operation of the expanded facility, as required by applicable regulations (40 CFR 112). An SPCC plan includes engineered and operational methods for preventing, containing, and controlling potential releases (for example, construction of a retention pond, moats, or berms) as well as provisions for quick and safe cleanup.
BMP HYD-4: SPCC Plan for LEU Guild Substation and SPCC Plan Modification for LEU Industrial Substation. LEU will prepare an SPCC plan for LEU Guild Substation for implementation during operation, and the existing LEU Industrial Substation SPCC Plan will be modified prior to operation of the expanded facility, as required by applicable regulations (40 CFR 112). An SPCC plan includes engineered and operational methods for preventing, containing, and controlling potential releases (for example, construction of a retention pond, moats, or berms) as well as provisions for quick and safe cleanup.
APM HYD-5: Project Stormwater Plan for PG&E Thurman Switching Station. PG&E will prepare a Project Stormwater Plan for PG&E's Thurman Switching Station to submit to the City of Lodi as part of it building permit and to align with the City of Lodi's Stormwater Management and Discharge Control Code, Lodi Municipal Code Chapter 13.14. The plan will include proposed site design and control measures and postconstruction stormwater runoff calculations showing pre-project and post-project volumes.
BMP HYD-5: Project Stormwater Plan for LEU Guild Substation. LEU will prepare a Project Stormwater Plan for LEU Guild Substation to align with the City of Lodi's Stormwater Management and Discharge Control Code, Lodi Municipal Code Chapter 13.14. The plan will include proposed site design and control measures and postconstruction stormwater runoff calculations showing pre-project and post-project volumes.
Section 5.11 Land Use and Planning (LAN)
APM LAN-1: Provide Construction Notification and Minimize Construction Disturbance. A PG&E public liaison representative will provide the public with advance notification of PG&E construction activities, between approximately two and four weeks prior to construction. The announcement will state specifically where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion (for example, closing windows facing the planned construction).
BMP LAN-1: Provide Construction Notification and Minimize Construction Disturbance. A LEU public liaison representative will provide the public with advance notification of LEU construction activities, between approximately two and four weeks prior to construction. The announcement will state specifically where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion (for example, closing windows facing the planned construction).

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APM LAN-2: Provide Public Liaison Person and Toll-Free Information Hotline. PG&E will identify and provide a public liaison person before and during construction to respond to concerns of neighboring residents about noise, dust, and other construction disturbance. Procedures for reaching the public liaison officer via telephone, email, or in person will be included in notices distributed to the public as described previously. PG&E will also establish a toll-free telephone number for receiving questions or complaints during construction.
BMP LAN-2: Provide Public Liaison Person and Toll-Free Information Hotline. LEU will identify and provide a public liaison person before and during construction to respond to concerns of neighboring residents about noise, dust, and other construction disturbance. Procedures for reaching the public liaison officer via telephone, email, or in person will be included in notices distributed to the public as described previously. LEU will also establish a toll-free telephone number for receiving questions or complaints during construction.
Section 5.12 Mineral Resources
The project will have no impact on mineral resources, and no APMs or BMPs are proposed.
Section 5.13 Noise (NOI)
APM NOI-1: PG&E General Construction Noise Management. PG&E will employ standard noise-reducing construction practices such as the following: • Comply with manufacturer's muffler requirements on all construction equipment engines and ensure exhaust mufflers are in good condition. • Turn off construction equipment when not in use, where applicable. • Locate stationary equipment, construction staging areas, helicopter landing zones, and construction material areas as far as practical from sensitive receptors. • Include noise control requirements for construction equipment and tools in specifications provided to construction contractors to the maximum extent practicable, including performing all work in a manner that minimizes noise. • PG&E will provide written notice at least 1 week prior to planned construction activities to all sensitive receptors and residences within approximately 500 feet of construction sites, staging yards, and access roads, and within approximately 1,000 feet of helicopter landing zones. PG&E also will post notices in public areas, including recreational use areas, within approximately 500 feet of the project alignment and construction work areas. The announcement will state approximately where and when construction will occur in the area, including areas of helicopter construction. Notices will provide tips on reducing noise intrusion – for example, by closing windows facing the planned construction. PG&E will identify a public liaison to respond to concerns of neighboring receptors during construction, including residents, about construction noise disturbance. PG&E also will establish a toll-free telephone number for receiving questions or concerns during construction and develop procedures for responding to callers. Contact information for reaching the PG&E public liaison officer by telephone or in person will be included in the notices and also posted conspicuously at the construction sites. PG&E will respond to questions or concerns received.
BMP NOI-1: LEU General Construction Noise Management. LEU will employ standard noise-reducing construction practices such as the following: • Comply with manufacturer's muffler requirements on all construction equipment engines and ensure exhaust mufflers are in good condition. • Turn off construction equipment when not in use, where applicable. • Locate stationary equipment, construction staging areas, and construction material areas as far as practical from sensitive receptors. • Include noise control requirements for construction equipment and tools in specifications provided to construction contractors to the maximum extent practicable, including performing all work in a manner that minimizes noise. • LEU will provide written notice at least 1 week prior to planned construction activities to all sensitive receptors and residences within approximately 500 feet of construction sites, staging yards, and access roads. LEU will post notices in public areas, including recreational use areas, within approximately 500 feet of

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the construction work areas. The announcement will state approximately where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion – for example, by closing windows facing the planned construction. LEU will identify a public liaison to respond to concerns of neighboring receptors during construction, including residents, about construction noise disturbance. LEU also will establish a toll-free telephone number for receiving questions or concerns during construction and develop procedures for responding to callers. Contact information for reaching the LEU public liaison officer by telephone or in person will be included in the notices and also posted conspicuously at the construction sites. LEU will respond to questions or concerned received.
APM NOI-2: PG&E Noise Minimization with Portable Barriers. Compressors and other small stationary equipment used during construction of PG&E project components will be shielded with portable barriers if appropriate and if located within approximately 200 feet of a residence.
BMP NOI-2: LEU Noise Minimization with Portable Barriers. Compressors and other small stationary equipment used during construction of LEU project components will be shielded with portable barriers if appropriate and if located within approximately 200 feet of a residence.
APM NOI-3: PG&E Noise Minimization with Quiet Equipment. Quiet equipment will be used during construction of PG&E project components whenever possible (for example, equipment that incorporates noise-control elements into the design, such as quiet model compressors or generators, can be specified).
BMP NOI-3: LEU Noise Minimization with Quiet Equipment. Quiet equipment will be used during construction of LEU project components whenever possible (for example, equipment that incorporates noise-control elements into the design, such as quiet model compressors or generators, can be specified).
APM NOI-4: PG&E Noise Minimization through Direction of Exhaust. When in proximity to noise-sensitive uses, PG&E equipment exhaust stacks and vents will be directed away from those noise-sensitive uses where feasible.
BMP NOI-4: LEU Noise Minimization through Direction of Exhaust. When in proximity to noise-sensitive uses, LEU equipment exhaust stacks and vents will be directed away from those noise-sensitive uses where feasible.
APM NOI-5: PG&E Noise Disruption Minimization through Residential Notification. In the event that nighttime construction is necessary for PG&E project components– for instance, if certain activities such as line splicing or horizontal directional drilling in certain soil conditions need to continue to completion – affected residents will be notified in advance by mail, personal visit, or door-hanger, and will be informed of the expected work schedule.
BMP NOI-5: LEU Noise Disruption Minimization through Residential Notification. In the event that nighttime construction is necessary for LEU project components – for instance, if certain activities such as horizontal directional drilling in certain soil conditions need to continue to completion – affected residents will be notified in advance by mail, personal visit, or door-hanger, and will be informed of the expected work schedule.
APM NOI-6: PG&E Horizontal Directional Drilling Noise Minimization Measures. Temporary barriers utilizing materials such as intermodal containers or frac tanks, plywood walls, mass-loaded vinyl (vinyl impregnated with metal), sound-absorbing blankets, hay bales, or similar materials will be used to reduce noise generated by the auger bore operations. HDD activities will be limited to daylight hours unless a situation arises where ceasing the activity would compromise safety (both human health and environmental) and the integrity of the project. If nighttime HDD activities are required, the project will monitor actual noise levels from the HDD activities between 10:00 p.m. and 7:00 a.m. If the nighttime noise levels created by the HDD operation result in outreach to PG&E public liaison officer and are in excess of the ambient noise level by approximately 5 dBA at the nearest residential property plane, PG&E will, within 24 hours of the excess measurement, employ additional minimization measures to the greatest extent practicable. Such measures may include ensuring that semipermanent stationary equipment (for example, generators) is stationed as far from sensitive areas as practicable, using sound-attenuated "quiet" or "Hollywood/Movie Studio" silencing packages, or modifying barriers to further reduce noise levels.
BMP NOI-6: LEU Horizontal Directional Drilling Noise Minimization Measures. Temporary barriers utilizing materials such as intermodal containers or frac tanks, plywood walls, mass-loaded vinyl (vinyl impregnated with metal), sound-absorbing blankets, hay bales, or similar materials will be used to reduce noise generated by the auger bore operations. HDD activities will be limited to daylight hours unless a situation arises where ceasing the activity would compromise safety (both human health and environmental) and the integrity of the project. If nighttime HDD

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activities are required, the project will monitor actual noise levels from HDD activities between 10:00 p.m. and 7:00 a.m. If the nighttime noise levels created by HDD operation result in outreach to LEU public liaison officer and are in excess of the ambient noise level by approximately 5 dBA at the nearest residential property plane, LEU will, within 24 hours of the excess measurement, employ additional minimization measures to the extent practicable. Such measures may include ensuring that semi-permanent stationary equipment (for example, generators) is stationed as far from sensitive areas as practicable, using sound-attenuated "quiet" or "Hollywood/Movie Studio" silencing packages, or modifying barriers to further reduce noise levels.
APM NOI-7: PG&E Noise Minimization Equipment Specification. PG&E will specify general construction noise reduction measures that require the contractor to ensure that all equipment is in good working order, adequately muffled, and maintained in accordance with the manufacturers' recommendations.
BMP NOI-7: LEU Noise Minimization Equipment Specification. LEU will specify general construction noise reduction measures that require the contractor to ensure that all equipment is in good working order, adequately muffled, and maintained in accordance with the manufacturers' recommendations.
Section 5.14 Population and Housing
The project will have no impact on population and housing, and no APMs or BMPs are proposed.
Section 5.15 Public Services
The project will have no impact on public services, and no APMs or BMPs are proposed.
Section 5.16 Recreation
The project will have no impact on recreation, and no APMs or BMPs are proposed.
Section 5.17 Transportation (TRA)
APM TRA-1: PG&E Temporary Traffic Controls. PG&E will obtain any necessary transportation and encroachment permits from Caltrans and the local jurisdictions, as required, including those permits related to state route crossings and the transport of oversized loads and certain materials, and will comply with permit requirements designed to prevent excessive congestion or traffic hazards during construction. PG&E will develop traffic control plans to detail road and lane closure or width reduction or traffic diversions as required by the encroachment permits. Construction activities that are in, along, or cross local roadways will follow best practices and local jurisdictional encroachment permit requirements—such as traffic controls in the form of signs, cones, and flaggers—to minimize impacts on traffic and transportation in the project area. PG&E will provide the CPUC with copies of permits obtained prior to construction activity in a given jurisdiction or location. If required for obtaining a local encroachment permit, PG&E will establish a Traffic Management Plan (TMP) to address haul routes, timing of heavy equipment and building material deliveries, potential street or lane closures, signing, lighting, and traffic control device placement. When working on state highways, PG&E will ensure traffic control operations are compliant with both the *California Temporary Traffic Control Handbook*, 2018 edition, and the *California Manual on Uniform Traffic Control Devices*, 2014 edition.
BMP TRA-1: LEU Temporary Traffic Controls. LEU will obtain any necessary transportation and encroachment permits from Caltrans and the local jurisdictions, as required, including those permits related to the transport of oversized loads and certain materials, and will comply with permit requirements designed to prevent excessive congestion or traffic hazards during construction. LEU will develop traffic control plans to detail road and lane closure or width reduction or traffic diversions as required by the encroachment permits. Construction activities that are in, along, or cross local roadways will follow best practices and local jurisdictional encroachment permit requirements—such as traffic controls in the form of signs, cones, and flaggers—to minimize impacts on traffic and transportation in the project area. If required for obtaining a local encroachment permit, LEU will establish a TMP to address haul routes, timing of heavy equipment and building material deliveries, potential street or lane closures, signing, lighting, and traffic control device placement.
APM TRA-2: PG&E Repair of Damaged Transportation Infrastructure. As part of the final construction activities of the project, PG&E will restore all removed curbs, gutters, and sidewalks, and repave all removed or damaged paved surfaces associated with PG&E construction activities.

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BMP TRA-2: LEU Repair of Damaged Transportation Infrastructure. As part of the final construction activities of the project, LEU will restore all removed curbs, gutters, and sidewalks, and repave all removed or damaged paved surfaces associated with LEU construction activities.

Section 5.18 Tribal Cultural Resources (TCR)

APM TCR-1: Undiscovered Potential Tribal Cultural Resources. The following procedure will be employed (after stopping work and following the procedure for determining eligibility in APM CUL-4) if a resource is encountered and determined by the geographically affiliated tribe in collaboration with the project's qualified archaeologist (if applicable) to be potentially eligible for the California Register of Historical Resources (CRHR) or a local register of historic resources and is associated with a California Native American Tribe with a traditional and cultural affiliation with the geographic area of the proposed project:

- The PG&E cultural resources specialist will notify the CPUC for appropriate action. PG&E will assist the CPUC if needed to identify the lead contact person for the California Native American Tribe(s) potentially associated with the cultural resource and with a traditional and cultural affiliation with the geographic area of the proposed project. The CPUC will communicate with the lead contact person to set up a meeting with PG&E and the CPUC.
- The PG&E cultural resources specialist will participate with the CPUC in discussions with the California Native American Tribe(s) to determine whether the resource is a "tribal cultural resource" as defined by PRC Section 21074 and the tribe(s)' preferred method of mitigation, if the resource is determined to be a TCR.

If no agreement can be reached for mitigation after discussions with the California Native American Tribe(s) or it is determined that the tribe(s)' preferred mitigation is not feasible, PG&E will implement one of the example mitigation measures listed in PRC Section 21084.3(b), or other feasible mitigation.

BMP TCR-1: Undiscovered Potential Tribal Cultural Resources. The following procedure will be employed (after stopping work and following the procedure for determining eligibility in BMP CUL-4) if a resource is encountered and determined by the geographically affiliated tribe in collaboration with the project's qualified archaeologist (if applicable) to be potentially eligible for the CRHR or a local register of historic resources and is associated with a California Native American Tribe with a traditional and cultural affiliation with the geographic area of the proposed project:

- The LEU cultural resource lead will notify the CPUC for appropriate action. LEU will assist the CPUC if needed to identify the lead contact person for the California Native American Tribe(s) potentially associated with the cultural resource and with a traditional and cultural affiliation with the geographic area of the proposed project. The CPUC will communicate with the lead contact person to set up a meeting with LEU and the CPUC.
- The LEU cultural resource lead will participate with the CPUC in discussions with the California Native American Tribe(s) to determine whether the resource is a "tribal cultural resource" as defined by PRC Section 21074 and the tribe(s)' preferred method of mitigation, if the resource is determined to be a TCR.

If no agreement can be reached for mitigation after discussions with the California Native American Tribe(s) or it is determined that the tribe(s)' preferred mitigation is not feasible, LEU will implement one of the example mitigation measures listed in PRC Section 21084.3(b), or other feasible mitigation.

Section 5.19 Utilities and Service Systems

The project will have no impact on utilities and service systems, and no APMs or BMPs are proposed.

Applicant-Proposed Measures and Best Management Practices

Section 5.20 Wildfire (WFR)

APM WFR-1: PG&E Construction Fire Prevention Plan. A project-specific *Construction Fire Prevention Plan* for construction of the project will be prepared prior to initiation of construction by PG&E. The PG&E plan will be approved by the CPUC and the local fire agencies with jurisdiction over the areas where the project is located at least 90 days prior to the initiation of construction activities in areas designated as very high or high FHSZs. Plan reviewers also will include federal, state, or local agencies with jurisdiction over areas where the project is located. The final plan will be approved by the CPUC at least 30 days prior to the initiation of construction activities. The plan will be fully implemented throughout the construction period, and it will include the following at a minimum:

- The purpose and applicability of the plan
- Incorporation of the requirements in PG&E's current Utility Standard for *Preventing and Mitigating Fires While Performing PG&E Work*
- Responsibilities and duties for compliance
- Preparedness training and drills
- Procedures for fire reporting, response, and prevention that include:

Identification of daily site-specific risk conditions

The tools and equipment needed on vehicles and on hand at sites

Reiteration of fire prevention and safety considerations during tailboard meetings

Daily monitoring of the Red-Flag Warning System with appropriate restrictions on types and levels of permissible activity

- Coordination procedures with federal, state, and local fire officials
- Crew training, including the construction fire prevention practices described in APM WFR-2
- Method(s) for verifying that all plan protocols and requirements are being followed

A project Fire Marshal or similar qualified person will be responsible for training project personnel and enforcing all provisions of the *PG&E Construction Fire Prevention Plan,* as well as performing other duties related to fire detection, prevention, and suppression for the project. Construction activities will be monitored to ensure implementation and effectiveness of the plan.

BMP WFR-1: LEU Construction Fire Prevention Plan. A project-specific *Construction Fire Prevention Plan* for construction of the project will be prepared prior to initiation of construction by LEU. The plan will be provided to the City of Lodi Fire Department, which has jurisdiction over the area where LEU's project activities are located, none of which are within very high or high FHSZs. The plans will be provided to the department at least 90 days prior to the initiation of construction activities for review and approval. The plan will be fully implemented throughout the construction period, and it will include the following at a minimum:

- The purpose and applicability of the plan
- Incorporation of the requirements in LEU's current Wildfire Management Plan (WMP)
- Responsibilities and duties for compliance
- Preparedness training and drills
- Procedures for fire reporting, response, and prevention that include:

Identification of daily site-specific risk conditions

The tools and equipment needed on vehicles and on hand at sites

Reiteration of fire prevention and safety considerations during tailboard meetings

Daily monitoring of the Red-Flag Warning System with appropriate restrictions on types and levels of permissible activity

- Coordination procedures with federal, state, and local fire officials
- Crew training, including the construction fire prevention practices described in BMP WFR-2
- Method(s) for verifying that all plan protocols and requirements are being followed

A project Fire Marshal or similar qualified person will be responsible for training project personnel and enforcing all provisions of the *LEU Construction Fire Prevention Plan,* as well as performing other duties related to fire detection,

Applicant-Proposed Measures and Best Management Practices

prevention, and suppression for the project. Construction activities will be monitored to ensure implementation and effectiveness of the plan.

APM WFR-2: PG&E Fire Prevention Practices. PG&E will implement the following fire prevention practices at active construction sites and during maintenance activities:

- Existing PG&E personnel conducting maintenance on the project are trained on the PG&E Utility Standard TD-1464S for Preventing and Mitigating Fires While Performing PG&E Work and will follow the standard in regard to training, preparation, communication methods and means, observations of and alerts concerning weather conditions including National Weather Service (NWS) events, and PG&E's work restrictions and fire mitigation required for elevated PG&E utility fire potential index (FPI) ratings (R4, R5, or R5-Plus).
- Construction personnel will be trained in fire-safe actions, including PG&E's current Utility Standard for Preventing and Mitigating Fires While Performing PG&E Work, Wildfire Prevention Contract Requirements, and the project's PG&E Construction Fire Prevention Plan concerning initial attack, firefighting, and fire reporting. Construction personnel will be trained and equipped to extinguish small fires to prevent them from growing into more serious threats.
- All construction personnel will carry a laminated card and be provided a hard hat sticker that list pertinent telephone numbers for reporting fires and define immediate steps to take if a fire starts. Information on laminated contact cards and hard hat stickers will be updated as needed and redistributed to all construction personnel prior to the day the information change goes into effect.
- PG&E will coordinate with the applicable local fire departments prior to construction activities to determine the appropriate amounts of fire equipment to be carried on vehicles and, should a fire occur, to coordinate fire suppression activities as part of the PG&E Construction Fire Prevention Plan review.
- Construction personnel will have fire suppression equipment on all construction vehicles and will be required to park vehicles away from dry vegetation. Water tanks and/or water trucks will be sited or available at active project sites for fire protection during construction.
- All construction crews and inspectors will be provided with radio and cellular telephone access that is operational in all work areas and access routes to allow for immediate reporting of fires. Communication pathways and equipment will be tested and confirmed operational each day prior to initiating construction activities at each work site. All fires will be reported to the fire agencies with jurisdiction in the area immediately upon discovery of the ignition.
- While performing stationary ground-level jobs or activities from which a spark, fire, or flame may originate (for example, welding, cutting, grinding), all flammable material (for example, grass, leaf litter, dead or dying tree) must be removed down to the mineral soil around the operation for a minimum of 10 feet.
- PG&E General Requirements for wildfire mitigation (R1 to R3) apply for PG&E work areas located farther than 5 miles from a fire index area (FIA) when the nearest FIA has an elevated FPI rating (R4, R5, or R5-Plus), except during NWS Red-Flag Warnings and Fire Weather Watch events when R5 mitigations would apply.
- At PG&E's Clayton Hill Repeater Station, which is within an FIA, during Red-Flag Warning and Fire Weather Watch events, as issued by the NWS, and elevated PG&E utility FPI rating (R4, R5, or R5-Plus), all construction activities will refer to the current PG&E Standard TD-1464S and related requirements such as PG&E Wildfire Prevention Contract Requirements, Attachment 1 – Wildfire Mitigation Matrix, and Attachment 2 – Wildfire Risk Checklist Fire Mitigations. With increased potential fire risk of R4, additional water resources are required and a working fire watch is assigned to be able to continue work as long as the weather conditions are evaluated to ensure it remains safe to continue work.

For R5 and R5-Plus ratings, mitigation beyond R1 to R4 levels includes a dedicated fire watch at the jobsite, a trailer-mounted water tank or alternative water delivery method at the jobsite, and modifying the fuel sources surrounding the jobsite. All planned work is suspended during an R5-Plus fire rating. During all emergency work being performed for an R5-Plus fire rating, personnel must have a PG&E Safety and Infrastructure Protection Team on standby or a 300-gallon water tender available. Use of heavy equipment (blades, dozers, skid steers, excavators, back hoes), construction hot work, and electrical equipment work (including tasks related to conductors, pole, and overhead equipment from which a spark, fire, or flames may originate) are allowed with the R5 mitigations in place but not allowed during R5-Plus conditions.

Applicant-Proposed Measures and Best Management Practices

BMP WFR-2: LEU Construction Fire Prevention Practices. LEU will implement the following fire prevention practices at active construction sites and during maintenance activities:

- Existing LEU personnel conducting maintenance on the project are trained on the LEU WMP and will follow the plan in regard to training, preparation, communication methods and means, observations of and alerts concerning weather conditions including NWS events, and LEU's work restrictions and fire mitigation required for elevated fire potential.
- Construction personnel will be trained in fire-safe actions, including the LEU project Construction Fire Prevention Plan, initial attack firefighting, and fire reporting. Construction personnel will be trained and equipped to extinguish small fires to prevent them from growing into more serious threats.
- All construction personnel will carry a laminated card and be provided a hard hat sticker that list pertinent telephone numbers for reporting fires and defining immediate steps to take if a fire starts. Information on laminated contact cards and hard hat stickers will be updated as needed and redistributed to all construction personnel prior to the day the information change goes into effect.
- LEU will coordinate with the City of Lodi Fire Department prior to construction activities to determine the appropriate amounts of fire equipment to be carried on vehicles and, should a fire occur, to coordinate fire suppression activities as part of the LEU Construction Fire Prevention Plan review.
- Construction personnel will have fire suppression equipment on all construction vehicles and will be required to park vehicles away from dry vegetation. Water tanks and/or water trucks will be sited or available at active project sites for fire protection during construction.
- All construction crews and inspectors will be provided with radio and cellular telephone access that is operational in all work areas and access routes to allow for immediate reporting of fires. Communication pathways and equipment will be tested and confirmed operational each day prior to initiating construction activities at each work site. All fires will be reported to the fire agencies with jurisdiction in the area immediately upon discovery of the ignition.
- While performing stationary ground-level jobs or activities from which a spark, fire, or flame may originate (for example, welding, cutting, grinding), all flammable material (for example, grass, leaf litter, dead or dying tree) must be removed down to the mineral soil around the operation for a minimum of 10 feet.
- The risk for potential fire hazards associated with the construction of the new substation is low because the setting has no known potential wildfire risk. Given the surrounding settings of urban development, LEU does not expect any restrictions to be used for "high-risk days." LEU will continue to comply with its 2021 WMP, as updated yearly.

3.12 Electric and Magnetic Fields Discussion

Recognizing that there is public interest and concern regarding potential health effects from exposure to electric and magnetic fields (EMF) from power lines, this document provides some general background information in Appendix 3A regarding EMF. The CPUC has repeatedly recognized that EMF is not an environmental impact to be analyzed in the context of CEQA because (1) there is no agreement among scientists that EMF creates a potential health risk, and (2) there are no defined or adopted CEQA standards for defining health risk from EMF. For example, refer to CPUC Decision No. 04-07-027 (July 16, 2004); Delta DPA Capacity Increase Substation Project Final Mitigated Negative Declaration and Supporting Initial Study (November 2006), A.05-06-022, Section B.1.14.1, page B-31, adopted in Decision 07-03-009 (March 1, 2007).

Section X(A) of the CPUC's GO 131-D, CPUC Decision No. D.06-01-042 ("EMF Decision"), and PG&E's EMF Design Guidelines prepared in accordance with the EMF Decision, require PG&E to prepare a Field Management Plan that indicates the no-cost and low-cost EMF measures that will be installed as part of the final engineering design for the project. The Field Management Plan will evaluate the no-cost and low-cost measures considered for the project, the measures adopted, and reasons that certain measures were not adopted. A copy of the Preliminary EMF Management Plan and Substation Checklist for this project will be included as an exhibit to the project Application provided to the CPUC.

4 Description of Alternatives

This chapter considers and discusses alternatives to the Northern San Joaquin 230 kV Transmission Project, consistent with the CEQA Guidelines, Section 15126.6. It is prepared in accordance with the CPUC's *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments*, which assumes an Environmental Impact Report (EIR) would be prepared for the proposed project, unless CPUC CEQA Unit Staff make a preliminary determination during pre-filing consultation that a Mitigated Negative Declaration is likely. The description of alternatives is provided in this chapter of the Proponent's Environmental Assessment (PEA), and the comparison of each alternative to the proposed project is provided in Chapter 6, Comparison of Alternatives. The project is described in detail in Chapter 3, Project Description, of this PEA.

Because the CPUC anticipates preparing an EIR for the state environmental document, this PEA section has been prepared consistent with CEQA requirements to support the CPUC action. CEQA Guidelines Section 15126.6(e)(2) states that "if the environmentally superior alternative is the 'no project' alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives."

Section 4.1 discusses the alternatives screening methodology. Section 4.2 lists alternatives considered and describes those carried forward for analysis. Section 4.3 provides a description of the No Project Alternative. Section 4.4 discusses alternatives that were rejected and the reasons for the rejection.

4.1 Alternatives Screening Methodology

As noted in the CEQA Guidelines Section 15126.6(a), the alternatives described in an EIR must feasibly accomplish most of the basic project objectives, should reduce or eliminate one or more of the significant impacts of the proposed project, and must be potentially feasible. To comply with these requirements, PG&E screened potential alternatives based on three criteria:

1. Does the alternative meet most basic project objectives?

Section 15126(a) of the CEQA Guidelines requires that project objectives be set forth in an EIR to help define alternatives to the proposed project that meet most of the basic project objectives. Moreover, a project may not limit its objectives in such a way as to effectively confine the range of feasible alternatives that are available. The project purpose and objectives are discussed in Chapter 2, Introduction.

The purpose of the project is to address reliability and capacity issues on the existing PG&E 230 kV and 60 kV systems serving the area between PG&E Lockeford and PG&E Lodi substations in northern San Joaquin County. The proposed project is needed because the existing PG&E 230/60 kV system is experiencing voltage issues and thermal overloads. The northern San Joaquin area is forecasted to continue to grow its power load requirements, which will worsen these voltage and thermal overload issues. Chapter 2 of this PEA contains additional discussion of the project purpose.

PG&E has identified the following objectives for the project:

- Meet PG&E's legal obligation to implement the CAISO-approved project.
- Improve system reliability for PG&E's approximately 10,000 electrical customers, one of which is Lodi Electric Utility, which itself serves approximately 27,750 customers.
- Increase capacity to accommodate projected growth in demand and minimize future reliability issues.
- Address thermal overloads and voltage concerns on PG&E's 60 kV system identified during P1 contingencies and maintain compliance with the NERC standards.
- Address thermal overloads on PG&E's 60 kV system identified during P6 contingencies and maintain compliance with the NERC standards.

- Reinforce the PG&E 60 kV system in the Lodi area by constructing a new PG&E 230 kV double-circuit line to provide an additional source of power.
- Construct a new PG&E 230 kV switching station to receive the new PG&E 230 kV double-circuit line and provide power to a new 230 kV/60 kV substation to be constructed by LEU.
- Separate PG&E's 60 kV system at the LEU Industrial Substation from LEU's 60 kV system.
- Construct a safe, economical, and technically feasible project that minimizes environmental and community impacts.

2. Is the alternative feasible?

As defined by Section 15364 of the CEQA Guidelines, "feasible" means capable of being accomplished in a successful manner within a reasonable period of time, taking into consideration economic, environmental, legal, social, and technological factors. These factors include, for example, technology availability, constructability, and regulatory permits. PG&E considered these factors in evaluating the overall list of potential alternatives. To evaluate the feasibility of different transmission line corridors, PG&E considered potential routes based on the siting objectives and existing setting shown in Table 4.1-1.

Table 4.1-1. Siting Analysis Objectives and Existing Setting

Siting Objectives	Existing Setting
Compatibility with Land Use and Land Ownership	• Land ownership and jurisdiction • Recreational areas • Population density • Land use
Compatibility with Agricultural Land Uses	• Agricultural crop type/land use • Center-pivot irrigation • Prime farmland soils • California farmland mapping and monitoring • Williamson Act lands
Compatibility with Infrastructure	• Existing utilities and facilities • Other linear facilities • Communication towers
Provision for Efficient and Reliable Engineering, Construction, and Operations	• Site slope • Construction access and staging • Flood or other water inundation • Geotechnical conditions • Solid waste landfill and hazardous materials sites • Airfield • Length of line
Protection of Natural Resources	• Wetlands and waterways • Natural resource protection • Special-status species critical habitat • Vegetation/land cover types
Protection of Cultural Resources	• High-sensitivity areas • Historic landmarks and historic places
Protection of Visual Resources	• Designated scenic resources and visually sensitive areas

The existing setting was not reviewed during siting for the associated switching station or substations' modification, expansion, and construction because these project components were predetermined to be located within or adjacent to existing facilities.

3. Does the alternative avoid or substantially lessen any significant environmental effects of the proposed project (including consideration of whether the alternative itself could create significant environmental effects potentially greater than those of the proposed project)?

Per Section 15126.6(a) of the CEQA Guidelines, alternatives considered must "avoid or substantially lessen any of the significant effects of the project." Based on the analysis presented in Chapter 5, Environmental Analysis, the project is not expected to result in significant impacts. Nevertheless, PG&E evaluated alternatives based on potential environmental impacts, including:

- Conflicts with existing land uses
- Conflicts with existing agricultural land uses, including wineries
- Impacts on special-status species and habitats
- Impacts on visual resources

4.2 Alternatives Considered

4.2.1 Potential Alternatives to the Project

Section 15126.6(a) of the CEQA Guidelines requires an EIR to consider a reasonable range of potentially feasible alternatives to the proposed project to support informed decision-making and public participation. Alternatives described in an EIR must feasibly accomplish most of the basic project objectives and reduce or eliminate one or more of the significant impacts of the proposed project. An EIR is not required to consider every conceivable alternative to a project, nor is it required to consider alternatives that are infeasible. Per Section 15126.6(e) of the CEQA Guidelines, an EIR also must consider the No Project Alternative to allow decision-makers to compare the impacts of approving the proposed project against the impacts of not approving the proposed project. The No Project Alternative is discussed in Section 4.3.

Section 15126.6 of the CEQA Guidelines states that an EIR must briefly describe the rationale for selecting the alternatives to be discussed. In addition, an EIR should identify any alternatives that were considered but were rejected as infeasible during the scoping process and briefly explain the reason for their rejection.

PG&E obtained input on potential alternatives from CAISO, community and agency stakeholder information, and project planners and engineers. The public outreach process is described in Chapter 2; after each stakeholder meeting, PG&E considered the input as part of its project planning and identification of alternatives. In developing a list of alternatives for consideration in this PEA, PG&E considered the following factors:

- Alternatives to the proposed project that were suggested, considered, or studied by CAISO or by a CAISO stakeholder. The CAISO studied a prior version of the project, the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) project. CAISO stakeholders suggested battery energy storage solutions be considered.
- Alternatives suggested during public outreach; stakeholders had numerous suggestions for transmission line routing such as use of existing ROW or roadways, and also suggested undergrounding as an option.
- Reduction in footprint, which is incorporated in the project design through use of monopoles instead of traditional towers and by constructing new and expanded substations on existing substation property. Reduction in footprint also was considered through system alternatives such as reconductoring and battery energy storage, which are listed in Table 4.2-1 as system and energy storage alternatives. In addition, use of existing ROW for new transmission lines, which could reduce project footprint, was considered as part of siting analysis.
- Project phasing. No alternatives were identified for project phasing, because the entire project must be built to meet basic objectives.

- Alternative facility and construction activity sites. Alternative locations for transmission lines are included in the evaluation of possible transmission line routes. Multiple potential construction staging areas have been included in the project description. Alternative locations were not considered for substation expansion and construction because the use of existing substation sites as included in the project description is expected to be the least impactful.
- Renewable energy, energy conservation, energy efficiency, demand response, distributed energy resources, and energy storage. The potential for alternatives of this type was limited. For example, feasible reductions in energy use from energy conservation/energy efficiency would not be sufficient to avoid voltage issues and thermal overload issues. These considerations did support identification of alternatives incorporating battery storage and distribution energy resources.
- Avoiding or limiting the construction of new transmission-voltage facilities, which was considered in reconductoring alternatives, energy storage, and demand response alternatives.
- Transmission line routes. As part of its routing, PG&E evaluated electrical transmission or power lines, railroads and roads within the project area for potential paralleling or ROW reuse opportunities, as well as routes across agricultural land, as possible corridors for the new 230 kV lines. While some roads were identified as having opportunities and are included as alignments for retained routes, aligning was constrained for most roads and lines because of structures and existing vegetation (mature trees/biological resources). PG&E used the siting objectives and existing setting discussed in Section 4.1 to identify several potential corridors to be carried forward for further analysis as alternatives.
- Engineering or technological approaches, which were incorporated in reconductoring, routing, and other alternatives.

PG&E identified 13 alternatives and screened them against the three criteria discussed in Section 4.1. The alternatives are provided in the following list. Siting alternatives either were identified to be carried forward by PG&E's siting analysis or were suggested by stakeholders. Other alternatives were identified by CAISO or public stakeholders. Table 4.2-1 summarizes the alternatives screening analysis.

System Alternatives

A. Lockeford-Lodi Area 230 kV Development (Eight Mile Substation, CAISO 2013)
B. 60 kV Reconductoring
C. Upgrade Lockeford-Industrial 60 kV to 115 kV
D. Undergrounding

Siting Alternatives

A. Central Route
B. Northern Route
C. Southern Route East
D. Victor Road/SR 12 Route
E. East Kettleman Lane Route
F. Use Existing 60 kV ROW (including replacing existing 60 kV with 230 kV, building parallel line to 60 kV, or building 230 kV over 60 kV)

Energy Storage Alternatives

A. BESS Only
B. Hybrid BESS

Demand Response Alternative

A. Distribution Energy Resources Improvement

Table 4.2-1. Summary of Alternatives Screening Analysis

Potential Alternative	Project Purpose and Objectives Criterion	Feasibility Criterion[a]	Environmental Criterion[b]
System Alternatives			
A. Lockeford-Lodi Area 230 kV Development (Eight Mile Substation)	Meets project purpose and most objectives.	Alternative would cost more than project, with a new 230 kV transmission line approximately twice as long as project. Otherwise appears feasible.	Impacts likely greater than project because of longer transmission line (approximately twice as long as project).
B. 60 kV Reconductoring	Does not meet project purpose or most objectives. Reconductored 60 kV lines would not be strong enough to address the voltage and thermal issues.	Alternative appears feasible.	Impacts would likely be less than the project because of reconducting and replacement of 60 kV poles within existing alignments.
C. Upgrade PG&E Lockeford-Industrial 60 kV to 115kV	Would not meet project purpose or most objectives. A 115 kV line would not be strong enough to address the voltage and thermal issues.	Alternative appears feasible.	Similar impacts compared to the proposed project because of the 115 kV line having a similar ROW footprint and construction duration.
D. Undergrounding	Meets project purpose and most objectives. It is not consistent with CAISO-recommended solution.	Not economically feasible. Cost is an order of magnitude greater than the proposed project or other alternatives.	Avoids visual and other impacts of aboveground alternatives. Construction impacts would be greater than project for some areas such as traffic and air quality.
Siting Alternatives			
E. Central Route	Meets project purpose and most objectives.	Alternative appears feasible.	Impacts would likely be similar to the project.
F. Northern Route	Meets project purpose and most objectives.	Alternative appears feasible.	Impacts would likely be similar to the project.
G. Southern Route East	Does not fully meet project purpose based on reliability concerns. Meets most objectives, except for improving reliability. Having a double-circuit 230 kV transmission line cross over multiple other transmission lines (required near PG&E Lockeford Substation) can compound line failures.	Alternative appears feasible, although it presents technological issues in crossing multiple existing transmission lines near PG&E Lockeford Substation.	Results in greater impacts than the project based on multiple crossings of wetlands and creeks, as well as longer transmission line. More and taller poles would be required in the vicinity of PG&E Lockeford Substation to cross existing transmission lines, increasing visual impacts.

Potential Alternative	Project Purpose and Objectives Criterion	Feasibility Criterion[a]	Environmental Criterion[b]
H. Victor Road/SR 12 Route	Does not meet project purpose or objectives because it is not technically feasible.	Not technically feasible. Between Kennison Lane and UPRR Railroad, there is not enough clearance to accommodate height restrictions or ROW width requirements for a new 230 kV line because of industrial developments on the north and residential developments on the south of the roadway.	If it were technically feasible, potentially greater impacts because of the portion of line between eastern end of SR 12 and PG&E Lockeford Substation. Siting options for this section place a potential 230 kV line in very close proximity to residences that would be within the required ROW.
I. East Kettleman Lane Route	Does not meet project purpose or objectives because it is not technically feasible.	Not technically feasible. There is not enough clearance to accommodate height restrictions or ROW width requirements for a new 230 kV line along some portions of East Kettleman Lane.	If it were technically feasible, potentially greater impacts from placing 230 kV line in very close proximity to residences and businesses that would be within the required ROW.
J. Use Existing 60 kV ROW	Does not meet project purpose or objectives because it is not technically feasible.	Not technically feasible. Each existing 60 kV power line has lengths with insufficient ROW to accommodate the required ROW for 230 kV line. Proximity to roads, existing structures, and mature vegetation prevents expansion of 60 kV ROW. Additionally, three circuits on the same structure create a single point of failure and is a nonstandard design.	If it were technically feasible, potentially greater impacts from placing 230 kV line in very close proximity to residences and businesses that would be within the required ROW.
Energy Storage Alternatives			
K. BESS Only	Would not meet project purpose or most objectives, including mitigating thermal overloads and meeting PG&E's legal obligations. The batteries cannot be charged enough to address the overloads under the NERC P1 category contingency.	Alternative appears feasible. Some uncertainty given the unknown timeline for a BESS to be built, which would be done by a third party selected by CAISO through a competitive bid process. There is also a lack of a clear standard for battery sizing.	Impacts would be less than the project because no new 230 kV lines would be constructed.

Potential Alternative	Project Purpose and Objectives Criterion	Feasibility Criterion[a]	Environmental Criterion[b]
L. Hybrid BESS	Would meet project purpose and some objectives. Would not accommodate projected growth in demand beyond approximately 10 years.	Alternative appears feasible. Some uncertainty given the unknown timeline for a BESS to be built, which would be done by a third party selected by CAISO through a competitive bid process. There is also a lack of a clear standard for battery sizing.	Impacts would likely be similar to the project based on reconductoring and replacement of 60 kV poles.
Demand Response Alternatives			
M. Distribution Energy Resources Improvement	Would not meet project purpose or most objectives.	Not technically feasible to reduce electrical system demand sufficiently to meet project objectives.	Unable to determine because exact improvements are unknown.

Notes:

[a] Considers economic, environmental, legal, social, and technological factors.

[b] Proposed project would not result in significant environmental impacts.

Bold text indicates alternative carried forward in the PEA.

4.2.2 Alternatives Carried Forward for PEA Evaluation

Three alternatives, in addition to the No Project Alternative, are carried forward for evaluation in this PEA. These alternatives are shown on Figure 4.2-1 and are described in the following sections. These alternatives were selected because they are potentially feasible, meet the underlying purpose of the proposed project, meet most of the project objectives, and represent a reasonable range of alternatives to the project. As noted earlier in this chapter, the proposed project would not result in potentially significant impacts.

4.2.2.1 Central Route Alternative

Description. The Central Route Alternative would route the western portion of the new 230 kV line to the north of the proposed project between PG&E Lockeford Substation and LEU Industrial Substation, as shown on Figure 4.2-1. It would parallel portions of the existing PG&E Lockeford-Industrial 60 kV Line. For the eastern segment between PG&E Lockeford Substation and PG&E Brighton-Bellota 230 kV Line, this alternative would parallel the existing PG&E Lockeford-Bellota 230 kV Line, the same eastern alignment as the project. The total length of new PG&E 230 kV transmission lines would be approximately 10.04 miles.

Within the footprint of the Central Route Alternative, land uses include orchard and semiagricultural, including wineries, with rural residential clusters mainly on local and county roads with mature vegetation. Like the project, the Central Route Alternative includes one canal crossing (Bear Creek), one highway crossing (SR 88), one railroad crossing, and multiple road crossings. The Central Route Alternative would enter the City of Lodi approximately 0.5 mile south of the proposed project and follow South Guild Avenue north to PG&E Thurman Switching Station. Some of the 230 kV tubular steel pole structures would likely need to be in business parking lots fronting South Guild Avenue for this route segment to accommodate the needed 230 kV alignment width.

All other components of this alternative would be the same as the project, including:

- PG&E Thurman Switching Station
- LEU Guild Substation
- PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines
- LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines
- PG&E 60 kV power lines reconfiguration

In general, construction activities for the Central Route Alternative would be similar to the project, including the types of equipment to be used in each phase of construction and hours per day that equipment would be used during construction (refer to Chapter 3, Project Description). Substation construction activities would be the same as the proposed project. Construction staging areas, pull-and-tension sites, and access roads were not identified for this alternative, but would be expected to be similar to and at the same scale as the project.

Rationale for Carrying Forward. The Central Route Alternative would meet the project purpose and all project objectives, and it would be feasible. This alternative was carried forward to compare the project to an alternative that would increase paralleling of existing roadways and power line ROW.

4.2.2.2 Northern Route Alternative

Description. The Northern Route Alternative alignment would route the western portion of the new 230 kV corridor, between PG&E Lockeford Substation and LEU Industrial Substation, to the north of the proposed project alignment, as shown on Figure 4.2-1. It would parallel portions of the existing PG&E Lockeford-Industrial 60 kV Line on the western segment. Most of the eastern portion of the Northern

Route Alternative 230 kV transmission line would be the same as the project. Approximately 1 mile west of PG&E Brighton-Bellota 230 kV Line (approximately 0.25 mile west of North Linn Road), the corridor would turn north and then east on East Sargent Road. The total length of new PG&E 230 kV transmission lines would be approximately 10.39 miles.

Land uses along the alignment include orchard and semiagricultural, wineries, and rural residential clusters mainly on local and county roads with mature vegetation. Similar to the project, the Northern Route Alternative includes one canal crossing (Bear Creek), one highway crossing (SR 88), one railroad crossing, and multiple road crossings. As with the proposed project, this route alternative runs adjacent to the cemetery when entering the City of Lodi and would reuse the western end of PG&E Lockeford-Industrial 60 kV line alignment.

All other components of this alternative would be the same as the project, including:

- PG&E Thurman Switching Station
- LEU Guild Substation
- PG&E and LEU Thurman-Guild 230 kV No. 1 and No. 2 Transmission Lines
- LEU Guild-Industrial 60 kV No. 1 and No. 2 Power Lines
- PG&E 60 kV power lines reconfiguration

In general, construction activities for the Northern Route Alternative would be similar to the project, including the types of equipment to be used in each phase of construction and hours per day that equipment would be used during construction (refer to Chapter 3, Project Description). Substation construction activities would be the same as the proposed project. Construction staging areas, pull-and-tension sites, and access roads were not identified for this alternative, but would be expected to be similar to and at the same scale as the project.

Rationale for Carrying Forward. The Northern Route Alternative would meet the project purpose and all project objectives, and it would be feasible. This alternative was carried forward to compare the project to an alternative that would increase paralleling of existing roadways and power line ROW and decrease paralleling of existing transmission line ROW.

4.2.2.3 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Description. This version of the proposed project was included in the CAISO *2012-2013 Final ISO Transmission* Plan (CAISO 2013). This alternative would include a 230 kV double-circuit transmission line from PG&E Eight Mile Substation to PG&E Lockeford Substation, construction of a new LEU 230 kV bus at LEU Industrial Substation and looping one of the new PG&E Eight Mile/Lockeford 230 kV lines into this bus from an adjacent new PG&E switching station. A combination of potential route options presented at the December 2016 open houses for the 2013 CAISO project is used as the alternative's centerline for comparison purposes. The alternative centerline avoids existing and planned land use constraints and generally is a shorter length than other potential route combinations. Combining the Southern Route Via Industrial and the Central routes to connect the end points creates a total length of new PG&E 230 kV transmission lines of approximately 19.85 miles. Components of this alternative would include the following.

- Construction of a new PG&E Thurman Switching Station and LEU Guild Substation
- Construction of a new 230 kV DCTL between PG&E Eight Mile Substation and PG&E Lockeford Substation with a loop into PG&E Thurman Switching Station
- Expansion of PG&E Eight Mile Substation by approximately 3.38 acres and grade approximately 5.85 acres to connect to the new 230 kV DCTL
- Expansion of approximately 1.5 acres and grading to PG&E Lockeford Substation to connect to the new 230 kV DCTL

- PG&E 60 kV power lines reconfiguration

Rationale for Carrying Forward. The Lockeford-Lodi Area 230 kV Development Alternative would meet the project purpose and most project objectives and would be technically feasible. This alternative was carried forward because it was approved as an earlier version of the project, is the best representative of alternatives considered at that time, and still meets most of the project objectives even if not the current solution identified by CAISO.

4.3 No Project Alternative

Section 15126.6(e) of the CEQA Guidelines requires that the No Project Alternative be considered to allow decision-makers to compare the impacts of approving the proposed project against the impacts of not approving the proposed project. CEQA requires a discussion of what would be reasonably expected to occur in the foreseeable future if the project were not approved.

Under the No Project Alternative, no new infrastructure would be constructed, including the new overhead double-circuit 230 kV transmission lines, new PG&E Thurman Switching Station, new LEU Guild Substation, and other system improvements. There would be no improvements to system reliability and Category P1 and P6 contingency scenarios would not be addressed. PG&E would not meet its legal obligation to implement the CAISO-approved project. The No Project Alternative would not meet project objectives.

The service area would continue to experience overload and high voltage deviation issues that do not meet NERC thermal and voltage performance requirements. When these issues occur, customers in the service area could lose power. The probability of these issues would increase over time, as power demand on the system increases. Energy demand in the northern San Joaquin County area is steadily increasing with residential development, as well as agricultural and industrial growth.

4.4 Rejected Alternatives

This section discusses all alternatives considered by PG&E that were not selected for further analysis. For each alternative, this section provides a brief description of the alternative, a description of why the alternative was rejected, and comments from the public or agencies about the alternative. Table 4.2-1 provides a discussion of the extent to which each alternative would meet project purpose and objectives, its feasibility, its potential to reduce environmental impacts of the project, and any new impacts that could occur with its implementation. Figure 4.4-1 provides a map of the alternative sites where they have been identified.

4.4.1 60 kV Reconductoring

Description. Reconductor the PG&E 60 kV power lines in the study area by replacing existing lines and poles. The lines that would be reconductored include:

- PG&E Lockeford-Industrial 60 kV
- PG&E Industrial Tap 60 kV
- PG&E Lockeford-Lodi No. 2 60 kV
- PG&E Lockeford-Lodi No. 3 60 kV

Rationale for Rejection. This alternative does not meet the project purpose or most objectives. Reconductored PG&E 60 kV lines would not be strong enough to address the voltage and thermal issues and would not accommodate planned growth in the service area.

Public and Agency Comments. Several community stakeholders, including at the July 2019 open house, suggested this alternative to minimize or avoid impacts to agriculture with the construction of a new 230 kV line.

4.4.2 Upgrade PG&E Lockeford-Industrial 60 kV to 115 kV

Description. This alternative would upgrade the existing Lockeford-Industrial 60 kV line between PG&E Lockeford Substation and LEU Industrial Substation. It would replace the existing 60 kV poles and install a new 115 kV line.

Rationale for Rejection. This alternative does not meet the project purpose or most objectives. A 115 kV line would not be strong enough to address the voltage and thermal issues and would not accommodate planned growth in the service area.

Public and Agency Comments. Several community stakeholders, including at the July 2019 open house, suggested this alternative to minimize or avoid impacts to agriculture with the construction of a new 230 kV line.

4.4.3 Undergrounding

Description. This alternative would construct the new 230 kV lines underground along existing roadways. The alternative could not be constructed on agricultural land because it would prevent any use of the land in the ROW. Suggested alignments included East Kettleman Lane and Victor Road/SR 12.

Rationale for Rejection. This alternative is not economically feasible. The construction cost would be an order of magnitude greater than the project or other alternatives that meet most project objectives.

Public and Agency Comments. Community stakeholders, including at the July 2019 open house, suggested this alternative to minimize or avoid impacts to agriculture, wineries, and similar businesses.

4.4.4 Southern Route East

Description. This alternative would route the eastern segment of the new PG&E 230 kV line parallel to the existing PG&E 115 kV line from PG&E Lockeford Substation to East Harney Lane, then turn east along Harney Lane to PG&E Brighton-Bellota 230 kV Line. Other project components would be the same as the proposed project.

Rationale for Rejection. This alternative was rejected for several reasons. Because it would result in a new PG&E double-circuit 230 kV transmission line crossing over multiple other PG&E transmission and power lines near PG&E Lockeford Substation, it would be more constrained during operations and maintenance than the project. It would be more expensive than the project or other alternatives carried forward because of the longer 230 kV line and taller structures required to cross the other existing lines. Existing PG&E distribution and 60 kV lines and residential structures along the edge of the road and center-pivot irrigation agricultural use would prevent the 230 kV line from continuous and adjacent paralleling of the roadway or other lines. Avoiding the constraints by setting the 230 kV line back from the existing lines, structures and center-pivot irrigation reduces the benefits of paralleling and increases the impacts that typically would be avoided or minimized by paralleling. It would result in greater biological impacts than the project because of multiple crossings of wetlands and creeks as well as the longer transmission line.

Public and Agency Comments. No comments were made specifically on this alternative. It was one of the route alignments considered by PG&E in early analysis.

4.4.5 Victor Road/SR 12 Route

Description. This alternative would route the western segment of the new 230 kV line west on East Kettleman Lane from PG&E Lockeford Substation then north along SR 88 to parallel Victor Road/SR 12 toward the City of Lodi. An option for this alternative would follow existing PG&E 60 kV lines north from PG&E Lockeford Substation before turning west along Victor Road/SR 12. The eastern segment of the new 230 kV line and substation components would be the same as the project.

Rationale for Rejection. This alternative was rejected because it is not technically feasible given height restrictions and required width of ROW. Between North Kennison Lane and the UPRR railroad, industrial development on both sides of the road present constraints to height clearance and ROW width requirements. Additionally, at the Town of Victor (between Cherry Road and North Locust Tree Road), there is not enough height or width clearance for a new 230 kV line because of existing industrial developments on the north side and residential developments on the south side of Victor Road.

In addition, there would be constraints to connect the line from Victor Road to PG&E Lockeford Substation, with possible routes including Tretheway Road, Fox Road, and the existing PG&E Lockeford-Industrial 60 kV line along a farm road (between Tretheway Road and North Locust Tree Road). Along these routes, a potential 230 kV line would be in very close proximity to residences, especially the cluster of residences on both sides of the route south of SR 12 at Tretheway Road and Fox Road. The distances from the potential 230 kV line and residences would be less than the widths required for a 230 kV line ROW.

Public and Agency Comments. Community stakeholders, including at the July 2019 open house, suggested that roadways be paralleled for the new 230 kV lines to minimize or avoid impacts to agriculture, wineries, and similar businesses. Agriculture was described as Lodi's economic engine and should be protected. Victor Road/SR 12, as one of the larger east-west roads in the study area, was identified by multiple stakeholders as a potential corridor.

4.4.6 East Kettleman Lane Route

Description. This alternative would route the new 230 kV line along East Kettleman Lane from PG&E Brighton-Bellota 230 kV Line to just west of North Curry Avenue, where it would follow the project alignment north to LEU Industrial Substation. Substation components would be the same as the project.

Rationale for Rejection. This alternative was rejected because it is not technically feasible. There is not enough clearance to accommodate height restrictions or ROW width requirements for a new 230 kV line paralleling East Kettleman Lane.

Public and Agency Comments. Community stakeholders, including at the July 2019 open house, suggested that roadways be paralleled for the new 230 kV lines to minimize or avoid impacts to agriculture, wineries, and similar businesses. East Kettleman Lane, as one of the larger east-west roads in the study area, was identified by multiple stakeholders as a potential corridor. Others noted that East Kettleman Lane contains wine-related business that would be impacted by this route and hurt the appeal of wedding businesses, wine-tasting fundraisers, and other tourist-oriented activities. Several residents on East Kettleman Lane east of PG&E Lockeford Substation noted that they already have three transmission or power lines and associated towers on or near their properties.

4.4.7 Use Existing 60 kV ROW

Description. This alternative would route the new 230 kV lines using an existing PG&E 60 kV power line ROW. This would be done either by constructing a new 230 kV line parallel to the existing 60 kV line, removing the 60 kV line to construct the new 230 kV line, or by placing both the 60 kV and 230 kV lines on the same structures (underbuild). Substation components would be the same as the project. Possible 60 kV line routes include PG&E Lockeford-Industrial 60 kV, PG&E Lockeford-Lodi No. 2 60 kV, PG&E Lockeford-Lodi No. 3 60 kV, and PG&E Industrial Tap 60 kV.

Rationale for Rejection. This alternative was rejected because it is not technically feasible. Each existing PG&E 60 kV power line has large portions with insufficient ROW to accommodate the required ROW for a double-circuit 230 kV line. Proximity to roads, existing structures, and mature vegetation constrain expansion of 60 kV ROW. Avoiding the constraints by setting the 230 kV line back from the existing 60 kV line reduces the benefits of paralleling and increases the impacts that typically would be avoided or minimized by paralleling. Crossing back and forth across roads to achieve the required ROW clearance could be done but would result in a non-typical 230 kV line, because engineering would not recommend

that a line zigzags unless all other alternatives are infeasible. It also could significantly increase the height and number of structures required, increasing impacts and cost. Specific issues include the following.

- PG&E Lockeford-Industrial 60 kV to East Sargent Road Constraint (between Tecklenberg Road and North Curry Avenue). The majority of this PG&E line could be paralleled by a new 230 kV line by setting the new structures in fields adjacent to the 60 kV alignment. Where residential structures are located on both sides of East Sargent Road between Tecklenberg Road and North Curry Avenue, the existing 60 kV ROW mainly uses franchise rights, which are unlikely to also accommodate an adjacent 230 kV line. Routing a 230 kV line here would require a ROW width of at least 80 to 100 feet, but because the existing 60 kV ROW does not accommodate that width, the new 230 kV line would have to be engineered to zigzag across East Sargent Road. A new 230 kV line with 60 kV underbuild could be accommodated if structures were tall enough and a 60 kV shoofly was used during construction. The new tall 230 kV line segment with 60 kV underbuild would pass within approximately 40 to 50 feet of some of the residences and span several residential driveways. Zigzagging the line across East Sargent Road would be required to achieve adequate ROW clearance and would result in greater impacts to the residences on this section of East Sargent Road because of the shorter span length with increased angle pole height and width required; each crossing of the road requires a pole at each end. Routing under this method would result in a nontypical 230 kV line, because engineering would not recommend that a line zigzags with 60 kV underbuild unless all other alternatives are infeasible.
- PG&E Industrial Tap 60 kV to Victor Road. The northern approximately 0.5 mile of the existing PG&E Industrial Tap 60 kV line would likely accommodate a parallel 230 kV line to the west. The final approximately 0.42 mile is constrained by a cemetery and East Lodi Avenue to the north and railroad tracks to the south. These constraints on the west end of the line do not allow for sufficient double-circuit 230 kV line ROW.
- PGE Lockeford-Lodi No. 3 60 kV. This route does not contain enough ROW width at the residential structures east of Bear Creek. Additionally, along East Harney Lane between SR 88 and SR 99, there are numerous residences, wineries, and industrial structures located on both north and south sides of the road. Because residences are located on both sides of East Harney Lane, the existing ROW crossing back and forth across the roadway and the existing ROW is mainly within franchise rights, which will not accommodate the width needed for a double-circuit 230 kV line with the existing 60 kV line. Routing a 230 kV line here would require a ROW width of at least 80 to 100 feet, but because the existing ROW does not accommodate that width, the new 230 kV line would have to be engineered to zigzag across East Harney Lane. As noted previously, zigzagging the line would result in greater potential impacts to the residences on East Harney Lane because of the increase in poles required; each crossing of the road requires a taller pole at each end. Avoiding the constraints by setting the 230 kV line back from the existing lines and structures reduces the benefits of paralleling and increases the impacts that typically would be avoided or minimized by paralleling. Routing under this method would result in a nontypical 230 kV line, because engineering would not recommend that a line zigzags unless all other alternatives are infeasible.
- PG&E Lockeford-Lodi No. 2 60 kV. This route parallels PG&E Sutter Home SW Sta to Lockeford-Lodi 60kV line from PG&E Lockeford Station to approximately 860 feet north of SR 12, where it splits from PG&E Sutter 60 kV line. Paralleling this route would result in an additional 80 to 100 feet width of ROW for a new 230kV line for approximately 1.7 miles of the route, in addition to the existing ROW for the two existing 60 kV lines. The northern portion of the route would result in a significant number of water crossings of the Mokelumne River, potentially up to nine river crossings. Paralleling this route could result in significant biological and riparian habitat impacts that would not occur with other alternatives.

For safety and reliability reasons, putting both lines on the same structures (underbuild) is not preferred, even if there were sufficient ROW. Multiple circuits on a line limit operations flexibility because all circuits on a line need to be taken offline for maintenance. Additionally, three circuits on a structure creates a single point of failure for all circuits and is a nonstandard design.

Public and Agency Comments. Community stakeholders, including at the July 2019 open house, suggested that the existing PG&E 60 kV power line ROW be used or paralleled for the new PG&E 230 kV lines to minimize or avoid impacts to agriculture, wineries, and similar businesses. Agriculture was described as Lodi's economic engine and should be protected. It should be noted that suggestions were also made to place the new PG&E 230 kV lines on an existing 60 kV alignment using existing poles. However, there are no "empty" areas or framing on existing structures to locate new lines. Additionally, existing structures are not designed to support the weight of 230 kV lines and are not tall enough to achieve the required vertical clearance to ground. The existing PG&E 60 kV lines cannot be taken out of service for more than approximately 4 to 5 months annually when the project service area load requirements can be supported with one PG&E 60 kV line offline. This is an insufficient period of time to remove a 60 kV line, construct a new double-circuit 230 kV line, and place the new 230 kV source into service. In addition, multiple circuits on a line can impact operations because all circuits on a line need to be taken offline for maintenance. Use of an existing 60 kV line was not evaluated as an alternative.

4.4.8 BESS (Battery Energy Storage Solution) Only

Description. This alternative would install two blocks of 50-MW batteries and a new PG&E 60 kV switching substation at LEU Industrial Substation. No changes or additions to power or transmission lines would be included.

Rationale for Rejection. This alternative was rejected because it would not meet project purpose and most objectives, including mitigating thermal overloads and meeting PG&E's legal obligations. The batteries cannot be charged enough to meet peak demand and address the overloads under the NERC P1 category contingency.

Public and Agency Comments. CAISO received this as a non-participating transmission owner submittal regarding Lockeford-Lodi area reliability issues, as listed in the 2017-2018 CAISO Transmission Plan. In 2017, CAISO evaluated the NEER – Lodi 40 MW BESS Project as an alternative and determined that it would address thermal overloads but there were other lower-cost alternatives. This alternative was requested to be reconsidered by CPUC.

4.4.9 Hybrid BESS

Description. PG&E considered whether reconductoring existing PG&E 60 kV lines and installing a BESS would be a feasible project alternative. Specific components of this alternative included the following:

- Two blocks of 40 MW BESS at LEU Industrial Substation
- A new PG&E 60 kV switching substation for BESS interconnection to LEU Industrial Substation
- Acquisition of approximately 4 acres of land at LEU Industrial Substation
- New PG&E 230 kV transmission line (approximately 3.8 miles long) to connect the existing PG&E Brighton-Bellota 230 kV Line to PG&E Lockeford 230 kV Substation; the alignment would be the same as the project
- Reconductor approximately 13.67 miles of PG&E 60 kV Lines with new poles and some switches
- Replace limiting terminal equipment at PG&E Lockeford and PG&E Lodi substations

Rationale for Rejection. The BESS Hybrid Alternative would not meet key project objectives, including mitigating thermal overloads and meeting PG&E's legal obligations. The system would require further upgrades within approximately 10 years. The battery would be built by a third party selected by CAISO with unknown cost. The dependency between the PG&E 60 kV line reconductoring and the battery development which a third party would lead, creates uncertainty with the in-service timing of both Hybrid BESS Alternative components to address the NERC P1 category contingency. For example, if the PG&E 60 kV line reconductoring completed before the battery was installed PG&E Lockeford-Lodi 60 kV system would still have thermal overloads risk under the NERC P1 category contingencies.

Public and Agency Comments. This alternative was requested to be considered by CPUC.

4.4.10 Distribution Energy Resources Improvement

Description. This alternative would implement improvements to reduce electrical system demand (such as distributed generation, energy efficiency, and demand response).

Rationale for Rejection. This alternative was rejected because it would not meet the project purpose and objectives. It is not technically feasible to reduce electrical system demand sufficiently to meet project objectives.

Public and Agency Comments. Community stakeholders, including at the July 2019 open house, suggested that PG&E pursue alternatives such as solar and batteries to avoid new transmission lines.

4.4.11 Other Suggestions Regarding Alternatives

In addition to some of the alternatives discussed previously (East Kettleman Lane and Victor Road/SR 12), community stakeholders suggested use of other existing roadways as routing alternatives for a new PG&E 230 kV transmission line. The suggested roadways represent only a small portion of the overall needed alignment and not a full alternative, so by themselves were not considered as individual alternatives. In addition, existing structures and biological resources would constrain the space needed for a continuous ROW along these roads and use of these roads would substantially increase the length of the transmission line, result in greater impacts, and be infeasible to construct. Nevertheless, PG&E considered these roadways during its initial development of complete routing alternatives.

Community-suggested roadways include the following:

- North Jack Tone Road, which runs north-south through the project area to the east of PG&E Lockeford Substation
- East Harney Lane, which runs east-west in the study area between SR 99 and PG&E Brighton-Bellota 230 kV Line
- East Turner Road, which runs east-west on the north side of the City of Lodi, west of North Guild Avenue
- East Sargent Road, which runs east of the railroad tracks near SR 99 for approximately 0.63 mile, and is again a paved road for approximately 2.5 miles between Jack Tone Road and North Linn Road
- Live Oak Road/East Live Oak Road, which in the study area runs east-west between SR 99 and North Tully Road
- North Furry Road, which in the study area runs north-south to the east of SR 99 between East Hogan Lane and Live Oak Road
- Newfield Road, which in the study area is a nonpublic roadway that runs east-west just north of East Kettleman Lane between Alpine Road and North Tretheway Road

Several community members proposed to LEU three alternative routes between LEU Industrial Substation and PG&E Lockeford Substation. One of these three alignments is generally the same as the western component for the Central Alternative (refer to Section 4.2.2.1) and the Northern Alternative (refer to Section 4.2.2.2), both of which were carried forward for consideration. Each of the other two routes includes a large portion along one of two alignments that were rejected for reasons discussed previously: Victor Road/SR 12 (refer to Section 4.4.5) and existing 60 kV ROW (refer to Section 4.4.7). Other portions of these two routes cross areas that were not identified as being compatible with siting objectives.

5 Environmental Analysis

The following sections provide an assessment of environmental impacts anticipated from construction, operation, and maintenance of the Northern San Joaquin 230 kilovolt Transmission Project. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The environmental impacts are evaluated for the following resource areas, consistent with the requirements of CEQA:

1. Aesthetics
2. Agriculture and Forestry Resources
3. Air Quality
4. Biological Resources
5. Cultural Resources
6. Energy
7. Geology, Soils, and Paleontological Resources
8. Greenhouse Gas Emissions
9. Hazards, Hazardous Materials, and Public Safety
10. Hydrology and Water Quality
11. Land Use and Planning
12. Mineral Resources
13. Noise
14. Population and Housing
15. Public Services
16. Recreation
17. Transportation
18. Tribal Cultural Resources
19. Utilities and Service Systems
20. Wildfire
21. Mandatory Findings of Significance

Sections 5.1 through 5.21 present the environmental impact analysis for each resource area evaluated for the project. A checklist is provided in each section to summarize the anticipated level of impact (No Impact, Less-than-Significant Impact, Less-than-Significant Impact with Mitigation Incorporated, and Potentially Significant Impact) to each resource area, according to CEQA significance criteria. Each section addresses analysis methodology and environmental setting, applicable regulations, impact questions, applicant-proposed measures and best management practices to avoid or minimize potential impacts, and potential impacts.

With respect to PG&E, because the CPUC has exclusive jurisdiction over the siting, design, and construction of the project, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs that have special air quality and hazardous waste regulations. A summary of local standards and ordinances pertaining to the resources within the project area is provided for informational purposes and to assist with the CEQA review process in each section.

The City of Lodi is a local agency and must comply with its own local plans and policies for LEU's portion of the project. The City of Lodi intends to rely on the CEQA document (anticipated to be a Final Environmental Impact Report) prepared by the CPUC to comply with CEQA before undertaking any discretionary actions it needs to construct LEU Guild Substation and carry out related work on its 60 kV system. Although LEU is not subject to CPUC jurisdiction, LEU intends to implement the mitigation measures identified in the CPUC's CEQA document that apply to the LEU portion of the project.

The analysis concludes that, overall, impacts will be less than significant. The implementation of APMs and BMPs will further avoid or minimize impacts on environmental resources, ensuring that any remaining impacts will be less than significant.

5.1 Aesthetics

This section describes existing conditions and potential impacts on aesthetics/visual resources as a result of construction, operation, and maintenance of the project. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The analysis concludes that impacts on aesthetic resources will be less than significant; the measures described in Section 5.1.4.2 will further reduce the project's less-than-significant impacts on aesthetic resources. The project's potential effects on aesthetic resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.1-2 and discussed in more detail in Section 5.1.4.

5.1.1 Methodology and Environmental Setting

The visual analysis is based on review of technical data, including project maps and drawings provided by PG&E and LEU, aerial and ground-level photographs of the project area, local planning documents, and computer-generated visual simulations. Field observations were conducted in March, April, and July 2021 to document existing visual conditions in the project area and to identify potentially affected sensitive viewing locations.

This visual study employs assessment methods based, in part, on guidance from the Federal Highway Administration (FHWA) and other accepted visual analysis techniques. This study also addresses the CEQA Guidelines for visual impact analysis. Systematic documentation of the visual setting and an evaluation of visual changes associated with the project are provided. To convey a sense of existing visual conditions, photographs are included that show representative public views of the project area.

Consistent with FHWA methods, this impact analysis describes change to existing visual resources and assesses viewer response to that change. Central to this assessment is an evaluation of representative views from which the project will be visible to the public. Four key representative public viewpoints or Key Observation Points (KOPs) have been selected to represent viewing locations where the project could be most visible to the public. To document the visual change that will occur, visual simulations, presented as before and after images, show the project from these KOPs. Note that no landscaping is proposed as part of the project and no simulations are provided showing landscape vegetation establishment. Section 5.1.4.5 contains a description of the technical methods employed for digital site photography and to produce the Proponent's Environmental Assessment (PEA) visual simulations. Section 5.1.4.6 includes additional description of methods employed for evaluating visual change. The visual impact assessment is based on evaluation of the changes to the existing visual resources that will result from construction and operation of the project. These changes were assessed, in part, by evaluating the KOP after views provided by the computer-generated visual simulations and comparing them to the existing visual environment.

5.1.1.1 Landscape Setting

The project is situated at the north end of Central California's San Joaquin Valley, an area bordered by the Sierra Nevada foothills on the east and the inner Central Coast Range on the west. Figure 5.1-1a shows the project location within a regional and local landscape context. Located in San Joaquin County near the confluence of the Sacramento River to the north and the San Joaquin River to the south that drain the western flank of the Sierra Nevada mountains, the regional landscape includes a complex network of water conveyance and flood control infrastructure, as well as large riparian areas that connect the San Joaquin Valley with the San Francisco Bay to the west. The proposed PG&E Northern San Joaquin 230 kV Transmission Project consists of an approximately 10.6-mile-long PG&E transmission corridor extending the existing PG&E Brighton-Bellota 230 kV transmission line with the proposed PG&E Thurman Switching Station, proposed LEU Guild Substation, and existing LEU Industrial Substation located within the City of Lodi. Modifications of three existing PG&E 60 kV lines within their alignments will occur within Lodi. The project area is bordered by the Mokelumne River to the north, and Bear Creek and the Calaveras River to the south. Gently undulating grassland near the project's eastern margin gives way to the low-lying,

largely flat former floodplain of the Mokelumne River to the west. Elevations range from approximately 135 feet above sea level where the project intersects the PG&E Brighton-Bellota 230 kV transmission line to approximately 60 feet above sea level at LEU's Industrial Substation within the City of Lodi.

The northern San Joaquin Valley landscape generally reflects a high level of human modification that includes vast areas of agricultural land and important population centers such as Stockton, located approximately 12 miles to the south of the project. Smaller semirural and suburban communities located closer to the project include the community of Lockeford, with a population of approximately 3,400, located approximately 3 miles northeast of the project, while approximately 4 miles to the south is the Town of Morada, with a population of approximately 3,800. With a population of approximately 62,000, the City of Lodi is the largest urban center in the immediate project area. Major north-south transportation corridors that provide links between cities and smaller communities within the region include Interstate 5 (I-5), located approximately 8 miles to the west of the project's terminus in Lodi, and SR 99, which skirts the eastern edge of Lodi approximately 0.3 mile from the proposed PG&E Thurman Switching Station. Regional highways passing through or near the project area connecting local communities with coastal population centers to the west as well as with recreation destinations in the Sierra Nevada mountains to the east include SR 12 to the north and SR 88, which is crossed by the new PG&E 230 kV transmission line approximately 3.8 miles east of Lodi. Additionally, a grid of local paved and unpaved rural roadways traverses the area, several of which cross or closely parallel the new 230 kV double-circuit line; local roads include East Kettleman Lane, East Harney Lane, Clements Road, and North Jack Tone Road, the latter two being County-designated scenic routes. Within the project area, other established built landscape features include irrigation canals, railroad corridors, and agricultural processing facilities. Throughout the project area, electric utility structures, including substations and overhead power lines, are established landscape features. Figure 5.1-1a shows locations of existing power and transmission lines in the immediate vicinity.

Vegetation in the project vicinity includes agricultural crops – primarily vineyards, orchards, and forage cropland – as well as grassland and riparian corridors. Scattered stands of mature trees, both native and introduced, also are characteristic visual features seen throughout the project area, lining many of the area roadways and surrounding most residences. Although predominantly agricultural, land use immediately north and south of the project corridor includes residential parcels. Within the eastern part of the project area, residences generally consist of isolated rural houses with associated farm buildings surrounded by fields. Near Lodi to the west, houses are more numerous and are largely found along well-traveled public roadways. At the western edge of the project alignment at the proposed PG&E Thurman Switching Station, the existing LEU Industrial Substation, and new proposed LEU Guild Substation, vegetation is limited, consisting primarily of isolated tree stands and ornamental landscaping near industrial uses.

5.1.1.2 Scenic Resources

Scenic resources are those natural and built landscape patterns and features that are considered visually or aesthetically pleasing and, therefore, contribute positively to the definition of a distinct community or region. Because of the predominantly flat terrain and prevailing poor visibility, scenic resources in the project area generally are limited to near- and medium-range viewpoints available within public recreation areas within the City of Lodi and from several public roadways. The foothills of the Sierra Nevada mountains begin to rise approximately 6 to 8 miles east of the project connection with the PG&E Brighton-Bellota 230 kV transmission corridor and occasionally they can be seen from some locations within the project vicinity during winter months; however, views of the mountains are largely obscured by atmospheric haze that persists in the area throughout much of the year. The Mokelumne River defines the northern perimeter of the City of Lodi, extending east between approximately 1 and 2.5 miles north of the PG&E 230 kV corridor as shown on Figure 5.1-1a. Public recreation areas in the project vicinity are concentrated along the river; however, because of a combination of distance and intervening vegetation and structures, the project would not be seen from locations along the Mokelumne River. Several San Joaquin County designated- scenic routes are found at varying distances from the project area; these include portions of SR 12 and SR 88, as well as North Jack Tone Road and Liberty Road (Clements Road). SR 88, approximately 4 miles south of its scenic designation, and North Jack Tone Road both are crossed by the new PG&E 230 kV line.

5.1.1.3 Viewshed Analysis

A project viewshed is defined as the general area from which a project is visible. For purposes of describing a project's visual setting and assessing potential visual impacts, the viewshed can be broken down into foreground, middleground, and background zones. The foreground is defined as the zone within 0.25 mile to 0.5 mile of the viewer; the middleground is defined as the zone that extends from the foreground to a maximum of 3 to 5 miles from the viewer; and the background zone extends from the middleground to infinity (U.S. Department of Transportation 2015). Viewing distance is a key factor that affects the potential degree of project visibility. Visual details generally become apparent to the viewer when they are observed in the foreground, at a distance of 0.25 mile to 0.5 mile or less.

Figure 5.1-1b shows the potential visibility of PG&E and LEU project elements from a distance of up to 5 miles from the project corridor. A delineation of the area within 0.5 mile from the project also is shown. Because of the relatively flat terrain in the project area, the viewshed map demonstrates that, based on the topography, project structures could be visible from most of the surrounding area. While topography generally does not play a significant role in inhibiting visibility of built elements in the project area landscape, intervening structures, consisting mainly of rural and suburban residences and farm utility buildings, typically are surrounded by stands of tall trees, which – along with the preponderance of orchards and vineyards in many locations – constrains distant views across the landscape. Additionally, the presence of persistent temperature inversions, which prevents the dispersion of atmospheric pollutants within the valley environment, results in generally poor visibility within the project area for much of the year and, for the most part, this limits visual details to short-range perspectives. Accordingly, the primary focus of the visual analysis included in this PEA is the foreground viewshed zone, where project-related visual effects would be most apparent, particularly those areas within 0.5 mile of project elements.

5.1.1.4 Landscape Units

For purposes of documenting and describing the project's foreground viewshed, three subareas or landscape units with distinguishing land use and development patterns have been identified and are shown on Figure 5.1-1a. Landscape Unit 1 encompasses the eastern segment of the project area, extending approximately 3.8 miles west from the PG&E Brighton-Bellota transmission corridor to PG&E's Lockeford Substation, where an existing PG&E 230 kV transmission ROW passes through a largely open landscape dominated by low-growing forage cropland, vineyards, and scattered orchards with widely dispersed homesteads. The project would closely parallel the existing PG&E transmission ROW, located between approximately 760 and 1,600 feet north of East Kettleman Lane. Photographs 1 through 6 on Figures 5.1-2a through 5.1-2b show representative views of the project and surrounding landscape character found within Landscape Unit 1. One of these views is a KOP selected for visual simulation to show the project as seen from North Jack Tone Road, a County-designated scenic roadway.

Landscape Unit 2 extends approximately 6.8 miles in a generally westerly direction from PG&E Lockeford Substation to the eastern perimeter of the City of Lodi. Compared with Landscape Unit 1, this area is characterized by a more-diverse mix of land uses and a greater prevalence of built landscape features, including commercial wineries, and a greater concentration of rural and suburban residences. Electrical infrastructure in this landscape unit generally is dispersed, consisting of wood utility poles supporting numerous power and distribution lines. Additionally, a denser network of public roadways, with an associated greater volume of vehicular traffic, characterizes Landscape Unit 2. Photographs 7 through 16 on Figures 5.1-2c through 5.1-2f show representative views of the project and surrounding landscape character found within Landscape Unit 2. Two of these views are KOPs selected for visual simulations to show the project as seen from sensitive locations, including a commercial winery.

Landscape Unit 3 encompasses the area surrounding the existing LEU Industrial Substation, proposed LEU Guild Substation, proposed PG&E Thurman Switching Station, the western terminus of the proposed PG&E 230 kV transmission line, and three PG&E 60 kV power lines that will be reconfigured as part of the project. Situated in an industrial-zoned district within the eastern perimeter of the City of Lodi, this area consists predominantly of agricultural processing, warehousing, and transportation facilities, including

railway infrastructure. Representative views of this landscape unit are illustrated in Photographs 17 and 18 on Figure 5.1-2f and include a KOP selected for visual simulation of the proposed substation, switching station, and adjacent project transmission and communication structures.

5.1.1.5 Viewers and Viewer Sensitivity

Accepted visual assessment methods, including those adopted by the FHWA, establish sensitivity levels as a measure of public concern for changes to scenic quality. Viewer sensitivity, one of the criteria for evaluating visual impact significance, can be divided into high, moderate, and low categories. Factors considered in assigning a sensitivity level include viewer activity, view duration, viewing distance, adjacent land use, and special management or planning designation. According to the FHWA's *Visual Impact Assessment for Highway Projects* (FHWA 2015), research on the subject suggests that certain activities tend to heighten viewer awareness of visual and scenic resources, while others tend to be distracting. The project viewshed includes several types of concerned viewer groups, primarily motorists and recreationalists, specifically visitors to area wineries, as well as residents and agricultural workers.

Motorists, the largest viewer group, include people traveling on local public roadways relatively close to or crossing the project alignment. In the eastern part of the project area (Landscape Unit 1), this includes East Kettleman Lane, an arterial roadway that crosses the project route near PG&E Lockeford Substation and continues parallel to the general project trajectory approximately 0.25 mile to the south to near the project's eastern terminus. Clements Road and North Jack Tone Road, both County-designated scenic roadways, extend north of East Kettleman Lane and cross or pass within close proximity to the project. In the area within and around Lodi (Landscape Unit 3), motorists with potential views of the project include those passing along South Guild Avenue and East Thurman Road near the proposed PG&E Thurman Switching Station, existing PG&E 60 kV lines, proposed PG&E 230 kV line, LEU Guild Substation, and LEU Industrial Substation in Lodi's industrial district, as well as those on East Kettleman Lane east of the SR 99 corridor crossed by the project route. In Landscape Unit 2, East Kettleman Lane passes within approximately 0.25 and approximately 0.5 mile north of the project as it continues east of Lodi, where it eventually intersects SR 88, an important regional highway that crosses the project area. Traffic volume varies on these roads, ranging from the comparatively heavily traveled SR 88, an important regional link between the Central Valley and resort destinations to the east, to the lightly traveled local roadways that provide access to surrounding agricultural, industrial, and residential areas. Motorists consist mainly of local commuters who are familiar with the visual setting, as well as regional travelers using the roads less regularly. Roadway views generally are brief in duration, with SR 88 and East Kettleman Lane posting speed limits of 45 and 55 miles per hour (mph), respectively. In many of these locations, motorists' views are screened by roadside vegetation that includes orchards, vineyards, and stands of mature trees. Sensitivity of this viewer group is considered low to moderate.

Recreational visitors to the commercial wineries comprise another potentially important viewer group. Known as a wine-producing region, the area around Lodi attracts recreational visitors from the Central Valley and beyond. Wineries typically are located on rural residential properties adjacent to vineyards and production facilities; some with tasting rooms include outdoor terraces with seating, where comparatively open landscape views are available. Three wineries are situated within 0.5 mile of the project corridor and visitors may see portions of the new PG&E transmission line from some outdoor locations at winery tasting rooms. Tourism related to wine tasting is highly seasonal, with peak visitation in the fall and spring. Views tend to be brief or moderate in duration, and the sensitivity of this viewer group is considered moderate to high. In addition, recreational visitors to Black Diamond Mines Regional Preserve and Mount Diablo State Park may have limited views of modifications to the existing PG&E Clayton Hill Repeater Station south tower from a distance of greater than 0.25 mile (EBRPD 2020; Mount Diablo State Park 2018).

Another viewer group consists of residents situated near the project route. This viewer group includes inhabitants of suburban and semirural properties located along North Curry Avenue, Alpine Road, East Kettleman Lane, and East Harney Lane in the area between Lodi and SR 88, as well as a more limited number of rural residents living in areas of agricultural land crossed by the project east of

Lockeford Substation. As described in Section 5.1.1.1, mature trees and other vegetation on residential properties provide a measure of screening at these locations. Residential views tend to be long in duration, and the sensitivity of this viewer group is considered moderate to high.

Agricultural workers along most of the project route and industrial workers near the western end of the project in Lodi are another viewer group. Agriculture is the predominant land use within the project area, consisting primarily of vineyards, nut and fruit orchards, and open forage cropland. Permanent and seasonal workers may be in close proximity to the project route. Their views tend to be brief or moderate in duration, and the sensitivity of this viewer group is considered low to moderate.

5.1.1.6 Representative Viewpoints

Eighteen representative viewpoints have been identified for the project. Table 5.1-1, a summary of this set of representative viewpoints and photographs, includes information on the viewpoint location, primary type of viewers, approximate viewing distance to the project, and a description of the existing visual conditions. In addition, the table also highlights a subset of the photographs that are KOPs selected for visual simulations. Figures 5.1-2a through 5.1-2f includes six sheets showing a photograph taken from each of the KOPs. Taken together, these photographs convey a general sense of the existing visual character of the landscape within the vicinity of the project.

5.1.1.1 Representative Photographs

Figures 5.1-2a through 5.1-2f present a set of 18 photographs taken from representative viewpoint locations along the alignment within the project viewshed. Detailed location coordinate data and other information is included in Appendix A2 with the figures.

5.1.1.7 Visual Resource Management Areas

No Visual Resource Management Areas are applicable to the project.

5.1.2 Regulatory Setting

5.1.2.1 Federal

No federal regulations related to aesthetic or visual resources are applicable to the project.

5.1.2.2 State

California Scenic Highway Program

The California Scenic Highway Program, a provision of the Streets and Highways Code, was established by the State Legislature in 1963 to preserve and enhance the natural beauty of California. The California Scenic Highway Program includes highways that are either eligible for designation as scenic highways or have been designated as such. The status of a state scenic highway changes from eligible to officially designated when the local jurisdiction adopts a scenic corridor protection program, applies to Caltrans for scenic highway approval, and receives the designation from Caltrans (Caltrans 2022). A city or county may propose to add routes with outstanding scenic elements to the list of eligible highways; however, state legislation is required for a highway to be officially designated. A review of the California Scenic Highway Program indicates that the project is not visible from a designated or eligible state scenic highway. SR 160, the closest designated (or eligible) state scenic highway, is located more than 17 miles west of the project terminus at LEU Industrial Substation. The project is not visible from this roadway.

Table 5.1-1. Summary of Representative Viewpoints and Photographs

Viewpoint Number, Location, and Viewing Direction (* denotes KOP)	Primary Viewers	Approximate Viewing Distance to Project	Existing Visual Conditions
Landscape Unit 1			
1. Clements Road looking southwest toward eastern end of project	Local motorists, nearby residents, and agricultural workers	3,274 feet (0.62 mile)	In this open view from a County-designated scenic roadway toward the eastern end of the project, an expanse of vineyard grapevines dominates the foreground, and stands of mature trees surrounding isolated rural residences are visible in the distance. Along the horizon, existing lattice towers of the PG&E Rio Oso-Lockeford and PG&E Lockeford-Bellota 230 kV transmission line junction and PG&E Brighton-Bellota transmission lines can be seen silhouetted against open sky.
2. North Linn Road near East Kettleman Lane looking west	Local motorists and nearby residents	1,540 feet (0.29 mile)	This view across an open pasture and vineyard shows multiple existing lattice transmission towers silhouetted against the sky; the towers are part of the existing PG&E Rio Oso-Lockeford-Bellota 230 kV alignment that closely parallels the proposed project route. Mature trees in close proximity to widely scattered residences and farm utility buildings partially screen open views toward the existing and proposed alignments.
3. Smith Road at North Jory Road looking southwest	Local motorists, nearby residents, and agricultural workers	525 feet	In this close-range view from a local farm road approximately 0.25 mile north of East Kettleman Lane, existing lattice towers and conductors of the PG&E DCTL (Rio Oso-Lockeford and Lockeford-Bellota) are prominent against the sky where the alignment crosses a vineyard in the foreground. Dense mature trees situated along East Kettleman Lane largely screen a nearby residence and utility buildings, while a rail fence and metal post-mounted mailbox along the roadside are in the immediate foreground.
4. East Kettleman Lane at North Tully Road looking northeast	Local motorists	925 feet	This view from a well-traveled public roadway shows characteristic landscape at the eastern margin of the project area. Scattered vertical stands of mature trees surrounding isolated residences punctuate the open vista of flat, expansive fields, and lattice towers of the existing PG&E DCTL (Rio Oso-Lockeford and Lockeford-Bellota) can be seen against the sky. On exceptionally clear days, as illustrated in this photograph, a distant profile of the Sierra Nevada foothills can be seen.
5. North Jack Tone Road near East Kettleman Lane looking south*	Local and regional motorists, nearby residents, and agricultural workers	460 feet	This close-range southbound motorist's view from a County-designated scenic road shows a rural agricultural landscape with irrigated covered row crops and adjacent open pasture, as well as roadside drainage canals and fences, and several farm utility buildings with accessory structures, which are partially screened by roadside vegetation. Multiple existing transmission lines situated in close proximity to the proposed project route cross the roadway. Lattice steel towers as well as an array of wood utility poles are seen on the right side of the road. Together with numerous intersecting overhead conductors, these built features are noticeable against the light sky backdrop.

Viewpoint Number, Location, and Viewing Direction (* denotes KOP)	Primary Viewers	Approximate Viewing Distance to Project	Existing Visual Conditions
6. East Kettleman Lane near Lockeford Substation looking northwest	Local and regional motorists, nearby residents	885 feet	This view shows PG&E Lockeford Substation as seen by westbound motorists and nearby residents along East Kettleman Lane. The PG&E DCTL (Rio Oso-Lockeford and Lockeford-Bellota) lattice steel tower is in the right of the view. Prominent foreground elements include overhead conductors supported by an array of wood utility poles that parallel the roadway, along with lattice towers supporting existing overhead transmission lines. Portions of the substation facility are visible against the sky; however, views toward the substation are partially screened by intervening elements, including a red agricultural storage building, a dense stand of trees along the roadway, and several utility buildings.
Landscape Unit 2			
1. SR 88 looking south	Regional and local motorists, nearby residents, and agricultural workers	580 feet	This is a close-range view toward the proposed project route crossing from a well-traveled roadway carrying motorists, including local and regional recreational travelers. Vineyards and orchards are visible along both sides of the roadway; in the immediate foreground, chain link fencing, a horse farm, and a farm equipment storage yard are visible on the right. Also on the right are several widely scattered rural residences facing this segment of highway, as well as a commercial winery that is accessible to the public. On the left side of the roadway, wood utility poles supporting multiple overhead lines are noticeable against the sky in the foreground.
2. Intercoastal Vineyard at SR 88 looking north	Regional and local recreationalists and nearby residents	1,380 feet (0.26 mile)	This view toward the project crossing of SR 88 is from a publicly accessible outdoor terrace at a commercial winery facing SR 88. Beyond the vineyard seen in the foreground, vehicles traveling on the highway are visible, along with a residence and farm utility buildings, although these are partially screened by vegetation. On the right near the edge of the outdoor terrace is a lawn area with immature, conical-shaped conifer trees; the trees partially screen a wood utility pole, visible in the foreground to the right, as well as distant views of landscape features across the highway.
3. Harmony Wynelands winery near East Harney Lane looking north	Regional and local recreationalists and agricultural workers	1,620 feet (0.31 mile)	This view toward the project from an outdoor terrace of a commercial winery accessible to the public shows a cluster of brightly colored umbrellas and informal seating in the immediate foreground. Dense landscaping at the edge of the terrace largely screens views of an expanse of vineyard beyond. Stands of mature trees, residences, and utility poles along East Kettleman Lane are partially visible on the horizon at a distance of approximately 0.75 mile.
4. North Alpine Road looking north	Local and regional motorists and nearby residents	500 feet	This is a close-range view toward the project crossing from a lightly traveled public roadway, as well as that seen from the adjacent residence located less than 0.25 mile from the proposed project. Next to a wood utility pole seen immediately on the right is a residence surrounded by a fence and mature landscaping. Overhead utility lines cross the roadway in the foreground and wood utility poles line the left side of road, while additional poles are visible along the horizon on the left. In the center of the view, beyond the agricultural storage building, a residence is partially screened by stands of mature vegetation and trees line the roadway in the distance. On the right, another nearby residence is partially surrounded by vineyard grapevines.

Viewpoint Number, Location, and Viewing Direction (* denotes KOP)	Primary Viewers	Approximate Viewing Distance to Project	Existing Visual Conditions
5. Prie Vineyard and Winery at Alpine Road looking southeast	Local and regional recreationalists and agricultural workers	4,900 feet (0.93 mile)	This distant view toward the project route from a commercial winery with public access includes an expanse of vineyard grapevines in the foreground. Dense stands of mature trees surrounding numerous residences along East Kettleman Lane can be seen in the background located approximately 0.4 mile from this viewpoint. Isolated wood utility poles can be seen in the distance through gaps in the vegetation; however, distant views across the flat terrain toward the proposed project are screened by intervening tree canopy.
6. Mettler Family Vineyards at East Harney Lane looking north*	Local and regional recreationalists and agricultural workers	2,125 feet (0.40 mile)	This view toward the project from a publicly accessible outdoor seating terrace at a commercial winery looks across a flat landscape dominated by grapevines seen in the foreground. In the immediate foreground, portions of a paved patio, lawn area, and decorative landscape elements are visible. The close proximity of the outdoor terrace to the vineyard contributes to screening more distant landscape features and, as a result, the tall tree canopies, residences, and utility poles along East Kettleman Lane that are partially visible from Viewpoint 9 are only barely visible from this location.
7. East Kettleman Lane at Hoerl Road looking southwest	Local motorists and nearby residents	1,750 feet (0.33 mile)	This view shows the project route from a public arterial in an area where some residences face the roadway. Relatively open motorist views across the landscape include vineyards and orchards; arrays of wood utility poles supporting existing overhead lines are visible against the sky along East Kettleman Lane and adjacent roadways. By contrast, stands of existing mature trees screen residential views across the landscape from this area.
8. East Kettleman Lane near North Curry Avenue looking northwest*	Local motorists and residents	1,065 feet (0.20 mile)	This is an open view toward the project route from a well-traveled public roadway near eastern Lodi's industrial perimeter, where clusters of residences situated along East Kettleman Lane and North Curry Avenue are interspersed among vineyards and a multi-acre tree farm (not shown). Wood utility poles supporting multiple overhead power and telecommunication lines are visible in the foreground against a backdrop of sky with light-colored, low-rise industrial warehouse facilities, railroad infrastructure, and pole-mounted industrial lights seen along the horizon.
9. East Kettleman Lane at Pixley Parkway looking east	Local motorists and nearby residents	3,170 feet (0.6 mile)	This motorist view shows the location of the project crossing from a well-traveled public roadway at Lodi's eastern perimeter, approximately 0.33 mile from SR 99. In this area, the development pattern reflects land use transition and industrial and commercial enterprises are interspersed with open fields, vineyards, and scattered residences. On the right, wood utility poles line the roadway, diminishing in prominence as they recede into the distance. Roadside commercial signage and pole-mounted street and industrial lights are noticeable elements in the foreground on the left. Stands of mature trees screen more distant views.

Viewpoint Number, Location, and Viewing Direction (* denotes KOP)	Primary Viewers	Approximate Viewing Distance to Project	Existing Visual Conditions
10. East Realty Road at North Curry Avenue looking northwest	Local motorists and residents and agricultural workers	775 feet	This close-range view shows the project route from a roadway intersection in an area of scattered rural residences. In the immediate foreground, a vineyard borders a private access road leading to an isolated residence and cluster of farm utility buildings, and an array of wood utility poles supporting overhead conductors lines the road. Mature trees surround the residence and adjacent buildings, partially screening a large industrial warehouse building seen on the right, beyond the vineyard.
Landscape Unit 3			
1. South Guild Avenue near East Thurman Road looking north	Local motorists and pedestrians, and industrial workers	230 feet	This close-range view looks north toward the PG&E Thurman Switching Station site and the existing PG&E Lockeford-Industrial, Lodi-Industrial, and Industrial Tap 60 kV lines from a public street within the City of Lodi's industrial district. Agricultural processing and warehousing facilities dominate this area and numerous utility poles, overhead conductors, and pole-mounted streetlights are present. The existing LEU Industrial Substation (not visible in this view) is located to the left of the undeveloped land in the center of the view.
2. East Thurman Road looking northeast*	Local motorists and pedestrians, and industrial workers	400 feet	This close-range view looking toward South Guild Avenue shows the southeastern corner of the existing LEU Industrial Substation perimeter fence, the proposed LEU Guild Substation, and PG&E Thurman Switching Station site from a public street in Lodi's industrial district. Roadway pavement and the undeveloped proposed switching station and substation site are prominent in the foreground, while the backdrop comprises an industrial warehouse building, which is partially screened by tractor-trailer rigs parked along the street. On the left in the distance, portions of the existing PG&E Industrial Tap and Lockeford-Industrial 60 kV power lines with the LEU 12 kV feeder line underbuild can be seen against the sky where they are visible above tree canopies located near the warehouse as well as at the Memorial Park and Cemetery.

5.1.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

City of Lodi is a local agency and must comply with its own local plans and policies. The project is located in unincorporated areas of San Joaquin County and also passes through a portion of the City of Lodi. This section reviews policies and regulations of these jurisdictions as they relate to visual resources in the project area.

San Joaquin County General Plan (2016)

Scenic resources are addressed in the Natural and Cultural Resources (NCR) Element of the *San Joaquin County General Plan*. This element of the Plan notes, "… views of the Delta and the agriculturally rich valley floor, as well as panoramic views of the Coastal ranges and the Sierra, when visibility conditions permit, form the primary scenic resources within San Joaquin County. Because of the flatness of most of the County's terrain, and often poor air quality, most scenic views are limited to near and medium-range viewpoints as provided by viewpoints such as public recreation areas and roadways…" (p. 3.4-11).

Goals and policies include NCR-5.5, Environmental Protection, which states, "The County shall strive to balance the development of energy facilities with environmental protection and the preservation of other natural resources"; and NCR-7.1, "… to protect and enhance the unique scenic features of San Joaquin County."

Policies address scenic roadways, calling for protection of the visual character of and views from designated scenic roadways (NCR-7-1.1 and 7-1.2). NCR-7-1.3 indicates the County shall preserve scenic views from roadways by designating scenic routes. Figure NCR-1 shows 14 local and state scenic routes. North Jack Tone Road and Liberty Road (Clements Road) are crossed by, or near, the project, respectively. Other scenic routes within the project vicinity include SR 88/SR 12, approximately 4 miles north of the project, Eight Mile Road between Jack Tone Road and SR 88, approximately 3.5 miles south of the project, and a section of I-5, located approximately 8 miles west of the project terminus.

City of Lodi General Plan (2010)

The *City of Lodi General Plan* describes the Industrial land use classification as a mix of heavy manufacturing, warehousing, general service, storage, and distribution activities. Industrial sites are available within and adjacent to the existing cluster of industrial uses on the east side of the City. Per Section 17.24.030 of the City's Municipal Code, utility facilities are permitted with a use permit within the Industrial zone district.

Conservation Policies within the General Plan include measures to address protection of vegetation and wildlife habitat:

- C-P15: Site new development to maximize the protection of native tree species and sensitive plants and wildlife habitat. Minimize impacts to protect mature trees … when approving new development.

Policies relating to efforts to minimize air pollution within the Lodi planning area include:

- C-P6: Require new development to implement measures that minimize soil erosion from wind and water related to construction and urban development. Measures may include:
    - Construction techniques that utilize site preparation, grading, and best practices that provide erosion control and prevent soil contamination.

- C-P50: Require contractors to implement dust suppression measures during excavation, grading, and site preparation activities, including site watering, covering of stockpiles, and revegetation of graded areas.

5.1.3 Impact Questions

The project's potential effects on aesthetic resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.1-2 and discussed in more detail in the following sections. Section 5.1.4.6 includes additional discussion of visual change and the potential impact associated with the project.

Table 5.1-2. CEQA Checklist for Aesthetics

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

5.1.3.1 Additional CEQA Impact Questions

None.

5.1.4 Potential Impact Analysis

Project impacts related to aesthetic resources were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.1.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the project."

As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on aesthetics were evaluated for each of the criteria listed in Table 5.1-2, as discussed in Section 5.1.4. The following sections describe significance criteria for aesthetic impacts derived from Appendix G of the CEQA Guidelines and additional CEQA impact questions, and address potential project-related construction and operational visual impacts.

5.1.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs:

APM Aesthetics (AES)-1: Aesthetics Impact Reduction During PG&E Construction. All PG&E project sites will be maintained in a clean and orderly state. Construction staging areas will be sited away from the public view where possible. Where this is unavoidable, construction sites, staging areas, and fly yards will be visually screened using temporary screening fencing. Nighttime lighting will be directed away from residential areas and have shields to prevent light spillover effects. Upon completion of project construction, project staging and temporary work areas will be returned to pre-project conditions, including regrading of the site and revegetation or repaving of disturbed areas to match pre-existing contours and conditions.

BMP AES-1: Aesthetics Impact Reduction During LEU Construction. All LEU project sites will be maintained in a clean and orderly state. Construction staging areas will be sited away from the public view where possible. Where this is unavoidable, construction sites, staging areas, and fly yards will be visually screened using temporary screening fencing. Nighttime lighting will be directed away from residential areas and have shields to prevent light spillover effects. Upon completion of project construction, project staging and temporary work areas will be returned to pre-project conditions, including regrading of the site and revegetation or repaving of disturbed areas to match pre-existing contours and conditions.

APM AES-2: **Use of Dulled Galvanized Finish on PG&E Tubular Steel Poles and PG&E Non-Specular Conductors.** Use of a factory-dulled galvanized finish on new PG&E TSPs and PG&E non-specular (nonreflective) conductors would reduce the potential for a new source of glare and visual contrast resulting from the PG&E TSPs and conductors.

APM AES-3: PG&E Poles near Residences. To reduce potential visibility of PG&E Structure W13 as seen from the residence located within approximately 250 feet, where relatively unobstructed views of the project are seen and the new PG&E structure appears prominent, APM AES-3a and/or 3b will be implemented.

APM AES-3a: PG&E will consult with residential property owner regarding placement of PG&E Structure W13 to reduce its visibility with respect to the residential view.

APM AES-3b: PG&E will consult with residential property owner regarding PG&E's potential purchase of several trees and large shrubs for installation at key locations on residential property to provide visual screening. The selected plant material will be ecologically appropriate to the local landscape setting (in terms of water usage, horticultural and soil requirements, and so on) and will be compatible with PG&E and CPUC requirements for landscaping in proximity to power facilities. After planting, the maintenance of the plants will be the responsibility of the property owner.

5.1.4.3 Potential Impacts

Project impacts related to aesthetics were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E's Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new TSPs and conductors for approximately 11 miles. PG&E's Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. LEU's Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU's Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E's Lockeford and Lodi substations. LEU distribution and third-party telecommunication underbuild on a PG&E 60 kV line portion being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) **Would the project have a substantial adverse effect on a scenic vista? *No impact.***

PG&E Potential Impact Discussion

CEQA requires that the project be evaluated as to whether its implementation has a substantial, adverse effect on a scenic vista. For purposes of this evaluation, a scenic vista is defined as a distant public view along or through an opening or corridor that is recognized and valued for its scenic quality. With the exception of the existing PG&E Clayton Hill Repeater Station, there are no recognized scenic vistas within the PG&E portion of the project viewshed. The existing PG&E Clayton Hill Repeater Station is located more than 3 miles from the summit of Mount Diablo, a scenic vista point, and PG&E project modifications would not be noticeable at this distance; therefore, there would be no substantial adverse effect on a scenic vista from the PG&E portion of the project. Additionally, the PG&E portion of the project would not obstruct views to the Coast and Sierra Nevada ranges and nearby rivers. There would be no impact.

LEU Potential Impact Discussion

There are no recognized scenic vistas within the LEU portion of the project viewshed; therefore, there would be no substantial adverse effect on a scenic vista from the LEU portion of the project. Additionally, the LEU portion of the project would not obstruct views to the Coast and Sierra Nevada ranges and nearby rivers. There would be no impact.

b) **Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? *No impact.***

PG&E Potential Impact Discussion

As documented in Section 5.1.2.2, the proposed PG&E 230 kV transmission line, modified PG&E Lockeford Substation, and proposed PG&E Thurman Switching Station would not be visible from any state-designated or eligible scenic highway, and there are no designated or eligible state scenic highways within the project viewshed. Therefore, the proposed PG&E portion of the project would not substantially damage scenic resources within a state scenic highway.

Portions of the new PG&E 230 kV transmission line would be visible from San Joaquin County scenic routes in the project area. These include Clements Road, situated approximately 0.6 mile east of the takeoff point from the PG&E Brighton-Bellota transmission corridor, and North Jack Tone Road, which is crossed by the proposed alignment east of PG&E Lockeford Substation. Views of the PG&E transmission

line crossing from North Jack Tone Road, as well as the view toward the transmission line available from Clements Road, would be seen in the context of multiple existing transmission lines that closely parallel the project route. Other County scenic routes in the project area include SR 12 and SR 88. The designated scenic portion of SR 12 and SR 88 begins where the two highways are collocated approximately 3 miles north of PG&E Lockeford Substation. From this location and from along the approach to the scenic portion of SR 12 east of Lodi, visibility of project components is limited by viewing distance and the presence of intervening vegetation and structures. SR 88 is crossed by the PG&E transmission line alignment approximately 4 miles southwest of its scenic designation. PG&E project components visible to motorists along SR 88 would be seen in the context of an existing 60 kV power line supported by wood poles that crosses the highway approximately 0.25 mile south of the transmission line alignment. Furthermore, affected views would be fleeting, given typical highway speeds along this stretch of roadway (posted speed limit of 55 mph). In light of conditions described previously, the PG&E project would not have a significant effect on views from local scenic roadways in the project area. There would be no impact.

LEU Potential Impact Discussion

The proposed LEU Industrial and Guild substations would not be visible from any state-designated or eligible scenic highway, and there are no designated or eligible state scenic highways within the project viewshed. Therefore, the LEU project would not substantially damage scenic resources within a state scenic highway. There would be no impact.

c) **In nonurbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?**
Less-than-Significant Impact

PG&E Potential Impact Discussion

PG&E's construction of its facilities would occur primarily in unincorporated San Joaquin County and includes modification of the existing PG&E Lockeford Substation and the introduction of approximately 10.6 miles of a new PG&E 230 kV transmission line between the existing PG&E Brighton-Bellota transmission corridor and LEU Industrial Substation. Construction of a new PG&E Thurman Switching Station and microwave tower, and new PG&E transmission and telecommunication lines, along with reconfiguration of existing power and service lines and removal of a portion of an existing PG&E 60 kV wood pole power line, would occur in an industrial-zoned district within the City of Lodi. Additional project details are included in the Project Description in Chapter 3 of this document. PG&E facilities will be located in a nonurbanized area and, therefore, the impact analysis focuses on substantial adverse impacts to the existing visual character or quality of public views of the site and its surroundings.

Temporary Construction Impacts

Construction-related visual impacts resulting from the temporary presence of equipment, materials, and work crews at PG&E Lockeford Substation, and Thurman Switching Station sites, as well as along the existing PG&E 60 kV lines and new PG&E 230 kV transmission alignment, including staging and work areas and stringing sites, would not substantially degrade the existing visual character or quality of the site and its surroundings. During construction, visual impacts would include the temporary presence of workers, temporary structures, construction equipment, and vehicles associated with the installation of poles, conductors, and substation components. PG&E portions of the project, including PG&E Lockeford Substation, and proposed PG&E Thurman Switching Station, as well as the modified PG&E 60 kV power lines, are located in proximity to public roadways. Although construction activities would be visible to motorists and a limited number of residents (in the case of PG&E Lockeford Substation) at these locations, adjacent structures and vegetation would provide some measure of screening. APM AES-1 calls for construction staging, material storage, and work areas to be located away from public view wherever

possible. Where this is unavoidable, construction sites, staging areas, and landing zones will be visually screened using temporary screening fencing.

Construction of the new PG&E 230 kV transmission line would occur primarily on agricultural land located at varying distances from roadways in areas where mechanized agricultural production activities typically employ the use of trucks and other equipment that is not unlike project-related construction equipment. For the most part, the project would use the existing network of public and private farm roads to access structure work areas, pull and tension sites, and staging areas. Public views available to nearby residents and some agricultural workers of construction activities along the PG&E 230 kV transmission alignment would be more limited. Residences generally are isolated and scattered and, for the most part, are surrounded to varying degrees by mature vegetation that would screen open views across the landscape. Motorists potentially would have more open views of construction activities where the proposed route would cross area roadways; with the exception of SR 88, where such views would be fleeting given typical roadway speeds, local roadways crossed by the project generally carry light and intermittent traffic. Construction is expected to take approximately 34 months, although construction activity would be visible for considerably less time at any one location along the project alignment.

Project construction would require minimal grading and, while some permanent removal of existing vegetation would be necessary, this would be limited for the most part to grapevines and a small number of orchard trees. Trees that encroach on existing access and spur roads, stringing sites, construction laydown and work areas, staging yards, and helicopter landing zones may be trimmed or removed to permit the safe operation of construction equipment; however, locations of these areas would be selected to minimize the effects on existing vegetation. This visual change would be minor and not particularly noticeable to the public. In the anticipated limited instances where tree removal is required, new replacement trees would be planted post construction. Overall, the visual effects of vegetation removal would be minor and temporary, and not particularly noticeable to the public.

Installation of poles and other structures would result in minor disturbance of land within the station areas and along the project transmission alignments. In addition, minor land disturbance resulting in a limited degree of visual contrast may occur at some of the temporary staging and work areas that would be established as part of the project construction; these areas generally would be located on previously disturbed land located near or along the project transmission alignment. As included in APM AES-1, all areas that would be temporarily disturbed by construction would be restored to conditions as close to preconstruction as feasible, or to the conditions agreed upon between the landowner and PG&E following the completion of construction. These measures would reduce visual contrast and potential visibility of land disturbance resulting from temporary construction activities. As a result, given the existing presence of mechanized agricultural activities and the limited number of affected viewers with close-range project views, temporary construction-related visual effects would be less than significant.

Permanent Construction Impacts

The PG&E project would involve the construction of a new PG&E 230 kV transmission line supported by approximately 72 TSPs with an average height of approximately 126 feet along approximately 10.6 miles of predominantly agricultural land, in addition to expansion of PG&E Lockeford Substation on existing substation property to accommodate the new transmission components and the construction of a new PG&E Thurman Switching Station on a vacant parcel adjacent to the existing LEU Industrial Substation within the City of Lodi. Three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E's Lockeford and Lodi substations. LEU feeder and Comcast telecommunication underbuild on a PG&E 60 kV line portion being removed will be relocated by the respective utility owners to within or adjacent to other existing alignments. An existing PG&E service line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station, and two additional microwave antennas will be added to the existing PG&E Clayton Hill Repeater Station south tower.

Modifications to existing PG&E 60 kV lines and removal of a portion of an existing PG&E 60 kV wood pole power line would occur in an industrial-zoned district within the City of Lodi. Modifications may be noticeable, but would represent an incremental visual effect in an industrial setting that includes adjacent built features of similar material, scale, and appearance. The modified PG&E 60 kV line would be seen by viewers who generally would be familiar with the surrounding industrial environment.

Permanent visual change resulting from modifications to the existing PG&E Lockeford Substation and new PG&E Thurman Switching Station sites would be noticeable but largely incremental and would not substantially alter or degrade the existing visual character of the landscape in these areas. The proposed PG&E 230 kV transmission structures would be predominantly situated on (private) agricultural land where, in many cases, intervening vegetation and structures would screen public views of the project. New PG&E transmission structures would be noticeable to varying degrees, particularly west of PG&E Lockeford Substation where close-range, largely screened views of new project structures would be seen by a relatively small number of residential viewers. In one location, a proposed PG&E transmission structure would be located less than 250 feet from a residence on Alpine Road and could appear prominent in unobstructed close-range views. APM AES-3 would relocate the structure and/or provide new landscape screening to reduce the potential project visibility with respect to the residential view.

Throughout the project area, the visual modifications to the landscape resulting from PG&E project construction would be experienced by motorists, residents, and visitors to area wineries and would be seen within the context of a working landscape with considerable modification related to agricultural activity, and where irrigation infrastructure along with agricultural processing, storage, and transport facilities are established visible landscape features. This infrastructure includes built elements such as steel fencing, corrugated metal warehouses, and vertical light standards. Within the project vicinity, existing electric utility structures – including substation components, wood power poles, and overhead power and telecommunication lines – also are characteristic landscape elements in addition to numerous existing lattice steel towers supporting overhead transmission lines that closely parallel and intersect the approximately 3.8-mile project segment that extends from the PG&E Brighton-Bellota takeoff point to PG&E Lockeford Substation. Along its entire length, the project alignment passes near, or crosses, public roads as well as private farm roads where existing wood poles currently support overhead transmission and distribution lines. Within the City of Lodi, the PG&E project includes the construction of a new PG&E switching station on a vacant parcel adjacent to the existing LEU Industrial Substation, located within an industrial-zoned district characterized by existing industrial and commercial facilities and associated railroad lines.

Although distant, open views toward the PG&E portion of the project would potentially be available from some locations in the project area. The frequent atmospheric haze within the San Joaquin Valley generally limits visibility to near- and medium-range views throughout much of the year. The visual change associated with the project would potentially be most noticeable where the alignment closely parallels or crosses paved (public) roadways and where the alignment passes near more visually sensitive areas such as residential properties or publicly accessible commercial wineries, which afford relatively close-range, medium- to long-duration views of project elements.

Within Landscape Unit 1, the new PG&E 230 kV alignment extends east-west approximately 3.8 miles between the PG&E Brighton-Bellota transmission corridor and PG&E Lockeford Substation, closely paralleling an existing transmission ROW and crossing a number of unpaved private farm roads along with several paved public roadways. Figures 5.1-3a and 5.1-3b, an existing and a post-project KOP view along North Jack Tone Road near the intersection with East Kettleman Lane, show numerous wood utility poles supporting an existing power line that parallels the roadway on the right, while multiple existing lattice steel structures support several collocated transmission lines that cross the road a short distance beyond.

In the Figure 5.1-3b simulation, a new TSP supports the double-circuit PG&E 230 kV project transmission line where it crosses the roadway on the right in the immediate foreground. The new structure would be noticeable; however, because of the presence of numerous existing structures, it would not dominate the view. Additionally, because of the new structure's light color and nonreflective surface, the potential visual

contrast against the sky backdrop is lessened. Given the brief duration of motorists' views, and because there are multiple existing nearby transmission structures and overhead lines, the moderate level of incremental visual change at this location would not substantially affect the existing landscape character.

In Landscape Unit 2, the new PG&E 230 kV alignment extends generally east-west for approximately 6 miles from just west of PG&E Lockeford Substation to the City of Lodi. Compared with the visual setting in Landscape Unit 1, a more-diverse mix of land uses characterizes the area. Along with vineyards and orchards, this area includes a more-dense public roadway network, as well as more residential properties, and a number of commercial wineries, many found near to or fronting area roadways. The vegetation pattern within this landscape unit also differs from the predominantly open landscape found east of PG&E Lockeford Substation because of mature vegetation along roadways and enclosing residential and commercial properties such as wineries. Although vegetation would screen views of the project from many locations, portions of the project would be noticeable to varying degrees where the alignment passes in proximity to residences, to area commercial wineries, and to roadways. One proposed PG&E transmission structure along Alpine Road would be located less than 250 feet from a residence and could appear prominent in unobstructed close-range views. APM AES-3 would relocate the structure and/or provide new landscape screening to reduce the potential project visibility with respect to the residential view.

Figure 5.1-4a is a view from Mettler Vineyards, a commercial winery located along East Harney Lane. Taken at standing eye-level, this view looking north across a mature vineyard is framed by the winery's indoor tasting room and a decorative masonry wall in the foreground. Slightly visible on the horizon are stands of mature trees along East Kettleman Lane located approximately 0.8 mile away.

Figure 5.1-4b simulation shows the new PG&E 230 kV transmission line at a distance of approximately 0.4 mile, where a pair of new TSPs can be seen silhouetted against the sky on the left and right, beyond the expanse of vineyard in the foreground. Although the new project structures are noticeable against the light sky backdrop, they do not dominate this standing eye-level view in which the grapevines, as well as decorative landscape and structural elements, provide focal points in the immediate foreground. Note that the approximately 6-foot-tall grapevines would effectively screen views of winery visitors who are seated at the outdoor tables, and thus the project would not be visible from this vantage point. As described previously, the project would not substantially degrade the existing visual character of the landscape at this location.

Farther west, where the new PG&E 230 kV project alignment parallels North Curry Avenue just east of Lodi, Figure 5.1-5a and 5.1-5b show a motorist's view from East Kettleman Lane, a well-traveled public roadway approaching the eastern perimeter of Lodi's industrial zone. A residence seen on the right edge of the view is one of several that are interspersed among vineyards along both North Curry Avenue and East Kettleman Lane. For residences in this area, mature vegetation lining the roadways and enclosing many of the residential properties generally screens open views of the landscape. Seen in the foreground silhouetted against the sky, wood utility poles support numerous overhead power and telecommunication lines along North Curry Avenue while several low-rise industrial warehouse structures also are partially visible in the background beyond an expanse of vineyard in the foreground.

The Figure 5.1-5b visual simulation shows two new PG&E 230 kV TSPs supporting overhead conductors silhouetted against the sky where the project alignment skirts the edge of an industrial complex beyond the grapevines seen in the foreground. The new structure on the left is noticeably taller and larger in diameter than the nearby wood poles; however, based on the presence of existing wood poles seen at this location, the new poles do not dominate the view. Compared with the darker existing wood poles, the potential visual contrast and resulting visibility of the new light-colored poles would be lessened when seen against the sky under typical viewing conditions. The nonreflective surfaces of the new poles and conductor also would tend to reduce their potential visibility. Overall, the introduction of the new PG&E project structures would represent an incremental change to the visual setting that includes existing electrical infrastructure as well as industrial structures in the background. Thus, the PG&E project would not substantially degrade the existing visual character of the landscape at this location.

Landscape Unit 3 encompasses the area surrounding the proposed LEU Guild Substation, PG&E Thurman Switching Station, and the western terminus of the proposed PG&E 230 kV transmission line. Figure 5.1-6a shows a view of the proposed LEU Guild Substation and PG&E switching station site from East Thurman Road, a public street located in an industrial district along Lodi's eastern perimeter. Looking toward South Guild Avenue, this motorist's view shows the undeveloped parcel adjacent to the existing LEU Industrial Substation against the backdrop of a large industrial warehouse on the right. On the far left, a corner of the existing LEU Industrial Substation fencing is visible, with the majority of the substation equipment farther to the left and out of this view. Silhouetted against the sky near the center left of the view, existing PG&E 60 kV power lines situated along a rail corridor on the far side of the site can be seen above tree canopies near the warehouse; a larger stand of trees surrounds Memorial Park and Cemetery, located beyond South Guild Avenue.

The Figure 5.1-6b visual simulation depicts part of the new LEU Guild Substation on the left and the new PG&E Thurman Switching Station in the center. This close-range view of the project shows the new perimeter fences screen lower portions of substation and switching station components. Within the perimeter fence, taller support structures ranging in height from approximately 45 feet to 55 feet and an approximately 150-foot-tall communications (or microwave) tower adjacent to the facility on the left are seen against a sky backdrop. The new PG&E communications tower, which may be approximately 125 feet tall, is similar in scale and appearance to an existing tower located approximately 1 mile to the east. New TSP structures ranging in height from 130 feet to 145 feet support the new PG&E 230 kV transmission line. They are partially visible beyond the new PG&E switching station and extend beyond the existing warehouse in the center of the view. The project also includes removing and reconfiguring some existing PG&E 60 kV poles partially visible behind the switching station in this view. Located adjacent to existing substation facilities, the new PG&E switching station and associated structures would be seen in the context of numerous similar electrical utility structures and substation components. Given its context, the new PG&E facility would represent an incremental visual effect in an industrial setting that includes adjacent built features of similar material, scale, and appearance. Project components would be seen by a limited number of viewers, who generally would be familiar with the surrounding industrial environment; the overall visual sensitivity at this location is considered low to moderate because of its location, industrial use, and zoning. As a result of conditions outlined previously, the project would not substantially degrade the existing visual character of the landscape at this location.

The addition of two new antennas to the existing PG&E Clayton Hill Repeater Station microwave tower, which has approximately 11 existing attachments, is a minor modification that is unlikely to be noticeable from more than 0.25 mile away by recreational users of Black Diamond Mines Regional Park.

As discussed previously, as well as in Section 5.1.4.6, and as demonstrated by the set of visual simulations from KOPs presented on Figures 5.1-3a and 5.1-3b through Figures 5.1-6a and 5.1-6b, while the construction of the PG&E project would result in visual changes that would be noticeable to varying degrees, and could be considered adverse, overall the effects of the PG&E project would not substantially degrade the existing visual character of the landscape setting and the impacts would be less than significant.

Operation Impacts

At PG&E Lockeford Substation and PG&E's four modified 60 kV lines, current ongoing routine operations and maintenance activities are sufficient and no additional activities would be required under the project; thus, no operation-related visual impacts would occur. Similarly, at the new PG&E Thurman Switching Station with the new microwave communication tower and permanent secondary service line, the operations and maintenance activities would represent an incremental addition to ongoing activities at the adjacent LEU Industrial Substation.

Along the new PG&E 230 kV transmission line, operations and maintenance activities including routine inspections and emergency repair would require the periodic short-term use of vehicles and equipment that could be visible to the public. Typically, there are no operations and maintenance inspections

conducted on a new transmission line for the first 5 years following the in-service date. After 5 years, inspections are performed annually by either vehicle or helicopter. These activities would occur primarily on agricultural land at varying distances from roadways in areas where mechanized agricultural production activities typically employ the use of trucks and other equipment that is not unlike project maintenance equipment. Maintenance could include activities such as repairing conductors, replacing insulators, repairing or replacing other hardware components, tree trimming, brush and weed control, and access road maintenance. Given the existing presence of mechanized agricultural activities and the limited number of affected viewers, these short-term activities would not substantially degrade the existing visual character of the landscape and impacts would be less than significant.

LEU Potential Impact Discussion

LEU construction of LEU portion of the project would occur in the City of Lodi, including construction of a new LEU Guild Substation adjacent to the existing LEU Industrial Substation, and relocation of an existing 12 kV feeder line to an underground configuration. All of LEU's work would occur within the industrial-zoned district in the City of Lodi. Additional project details are included in the Project Description in Chapter 3 of this document. LEU portion of the project is located in a nonurbanized area and, therefore, the impact analysis focuses on substantial adverse impacts to the existing visual character or quality of public views of the site and its surroundings.

Temporary Construction Impacts

Construction-related visual impacts resulting from the temporary presence of equipment, materials, and work crews at LEU Industrial Substation, the proposed LEU Guild Substation site, and the 12 kV feeder reconfiguration would not substantially degrade the existing visual character or quality of the site and its surroundings. During construction, visual impacts would include the temporary presence of workers, temporary structures, construction equipment, and vehicles associated with the installation of substation components. The LEU substations and 12 kV feeder line are located in proximity to public roadways. Although construction activities would be visible to motorists at this location, BMP AES-1 calls for construction staging, material storage, and work areas to be located away from public view wherever possible. Where this is unavoidable, construction sites, and staging areas will be visually screened using temporary screening fencing.

Installation of LEU project structures would result in minor disturbance of land within the project site. As included in BMP AES-1, all areas that would be temporarily disturbed by construction would be restored to conditions as close to preconstruction as feasible, or to the conditions agreed upon between the landowner and LEU following the completion of construction. These measures would reduce visual contrast and potential visibility of land disturbance resulting from temporary construction activities. As a result, given the existing adjacent LEU substation and the limited number of affected viewers with close-range project views, temporary construction-related visual effects would be less than significant.

Permanent Construction Impacts

The LEU project would involve the relocation of an existing overhead 12 kV feeder line to underground, and construction of a new LEU Guild Substation on a vacant parcel adjacent to the existing LEU Industrial Substation within the City of Lodi. Figure 5.1-6a shows a view of the proposed LEU substation and PG&E switching station site from East Thurman Road, a public street located in an industrial district along Lodi's eastern perimeter. Looking toward South Guild Avenue, this motorist's view shows the undeveloped parcel adjacent to the existing LEU Industrial Substation against the backdrop of a large industrial warehouse on the right. On the far left, a corner of the existing LEU substation fencing is visible, with the majority of the substation equipment farther to the left and out of this view. Silhouetted against the sky near the center left of the view, existing PG&E power lines and LEU 12 kV lines situated along a rail corridor on the far side of the site can be seen above tree canopies near the warehouse; a larger stand of trees surrounds Memorial Park and Cemetery, located beyond South Guild Avenue.

The Figure 5.1-6b visual simulation depicts part of the new LEU Guild Substation on the left and the new PG&E Thurman Switching Station in the center. This close-range view of the project shows the new perimeter fence screens lower portions of substation and switching station components. Within the perimeter fence, taller support structures ranging in height from approximately 45 feet to 55 feet and an approximately 150-foot-tall PG&E communications tower adjacent to the facility on the left are seen against a sky backdrop. Located adjacent to existing substation facilities, the new LEU substation would be seen in the context of numerous similar electrical utility structures and substation components. Given its context, the new LEU facility, the modifications to LEU Industrial Substation, and the relocation of the 12 kV line to underground would represent an incremental visual effect in an industrial setting that includes adjacent built features of similar material, scale, and appearance. The LEU portion of the project would be seen by a limited number of viewers, who generally would be familiar with the surrounding industrial environment; the overall visual sensitivity at this location is considered low to moderate based on its location, industrial use, and zoning. As a result of conditions outlined previously, the LEU portion of the project would not substantially degrade the existing visual character of the landscape at this location and the impacts would be less than significant.

Operation Impacts

At the new LEU Guild Substation, modified LEU Industrial Substation, and relocated 12 kV feeder line, the operations and maintenance activities would represent an incremental addition to ongoing activities at LEU Industrial Substation and other existing LEU 12 kV lines on adjacent roadways. These activities would not substantially degrade the existing visual character of the landscape and impacts would be less than significant.

d) **Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?** ***Less-than-Significant Impact.***

PG&E Potential Impact Discussion

Glare exists when a high degree of contrast between bright and dark areas in a field of view make it difficult for the human eye to adjust to differences in brightness. At high levels, glare can make it difficult to see, such as when driving westward at sunset. APM AES-2, which calls for the use of a dulled galvanized finish on TSPs and non-specular conductors, would minimize the potential effect of glare.

Temporary Construction Impacts

The PG&E portion of the project, including the 230 kV transmission line and PG&E Lockeford Substation, are predominantly situated in a rural setting where lighting sources tend to be localized and associated with agricultural processing facilities, residences, and some roadway intersections. Street lighting and outdoor industrial facility lighting is widespread in the area around PG&E Thurman Switching Station and service line, 60 kV line and 230 kV line construction within the City of Lodi. Although PG&E project construction is expected to occur mostly during daylight hours, occasionally some nighttime work may be necessary that would require limited temporary lighting at some work areas. In addition, for the duration of construction, staging yards may require nighttime security lighting. Outside the City of Lodi, given the limited amount of night light sources in the area, construction lighting used along the PG&E transmission line alignments and in the PG&E Lockeford Substation area may create a new source of substantial temporary light in the area if lights are directed toward roadways or residences, which could be a significant impact. As specified in APM AES-1, these lighting sources would be directed onsite and away from potentially sensitive receptors. Therefore, impacts would be less than significant.

Permanent Construction Impacts

No new lighting is proposed along the new PG&E 230 kV transmission line. The project would include new nighttime lighting on some new structures at PG&E Lockeford Substation and PG&E Thurman Switching

Station; the new lighting would be operated as needed for safety, security, and emergency nighttime work, and would use nonglare or hooded fixtures and directional lighting. Impacts would be less than significant.

Glare from new PG&E 230 kV TSP structures and conductors has the potential to create a significant impact, particularly at roadway crossings and near residences. Use of non-specular conductors and a dulled galvanized finish on the new PG&E project poles would reduce potential glare of transmission components. Equipment at PG&E Lockeford Substation and the new PG&E Thurman Switching Station would be a nonreflective neutral gray color and galvanized steel structures would weather to a dull, nonreflective patina and would minimize the potential effect of glare. New fence material would be similar to the chain link fencing at the existing substations and would weather to a dull, nonreflective patina. Potential impacts from glare for the PG&E portion of the project would be less than significant.

Operation Impacts

While nighttime operation and maintenance work for the PG&E portion of the project is not planned, it may occur on an emergency basis as needed. Nighttime lighting for work would be infrequent if it occurs. The additional lighting would represent a minor incremental change to existing nighttime lighting conditions at the switching station and substation sites. The impact would be less than significant.

LEU Potential Impact Discussion

Temporary Construction Impacts

The project is predominantly situated in a rural setting where lighting sources tend to be localized and associated with agricultural processing facilities, residences, and some roadway intersections. Street lighting and outdoor industrial facility lighting is widespread in the area around LEU Industrial and Guild substations, and feeder line within the City of Lodi. Although LEU's project construction is expected to occur mostly during daylight hours, occasionally some nighttime work may be necessary that would require limited temporary lighting at some work areas. In addition, for the duration of construction, staging yards may require nighttime security lighting. As specified in BMP AES-1, lighting sources would be directed onsite and away from potentially sensitive receptors. Therefore, impacts would be less than significant.

Permanent Construction Impacts

The project would include new nighttime lighting on some new structures at LEU Guild Substation; the new lighting would be operated as needed for safety, security, and emergency nighttime work, and would use nonglare or hooded fixtures and directional lighting. Impacts would be less than significant.

Equipment at the new LEU Guild Substation would be a nonreflective neutral gray color and galvanized steel structures would weather to a dull, nonreflective patina that would minimize the potential effect of glare. New fence material would be similar to the chain link fencing at the existing substations and would weather to a dull, nonreflective patina. Potential impacts from glare for the LEU portion of the project would be less than significant.

Operation Impacts

While nighttime operation and maintenance work for the LEU portion of the project is not planned, it may occur on an emergency basis as needed. Nighttime lighting for work would be infrequent if it occurs. The additional lighting would represent a minor incremental change to existing nighttime lighting conditions at the substation sites. The impact would be less than significant.

5.1.4.4 Analysis of Selected Viewpoints

Selected to convey a general sense of the existing visual character of the landscape within the vicinity of the project, a set of 18 representative viewpoints was summarized previously in Table 5.1-1 and illustrated with a set of photographs presented on Figure 5.1-2. Four KOPs were selected to represent viewing locations where the project could be most visible to the public, including a County scenic route, a winery tasting room accessible to the public, a well-traveled public roadway near residences, and a close-range viewpoint within the City of Lodi. Using technical methods described in the following section, visual simulations were prepared to show the project from these KOPs and to document the visual change that would occur.

5.1.4.5 Visual Simulation

The set of visual simulations presented on Figures 5.1-3a through 5.1-6b documents the project-related visual changes that would occur at four KOPs and provides the basis for evaluating potential visual effects associated with the project from these key public views. The methodology employed for preparing the simulations includes site photography, computer modeling, and digital rendering techniques.

Photographs were taken using a full-frame digital camera with standard 50-millimeter lens, which represents an approximately 40-degree horizontal view angle. Photography viewpoint locations were documented systematically using photo log sheet notation, global positioning system recording, and base-map annotation. Digital aerial photographs and project design information supplied by PG&E and LEU provided the basis for developing a three-dimensional computer model of the new project components. For each viewpoint simulation, viewer location was input from global positioning system data, using 5.5 feet as the assumed eye level. Computer “wireframe” perspective plots were overlaid on the simulation photographs to verify scale and viewpoint location. Digital visual simulation images then were produced based on computer renderings of the three-dimensional model combined with the selected digital site photographs. The simulations are presented as figures with two full-page images designated “a” and “b,” with the existing views shown on the “a” figure and the post-project visual simulations shown on the “b” figure.

5.1.4.6 Analysis of Visual Change

This section includes a description of the visual changes associated with the project and an evaluation of potential visual effects on key public views, primarily as represented by the set of four KOP visual simulations. Key factors in determining the degree of visual change are visual contrast, project dominance, and view blockage brought about by project elements. Visual contrast is a measure of the degree of change in line, form, color, and texture that the project will create when compared to the existing landscape. Project dominance is a measure of the project element’s apparent size relative to other visible landscape features in the viewshed. View blockage is a measure of the degree to which project elements would obstruct or block views to landscape features based on the project’s position and/or scale.

The significance or degree of visual impact is determined based on evaluation of visual change in relation to visual sensitivity factors, including visual quality of the landscape, number and types of viewers, and degree of exposure of viewers. Table 5.1-3 presents an overview of the visual changes, including viewpoint location with corresponding visual sensitivity factor(s); approximate viewing distance; and summary of visible change and potential effect that would occur at each KOP location.

Table 5.1-3. Summary of Visual Change at KOPs

Photograph Number and Location (Figure number)	Visual Sensitivity Factor(s)	Approximate Viewing Distance	Visual Change and Effect
Landscape Unit 1			
KOP 5. North Jack Tone Road near East Kettleman Lane looking south (Figures 5.1-3a and 5.1-3b)	• Close-range view from a designated County scenic route • Viewers include motorists and a limited number of residents • Low to moderate visual sensitivity	465 feet	• New PG&E TSP supporting double-circuit transmission conductors is visible in foreground, near roadway edge. • New PG&E TSP is seen near multiple existing transmission structures and overhead lines, but does not appear dominant. • Dulled galvanized finish of PG&E TSPs lessens visual contrast of new structure when seen against the predominant backdrop of light sky. • Moderate level of incremental visual change would not affect existing landscape character substantially.
Landscape Unit 2			
KOP 12. Mettler Family Vineyards at East Harney Lane looking north (Figures 5.1-4a and 5.1-4b)	• View from commercial winery with public access tasting room • Viewers include tasting room visitors and winery employees • Moderate to high visual sensitivity	2,125 feet (0.4 mile)	• Two new PG&E TSPs supporting double-circuit transmission conductors are seen within a working vineyard. Grapevines screen lower portion of the new structures. • Dulled galvanized finish on PG&E TSPs lessens visual contrast of new structures seen against the light sky backdrop. • Project does not affect views of focal landscape elements seen in the foreground and does not dominate the overall view. • Incremental change would not alter overall character or quality of the existing landscape substantially.

Photograph Number and Location (Figure number)	Visual Sensitivity Factor(s)	Approximate Viewing Distance	Visual Change and Effect
KOP 14. East Kettleman Lane near North Curry Avenue looking northwest (Figures 5.1-5a and 5.1-5b)	• View from well-traveled public road • Near Lodi's urban perimeter • Viewers include motorists and a limited number of residents • Moderate visual sensitivity	1,125 feet (0.2 mile)	• Two new PG&E TSPs supporting 230 kV transmission line seen at the edge of a vineyard are visible against a backdrop of sky and industrial yards, warehouses, and railway infrastructure. Grapevines screen lower portions of the new structures. • Dulled galvanized finish of PG&E TSPs reduces visual contrast of new poles when seen against a backdrop of light-colored sky. • Given presence of existing warehouse and utility structures, new project structures would not dominate view and would not affect existing landscape character at this location substantially.
Landscape Unit 3			
KOP 18. East Thurman Road looking northeast (Figures 5.1-6a and 5.1-6b)	• Close-range view of project elements from a limited-use access road within Lodi's industrial district • Proximity to nearby commercial/industrial facilities • Viewers include a limited number of local motorists and employees of nearby industrial/commercial establishments • Low visual sensitivity	400 feet	• Introduction of new PG&E switching station and LEU substation facilities with perimeter fence, PG&E TSPs, and PG&E microwave tower on a previously vacant parcel as well as modifications to an existing LEU substation, PG&E 60 kV power lines, and LEU 12 kV lines. • New PG&E and LEU facilities are located adjacent to an existing substation and would be seen in the context of numerous existing electric utility structures and surrounding industrial infrastructure of similar material and scale. • Visual changes would appear consistent with nearby existing facilities and would not affect existing landscape character at this location substantially.

KOP 5 – North Jack Tone Road near East Kettleman Lane

Figure 5.1-3a is a perspective from southbound North Jack Tone Road, a County-designated scenic roadway with low to moderate traffic volumes. This unobstructed motorist view shows the characteristically developed agricultural landscape in the vicinity of the project crossing where irrigated covered row crops and adjacent open pasture, roadside drainage canals, and numerous farm utility buildings and accessory structures are partially screened by roadside vegetation. Prominently silhouetted against the sky are multiple lattice steel towers, wood utility poles, and sets of intersecting overhead conductors that both cross and parallel the roadway. Visual sensitivity at this location is considered low to moderate because of the brief duration of motorists' views and relatively low traffic volumes, as well as the presence of multiple existing transmission lines and a limited number of nearby residences.

The Figure 5.1-3b simulation, a view approximately 465 feet from the project's roadway crossing, shows the new PG&E 230 kV transmission line where it would be visible to passing motorists along North Jack Tone Road as well as from several adjacent residential properties. Visible in the foreground on the right, the new PG&E TSP supports a double-circuit 230 kV transmission line. Its narrow vertical form and short horizontal cross arms are similar to the form of existing wood utility poles supporting power and communication lines that parallel North Jack Tone Road. Although being somewhat taller than existing structures, the new PG&E TSP would not dominate the view, given the presence of numerous existing PG&E poles and multiple lattice towers seen at this location. Additionally, visual contrast of the new PG&E TSP against the sky is lessened by the light-colored, dulled galvanized surface. A comparison between the existing view and post-project simulation demonstrates that the moderate incremental level of visual change would not substantially affect the existing landscape character experienced at this location.

KOP 12 – Mettler Family Vineyards at East Harney Lane

Figure 5.1-4a is a view taken at standing eye-level from an outdoor terrace at the commercial winery located along East Harney Lane. Visitors at the outdoor seating terrace experience views across a flat landscape of mature vineyards framed in the foreground by the winery's building and a decorative masonry wall. Although stands of mature trees lining East Kettleman Lane, approximately 0.8 mile away, are slightly visible on the horizon, distant views are largely screened by rows of grapevines. Because the winery visitors are likely to be exposed to this view for a longer period of time as they enjoy the outdoor terrace, the visual sensitivity at this location is considered moderate to high.

The Figure 5.1-4b simulation shows the new PG&E 230 kV transmission line at a distance of approximately 0.4 mile, where upper portions of two new PG&E TSPs are visible against the sky on the left and right, beyond the grapevines seen in the foreground. Although the new project structures are noticeable, the project does not dominate this standing eye-level view, in part because the grapevines and decorative landscape and structural features are focal elements in the immediate foreground. In addition, the project is seen against a sky backdrop typically affected by atmospheric haze found in the area and potential visual contrast between the new PG&E transmission line and the sky is lessened by their light-colored dull surface. Note also that the new PG&E transmission line would not be visible to winery visitors seated at the outdoor tables because views would be screened by the approximately 6-foot-tall grapevines. As described previously, change associated with the project would not substantially degrade the existing visual character of the landscape experienced at this location.

KOP 14 – East Kettleman Lane near North Curry Avenue

Figure 5.1-5a is a motorist's view toward the project from a well-traveled public roadway approaching the eastern perimeter of Lodi's industrial zone. Seen in the foreground silhouetted against the sky, wood utility poles support numerous overhead power and telecommunication lines along North Curry Avenue, while several low-rise industrial warehouse structures also are partially visible in the background beyond an expanse of vineyard in the foreground. Given the brief duration of motorists' views and the small number of nearby residences, the visual sensitivity at this location is considered moderate.

The Figure 5.1-5b visual simulation shows two new PG&E 230 kV TSPs supporting multiple overhead transmission line conductors. Seen against a backdrop of sky, the project skirts the edge of an industrial complex that is partially visible beyond the vineyard in the foreground. The form of the new structures is not dissimilar to existing PG&E distribution wood poles seen within this view and extending the length of North Curry Avenue, in addition to those supporting power lines along East Kettleman Lane on either side of the North Curry Avenue intersection (not shown in this view). Although the new PG&E TSPs are noticeably taller and larger in diameter than existing wood poles seen nearby, they do not dominate the view, in part because of the presence of these existing poles and other backdrop structures. In addition, the light-colored, nonreflective surface of the poles lessens their visibility when seen against the sky under typical viewing conditions, compared with the darker existing wood poles. Overall, the introduction of the new project structures in this location represents an incremental visual change that, when seen in the context of the existing industrial backdrop and surrounding existing electrical utility infrastructure, would not substantially degrade the existing visual character of the landscape.

KOP 18 – East Thurman Road

Figure 5.1-6a shows the proposed PG&E Thurman Switching Station and LEU Guild Substation site from a public street located in an industrial district along Lodi's eastern perimeter. This motorist's view looks northeast across the undeveloped parcel toward South Guild Avenue. The view of a large industrial warehouse in the background is partially blocked by tractor-trailer rigs parked along the perimeter of the PG&E switching station site. The undeveloped parcel is adjacent to the existing LEU Industrial Substation and on the far left a corner of the existing substation fencing is seen, with the majority of the substation equipment farther to the left and out of this view. In the center of the view, existing LEU service lines can be seen along South Guild Avenue and on the left existing PG&E power lines are silhouetted against the sky above isolated tree canopies near the warehouse and the larger stand of trees surrounding Memorial Park and Cemetery. Given the sensitivity and relatively small number of viewers and the location's industrial use and zoning, the overall visual sensitivity of this site area is considered low.

The Figure 5.1-6b visual simulation shows a close-range view of part of the new LEU Guild Substation on the left and the new PG&E Thurman Switching Station in the center. A perimeter fence screens lower portions of the new facility components. Within the perimeter fence, taller support structures ranging in height from 45 feet to 55 feet and a new PG&E 150-foot-tall communications tower adjacent to the facility on the left are seen primarily against a backdrop of sky. New PG&E TSP structures ranging in height from 130 feet to 145 feet and supporting the new PG&E 230 kV transmission line are partially visible adjacent to the facility at South Guild Avenue, and also extend beyond the existing warehouse in the center of the view. Because of their location adjacent to existing substation facilities, the new LEU substation, PG&E switching station and associated structures would be seen in the context of numerous similar electrical utility structures and substation components. The new PG&E communication tower would appear similar to an existing tower located approximately one mile away to the east. As described previously, the change associated with the projects represents an incremental visual effect in an industrial setting that includes adjacent built structures of similar material and scale. Project components would be seen by a limited number of viewers who generally would be familiar with the surrounding industrial environment. As a result, the PG&E and the LEU portions of the project would not substantially degrade the existing visual character of the landscape at this location.

5.1.4.7 Lighting and Marking

New sources of permanent lighting are limited to security lighting for new and modified PG&E and LEU station facilities. FAA notifications were completed for PG&E's new transmission line structures and the PG&E microwave tower within Thurman Switching Station. A determination of no hazard to air navigation was provided by the FAA for all notifications. Supporting documentation is provided in Appendix G3, FAA Notice and Criteria Tool Results.

5.2 Agriculture and Forestry Resources

This section describes existing conditions and potential impacts on agriculture and forestry resources as a result of construction, operation, and maintenance of the project. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The analysis concludes that impacts on agriculture and forestry resources will be less than significant; the measures described in Section 5.2.4.1 will further reduce the project's less-than-significant impacts. The project's potential effects on agriculture and forestry resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.2-4 and discussed in more detail in Section 5.2.4.

5.2.1 Methodology and Environmental Setting

5.2.1.1 Methodology

Various sources were consulted to complete the analysis for agriculture and forestry resources, including the California Department of Conservation (DOC) Farmland Mapping & Monitoring Program (FMMP) data and maps; Williamson Act contract maps; aerial photographs; County general plans, zoning ordinances, and maps; and environmental impact reports for other projects in the area (DOC 2022). The mapped agricultural and forestry designations and contracted lands were compared with the project area, with focus on the proposed locations for installation of new PG&E transmission poles, which represent the locations with the greatest potential to impact these land uses. A quantitative analysis is provided to determine whether the project will have a substantial impact on Important Farmland or forest land. In addition, field visits to the site were conducted to gather relevant information pertaining to the land uses at the project site and surrounding areas.

5.2.1.2 Environmental Setting

The project would be located within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (refer to Figure 3.1-1). The foothills of the Diablo Range define the southwest corner of the County and the foothills of the Sierra Nevada Range lie along the County's eastern boundary. Major geographic features in the project area include the Mokelumne River, Bear Creek, SR 99, SR 88, and SR 12. The topography in the area generally is flat with rolling hills rising to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project. Northeastern San Joaquin County is predominantly agricultural, with retail wineries, rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

San Joaquin County is in the center of California's vast agricultural heartland, commonly known as the Central Valley. San Joaquin County encompasses approximately 921,600 acres (or about 1,440 square miles) of relatively level, agriculturally productive lands. Agriculture remains the economic base of the County and is a $6.6 billion industry that employs nearly 17% of the County's population (San Joaquin County 2016). San Joaquin County is the top producer, statewide, of asparagus with 24,000 acres of farmland dedicated to this single crop. In recent years, the leading crop in San Joaquin County has shifted to wine grapes (San Joaquin County 2022a). The project alignment would cross through agricultural resources, including grapes, cherries, forage hay, oats, walnut, corn and oats, almonds, and other crops as shown on Figure 5.2-1.

5.2.1.3 Agriculture Resources

Agricultural land is designated by the DOC under the Division of Land Resource Protection, identified in the 2018 FMMP, and defined by CEQA. The FMMP produces Important Farmland Maps, which combine soil quality, available irrigation, and land use information (DOC 2022).

"Agricultural land" is defined by California PRC Section 21060.1 as land that qualifies as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance:

- Prime Farmland has the best combination of physical and chemical characteristics able to sustain long-term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the 4 years prior to the mapping date.
- Unique Farmland consists of lesser-quality soils, but produces the state's leading agricultural crops. This land is usually irrigated, but includes non-irrigated orchards or vineyards as found in some climatic zones in California. Land must have been cropped at some time during the 4 years prior to the mapping date.
- Farmland of Statewide Importance is similar to Prime Farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the 4 years prior to the mapping date.

Additional categories, including Farmland of Local Importance, Grazing Land, Urban and Built-up Land, and Other Land, are identified within Important Farmland Maps. The Rural Land Mapping Project provides more detail on the distribution of various land uses within the Other Land category in nine FMMP counties, including San Joaquin County. For the purposes of this Proponent's Environmental Assessment (PEA), Important Farmland is defined consistent with the California PRC Section 21060.1 definition of "agricultural land," as well as the CEQA Environmental Checklist Form (Appendix G of the CEQA Guidelines), and includes areas designated as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance.

PG&E's Lockeford Substation is located on two parcels (05126022 and 05126023) that primarily are surrounded by active agricultural land use on designated agricultural land. PG&E does not use its existing substation property outside of the existing fence line for agricultural purposes. A portion of the substation fence line expansion area on the northern portion of the substation property is in active agricultural use through direct encroachment onto PG&E substation property. The agricultural use on substation property is categorized as Prime Farmland on the western portion and Farmland of Statewide Importance on the eastern portion. The project's fence line expansion and the temporary construction work area on the eastern portion of the PG&E Lockeford Substation property is outside of active agricultural use. Portions of the new PG&E 230 kV transmission line (approximately 57 new tubular steel poles) and existing PG&E 60 kV lines are located on designated agricultural land. The portions of the PG&E project within the City of Lodi are not on agricultural land. PG&E project-related activities outside of San Joaquin County will occur within existing fenced station facilities, which are not designated agricultural land.

The LEU portion of the project is not on agricultural land, either its temporary construction phase work areas or permanent facilities.

Permanent PG&E 230 kV pole footprints are calculated using the upper end of the estimated diameter at base (approximately 3 to 7 feet) with a 10-foot vegetation clearance from the base of the pole. The permanent footprint of each new 230 kV pole is estimated to be between approximately 0.0095 acre (11.5-foot radius) and approximately 0.0131 acre (13.5-foot radius). Additionally, certain orchard trees that could grow to heights that may interfere with the PG&E line clearance required for safe operation, such as walnut and almond, may be excluded from being replanted or planted as part of the PG&E easement agreement.

The replaced PG&E 60 kV pole would be replaced in kind and there will be no net change to permanent area impacts for the pole adjacent to agricultural use in franchise along East Sargent Road. The expansion of PG&E's Lockeford Substation, and the relocation of the PG&E Rio Oso-Lockeford structure, will occur on existing PG&E substation property that does not have agricultural use. PG&E Thurman Switching Station and the 12 kV extension for secondary station service and the LEU portion of the project are not on agricultural land, either temporary construction phase work areas or permanent facilities.

Important Farmland Acreage

Temporary work areas and access to construct the PG&E portion of the project that intersect designated Important Farmland within unincorporated San Joaquin County total approximately 43.67 acres, as shown in Table 5.2-1 and shown on Figure 5.2-2. Permanent PG&E project components on designated Important Farmland will total approximately 1.41 acres. The proposed PG&E 230 kV transmission line footprint will permanently intersect approximately 0.44 acre of existing Prime Farmland, approximately 0.16 acre of Unique Farmland, and approximately 0.14 acre of existing Farmland of Statewide Importance. The expansion area of PG&E Lockeford Substation on PG&E property with existing direct encroachment agricultural use is mapped as Important Farmland. Approximately 0.67 acre of Important Farmland (0.49 acre of Prime Farmland and 0.18 acre of Farmland of Statewide Importance) would be permanently converted to accommodate the expanded footprint of the substation on PG&E property.

Table 5.2-1. Designated Important Farmland Intersecting the PG&E Portion of the Project

Important Farmland Designation	Approximate Acreage Within PG&E Areas
Prime Farmland	27.30 acres (temporary work areas and access)
	0.44 acre (permanent pole footprint)
	0.49 acre (permanent fenced substation expansion)
Unique Farmland	8.11 acres (temporary work areas and access)
	0.16 acre (permanent pole footprint)
Farmland of Statewide Importance	8.236 acres (temporary work areas and access)
	0.14 acre (permanent pole footprint)
	0.18 acre (permanent fenced substation expansion)
Temporary Ground Disturbance Total	43.67 acres
Permanent Ground Disturbance Total	1.41 acres

Source: California Department of Conservation 2018

Williamson Act Contracts

In San Joaquin County, land uses along the PG&E 230 kV transmission line consist primarily of agricultural areas. As shown on Figure 5.2-3, the proposed PG&E 230 kV alignment traverses Williamson Act parcels (refer to Section 5.2.2 for Williamson Act description) but does not include parcels that are in nonrenewal. Approximately 43.16 acres of the proposed PG&E 230 kV route and temporary work areas and access roads are within areas under Williamson Act contract. The LEU portion of the project is not on land under Williamson Act contract.

Agricultural-Related General Plan Land Use and Zoning Designations

Public utility facilities regulated by the CPUC, such as PG&E, are not subject to local land use and zoning regulations. However, the agricultural-related General Plan land use and zoning designations for land on which the proposed project is located are included for informational purposes and are described in Table 5.2-2 and Table 5.2-3. The City of Lodi is a local agency and must comply with its own local plans and policies.

A general plan establishes a broad range of land use designations for planned land uses and identifies appropriate development guidelines for each designation. General plan designations usually are broader than zoning designations; however, both designations typically are aligned. General plan land use and zoning designations are designed to protect and conserve the value of land use.

San Joaquin County and the City of Lodi incorporate agricultural land use designations within their respective jurisdictions; however, forestry land use designations have not been established in either jurisdiction. Table 5.2-2 identifies the *San Joaquin County General Plan* and *City of Lodi General Plan* land use designations related to agriculture.

Table 5.2-2. Local General Plan Land Use Designations Related to Agriculture

Jurisdiction	General Plan Land Use Designation
San Joaquin County	General Agriculture (A/G): This designation provides for large-scale agricultural production and associated processing, sales, and support uses. The General Agriculture designation typically applies to areas outside land planned for urban development where soils are capable of producing a wide variety of crops and/or supporting grazing. Typical building types include low-intensity structures associated with farming and agricultural processing and sales.
	Limited Agriculture (A/L): This designation provides for small-scale and specialty agricultural production and associated processing, sales, and support uses. The Limited Agriculture designation generally applies to areas outside land planned for urban development where soils are capable of producing a wide variety of crops or supporting grazing. The Limited Agriculture designation will be considered for small-scale agricultural operations where the parcels generally are between 5 and 10 acres in size outside land planned for urban development, and in areas zoned AL-5 and AL-10 as of the adoption of this General Plan. Typical building types include low-intensity structures associated with farming and agricultural processing.
	Agricultural-Urban Reserve (A/UR): This designation provides a reserve for urban development but is not necessary to accommodate development projected during the planning period of the General Plan (2035). The Agricultural-Urban Reserve designation generally applies to areas currently undeveloped or used for agricultural production that are in the logical path of development around an Urban Community or City Fringe Area. This designation may be applied to areas adjacent to cities and in City Fringe Areas if (1) the area identified is designated for urban development in a city general plan, and (2) the County determines that the area represents a reasonable expansion of a city.
	Rural Service Commercial (C/RS): This designation provides for retail and service uses that frequently are required by rural residents and the surrounding agricultural community. In rural communities, the areas may incorporate a mix of local retail uses, professional offices, and general commercial uses. Typical uses include grocery stores, pharmacies, hardware stores, banks, restaurants, and repair services, as well as uses that serve the agricultural community. This designation is permitted only in rural communities. Other development and locational criteria also apply.
City of Lodi	Armstrong Road Agricultural Cluster Study Area: This overlay designation is intended to maintain a clear distinction between Lodi and Stockton. In coordination with relevant public agencies and property owners, the City will continue to study this designation area to determine a strategy to meet this objective.

Sources: City of Lodi 2010, San Joaquin County 2016

Zoning establishes specific land use designations for planned land uses and identifies appropriate development standards for each designation. Zoning designations generally are more specific than an underlying general plan designation; however, both designations typically are aligned. As with general plan land use designations, zoning designations are designed to protect and conserve the value of land use.

San Joaquin County incorporates agricultural zoning designations within its jurisdiction; however, forestry zoning designations have not been established. The City of Lodi has not established agricultural or forestry zoning districts. Table 5.2-3 identifies the zoning designations related to agriculture.

Table 5.2-3. Local Zoning Designations Related to Agriculture

Jurisdiction	Zoning Land Use Designation
San Joaquin County	**General Agriculture (20 Acres):** Established to preserve agricultural lands for the continuation of commercial agriculture enterprises. Minimum parcel size within this zone is 20 acres.
	General Agriculture (40 Acres): Established to preserve agricultural lands for the continuation of commercial agriculture enterprises. Minimum parcel size within this zone is 40 acres.
	General Agriculture (80 Acres): Established to preserve agricultural lands for the continuation of commercial agriculture enterprises. Minimum parcel size within this zone is 80 acres.
	General Agriculture (160 Acres): Established to preserve agricultural lands for the continuation of commercial agriculture enterprises. Minimum parcel size within this zone is 160 acres.
	Limited Agriculture (5 Acres): Intended to recognize and preserve areas that contain existing concentrations of small-scale agricultural operations and dwellings. The minimum parcel size within this zone is 5 acres.
	Limited Agriculture (10 Acres): Intended to recognize and preserve areas that contain existing concentrations of small-scale agricultural operations and dwellings. The minimum parcel size within this zone is 10 acres.
	Agricultural-Urban Reserve: Intended to retain in agriculture those areas planned for future urban development to facilitate compact, orderly growth and to assure the proper timing and economical provision of services and utilities. The minimum parcel size within this zone is 20 acres.
City of Lodi	Not applicable.

Sources: City of Lodi 2010, San Joaquin County 2022b

Agricultural Land Use and Zoning Intersecting the Proposed Project

Within unincorporated San Joaquin County, the proposed PG&E 230 kV transmission line intersects the General Agriculture (A/G) General Plan land use designation and the General Agriculture 40 Acres zoning designation. PG&E Lockeford Substation and the existing PG&E Rio Oso-Lockeford transmission structure to be relocated are on PG&E property having an A/G County General Plan land use designation and a General Agricultural 40 Acres zoning designation. PG&E project-related activities outside of San Joaquin County will occur within existing fenced station facilities, which do not have agricultural land use or zoning.

Within the City of Lodi, PG&E and LEU project components do not intersect agricultural land use or zoning. Refer to Section 5.11, Land Use, for a detailed discussion on land use.

5.2.1.4 Forestry Resources

PRC Section 12220(g) defines "forest land" as land that can support 10% native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.

PRC Section 4526 defines "timberland" as land, other than land owned by the federal government and land designated by the board as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. Timberland Production Zone is land that can be used for growing and harvesting timber and for compatible uses.

San Joaquin County and the City of Lodi have not established lands zoned specifically for forest land, timberland, or timberland production. Furthermore, the proposed project does not intersect any forest land, as defined in PRC Section 12220(g), or timberland, as defined in PRC Section 4526.

PG&E project-related activities outside of San Joaquin County will occur within existing fenced station facilities, which are not forest land, timberland, or in timberland production.

5.2.2 Regulatory Setting

5.2.2.1 Federal

No federal regulations related to agriculture or forestry resources are applicable to the project.

5.2.2.2 State

Williamson Act

The California Land Conservation Act, better known as the Williamson Act (California Government Code [GC] Section 51200 et seq.), is designed to preserve agricultural and open space land. It establishes a program of private landowner contracts that voluntarily restrict land to agricultural and open space uses. In return, Williamson Act parcels receive a lower property tax rate consistent with their actual use instead of their market rate value. Lands under contract also may support uses that are "compatible with the agricultural, recreational, or open-space use of [the] land" subject to the contract (California GC Section 51201[e]). Under GC Section 51238, electric facilities are determined to be a compatible use. Under GC Section 51222, "agricultural land shall be presumed to be in parcels large enough to sustain their agricultural use if the land is…at least 10 acres in size in the case of prime agricultural land."

Farmland Mapping and Monitoring Program

The California DOC, under the Division of Land Resource Protection, has established the FMMP to monitor the conversion of the state's farmland to and from agricultural use (DOC 2020). The goal of the FMMP is to provide consistent and impartial data to decision makers for use in assessing current status, reviewing trends, and planning for the future of California's agricultural land resources. The FMMP maps agriculturally viable lands and designates specific categories.

Forest Taxation and Reform Act

Commercial timberlands are afforded protection through the state's Forest Taxation Reform Act of 1976, which mandates the creation of timberland preserve zones to restrict and protect commercial timber resources.

California Public Resources Code

The California PRC contains the following definitions:

- Agricultural Land: Section 21060.1 defines "agricultural land" as farmland, farmland of statewide importance, or unique farmland, as defined by the United States Department of Agriculture land inventory and monitoring criteria, as modified for California.

- Forest Land: Section 12220(g) defines "forest land" as land that can support 10% native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.
- Timberland: Section 4526 defines timberland as land—other than land owned by the federal government and land designated by the State Board of Forestry and Fire Protection as experimental forest land—that is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees.

5.2.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

Agricultural-related San Joaquin County General Plan land use and zoning designations are provided in Tables 5.2-2 and 5.2-3, respectively. Within the City of Lodi, the proposed project does not intersect agricultural land use or zoning designations. Refer to Section 5.11, Land Use, for a detailed discussion on land use.

San Joaquin County General Plan

San Joaquin County General Plan policies that address agricultural land uses include the following:

San Joaquin General Plan Policy LU-1.7. The County shall consider information from the State Farmland Mapping and Monitoring Program when designating future growth areas in order to preserve prime farmland and limit the premature conversion of agricultural lands.

San Joaquin General Plan Policy LU-2.1. The County shall ensure that new development is compatible with adjacent uses and complements the surrounding natural or agricultural setting.

City of Lodi General Plan

The City of Lodi General Plan policies that address agricultural land uses include the following:

City of Lodi General Plan Policy C-G1. Promote preservation and economic viability of agricultural land surrounding Lodi.

City of Lodi General Plan Policy C-G2. Maintain the quality of the Planning Area's soil resources and reduce erosion to protect agricultural productivity.

City of Lodi General Plan Policy C-P1. Work with San Joaquin County and the City of Stockton to maintain land surrounding Lodi in agricultural use. Encourage the continuation of Flag City as a small freeway-oriented commercial node, with no residential uses.

5.2.3 Impact Questions

The project's potential effects on agriculture and forestry resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.2-4 and discussed in more detail in Section 5.2.4.

Table 5.2-4. CEQA Checklist for Agriculture and Forestry Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural land?	☐	☐	☒	☐
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☒	☐
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined by Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by GC Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest uses?	☐	☐	☐	☒
e) Involve other changes in the existing environment, which, due to their location or nature, could result in the conversion of farmland to nonagricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

5.2.3.1 Additional CEQA Impact Questions

None.

5.2.4 Potential Impact Analysis

Project impacts related to agriculture and forestry resources were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.2.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project-related impacts on agricultural and forest resources were evaluated for each of the criteria listed in Table 5.2-4, as discussed in Section 5.2.4.

5.2.4.2 Applicant-Proposed Measures and Best Management Practices

PG&E will implement the following APM:

APM AGR-1: Minimize Impacts on Active Agricultural Areas.

- Prior to construction, PG&E will provide written notice to landowners outlining construction activities, preliminary schedule, and timing of restoration efforts.
- PG&E will coordinate with landowners to minimize construction-related disruptions to seasonal farming operations. To the extent reasonably feasible, PG&E will schedule construction activities to minimize disruptions to harvesting, planting, and crop maintenance activities, such as fertilizer application and crop dusting.
- PGE& will establish temporary overland access routes and work areas to minimize disruptions to agricultural infrastructure (including irrigation lines, wells, pumps, ditches, and drains) to the greatest extent reasonably feasible. If necessary, and upon agreement between PG&E and the landowners, agricultural infrastructure will be protected with temporary materials (for example, steel plates, blankets) to prevent inadvertent damage during construction. Where feasible, overland routes within orchards and vineyards will be aligned with the planting layout or otherwise to minimize tree and vine removal.
- If trees or other crops cannot be avoided by PG&E as specified previously, impacts will be limited to the minimum necessary to construct the project, and PG&E will provide the agricultural owner with fair market compensation for crops removed, crops unable to be harvested, lost planting cycles, and any damaged infrastructure.
- PG&E will restore agricultural land temporarily impacted by construction to pre-project conditions following completion of construction, including areas impacted by establishment of temporary staging, laydown and storage areas, overland access, guard structures, and pull sites. If grading occurs in actively planted agricultural areas, topsoil will be stockpiled and used to backfill excavations to pre-existing grade when construction is complete. Restoration of sites will involve removing any rock or material imported to stabilize the site, replacing topsoil, decompacting any soil that has been compacted by heavy equipment, and replanting agricultural crops. The responsibility of performing these various tasks may be stipulated in an agreement between PG&E and the landowner. If a landowner is better equipped or prefers to replant crops or perform other tasks themselves, then PG&E will provide just compensation for this work.

5.2.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of

remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the FMMP, to nonagricultural use? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

The proposed PG&E project components have been designed to minimize impacts to agricultural resources. Impacts on Important Farmland were analyzed using 2018 FMMP data compared with the proposed project's preliminary engineering design and construction and maintenance work areas and access. For the purposes of this analysis, and as discussed in Section 5.2.1.3, Important Farmland is considered any land designated by 2018 FMMP data as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance (DOC 2022). Acreage is calculated considering temporary and permanent ground disturbance rather than general ROW.

New or modified PG&E easements would be required between property owners and PG&E, allowing PG&E to construct, operate, and maintain the new infrastructure. Upon the completion of construction of PG&E project components, all temporary ground disturbance, estimated to be approximately 43.67 acres in Important Farmland, would be returned to preconstruction condition, unless otherwise requested by the landowners. APM AGR-1, presented previously, would provide the agricultural owner with fair market compensation for crops removed, crops unable to be harvested or replanted, lost planting cycles, and damaged infrastructure, and restoration of impacted agriculture land during PG&E construction activities. Therefore, temporary impacts are not considered a conversion of Farmland in this analysis.

Crops would be precluded from growing typically within 10 feet of the base of a new PG&E transmission structure. Additionally, certain orchard trees that could grow to heights that may interfere with the PG&E line clearance required for safe operation, such as walnut and almond, may be excluded from being replanted or planted as part of the PG&E easement agreement. However, the primary crop that would be temporarily and permanently removed by the proposed PG&E project components is grapes. Approximately 28 almond trees, approximately 17 walnut trees, approximately 73 cherry trees, approximately 154 apple trees, approximately 80 olive trees, and approximately 4,089 grape vines are estimated to be removed to establish work areas and access (refer to Table 3.5-5). Approximately 7 almond trees, approximately 42 walnut trees, approximately 37 cherry trees, approximately 94 apple trees, approximately 108 olive trees, and approximately 2,695 grape vines are estimated to be removed permanently with the installation and operation of the new PG&E 230 kV line (refer to Table 3.5-5).

The construction the new PG&E transmission lines (approximately 57 tubular steel pole structures in Important Farmland) would permanently convert approximately 0.44 acre of Prime Farmland, approximately 0.16 acre of Unique Farmland, and approximately 0.14 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure (refer to Table 5.2-1). For the modification of the existing PG&E Lockeford Substation on PG&E property, approximately 0.49 acre of Prime Farmland and approximately 0.18 acre of Farmland of Statewide Importance would be permanently converted to accommodate the expanded footprint of the substation on the north side of the existing facilities fence line, where agricultural use occurs through direct encroachment. A total of approximately 1.41 acres of Important Farmland would be permanently impacted and permanently converted to nonagricultural use.

Operation and maintenance of PG&E project components would not convert Farmland to nonagricultural use. Where possible, existing access roads would be used for maintenance of the proposed PG&E project components, which would occur every 5 years over the 75-year transmission line life span. While there is the potential for maintenance overland access through active agricultural area, it is unlikely to occur given the project is installing new transmission line components that require infrequent ground-based inspection and that inspection is not likely to require a vehicle to be located at a structure base. Should

agricultural impacts occur during operation and maintenance, restoration and compensation will follow the terms of the property easement agreement between PG&E and the landowner.

Upon the completion of construction of PG&E project components, all temporary ground disturbance would be returned to preconstruction condition, unless otherwise requested by the landowners. APM AGR-1, presented previously, would provide the agricultural owner with fair market compensation for crops removed, crops unable to be harvested or replanted, lost planting cycles, and damaged infrastructure, and restoration of impacted agriculture land during PG&E construction activities. Therefore, temporary impacts are not considered a conversion of Farmland in this analysis. Operation and maintenance of PG&E project components would not convert Farmland to nonagricultural use.

As mentioned in Section 5.2.1.1, for the purposes of this impact analysis, Important Farmland is considered any land designated by 2018 FMMP data as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance. Of the 1.41 acres of Important Farmland permanently impacted by the project, the acreage of Prime Farmland that will be permanently converted to nonagricultural land is 0.93 acre (0.44 acre from permanent pole footprint and 0.49 acre from permanent substation expansion), which is less than the significance threshold of 10 acres as noted in California GC Section 51222 as the size of a parcel large enough to sustain agricultural use in the case of prime agricultural land.

LEU Potential Impact Discussion

The LEU portion of the project would not temporarily impact or result in permanent conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide Importance to nonagricultural uses associated with LEU's electrical infrastructure (refer to Table 5.2-1). Therefore, the LEU portion of the project would have no impact.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

The PG&E 230 kV transmission line installation, Lockeford Substation expansion, 60 kV line reconfiguration, and temporary construction areas (laydown yards, pull/tension sites, overland routes) will occur partially on lands zoned for agriculture and agricultural land under Williamson Act contracts (Figure 5.2-3). During project construction, portions of these areas totaling approximately 43.16 acres will be taken out of production to accommodate PG&E construction activities, delivery and staging of construction materials, installing poles and lines, and construction crew access. Approximately 0.55 acre of land under Williamson Act contracts will be permanently taken out of production for the footprint of the TSPs. The TSPs will not prevent ongoing use of the properties under the Williamson Act for agricultural use. Electric utility facility construction and maintenance activities are considered compatible uses of contracted Williamson Act lands under GC Section 51238. Given this consistency, that potential project construction and maintenance activities are temporary and will have minimal impacts on Williamson Act land, and the small amount of permanent conversion of land under Williamson Act contract, the impact will be less than significant.

LEU Potential Impact Discussion

The LEU portion of the project will not occur on lands zoned for agriculture and agricultural land under Williamson Act contracts. Therefore, no impact will occur.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))? *No Impact.*

PG&E Potential Impact Discussion

No areas of designated forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), or timberland zoned for timberland production (as defined by GC Section 51104[g]) would be impacted by the proposed project. Therefore, the proposed project would not conflict with the zoning or cause rezoning of forest or timberland.

LEU Potential Impact Discussion

No areas of designated forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), or timberland zoned for timberland production (as defined by GC Section 51104[g]) would be impacted by the proposed project. Therefore, the proposed project would not conflict with the zoning or cause rezoning of forest or timberland.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use? *No Impact.*

PG&E Potential Impact Discussion

No areas of designated forest land (as defined in PRC Section 12220[g]) would be impacted by the proposed project. Therefore, the proposed project would not result in the loss of forest land or conversion of forest land to non-forest use.

LEU Potential Impact Discussion

No areas of designated forest land (as defined in PRC Section 12220[g]) would be impacted by the proposed project. Therefore, the proposed project would not result in the loss of forest land or conversion of forest land to non-forest use.

e) Would the project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to nonagricultural use or conversion of forest land to non-forest use? *No Impact.*

PG&E Potential Impact Discussion

Implementation of the project will not discourage the continued use of adjacent land for agricultural use. Rather, the project will improve power service reliability for existing customers in the area, including agricultural users, so that these uses can continue operating with a more reliable power source. The project will not induce growth that would result in the conversion of Important Farmland to nonagricultural or non-forest use; therefore, there will be no impact.

LEU Potential Impact Discussion

Implementation of the project will not discourage the continued use of adjacent land for agricultural use. Rather, the project will improve power service reliability for existing customers in the area, including agricultural users, so that these uses can continue operating with a more reliable power source. The project will not induce growth that would result in the conversion of Important Farmland to nonagricultural or non-forest use; therefore, there will be no impact.

5.3 Air Quality

This section discusses potential air quality issues associated with the project construction, operation, and maintenance, including both regional and site-specific concerns. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. Air quality emissions will occur within the San Joaquin Valley Air Basin (SJVAB) under the jurisdiction of the San Joaquin Valley Air Pollution Control District (SJVAPCD). This air quality impact assessment follows Appendix G of the CEQA Guidelines and the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015) for activities within its jurisdiction.

Primary air emissions from the project includes construction emissions associated with fugitive dust, heavy construction equipment and helicopter usage, haul trucks, and construction workers commuting to and from the project site. Air emissions evaluated include reactive organic gases (ROG), carbon monoxide (CO), nitrogen oxides (NO_X), particulate matter less than 10 micrometers in aerodynamic diameter (PM_{10}), particulate matter less than 2.5 micrometers in aerodynamic diameter ($PM_{2.5}$), sulfur dioxide (SO_2), and diesel particulate matter (DPM). Greenhouse gas (GHG) emissions are discussed separately in Section 5.8. The analysis concludes that impacts to air quality will be less than significant. Incorporation of the measures described in Section 5.3.4.2 will further minimize potential less-than-significant impacts.

In this section, the Regulatory Setting precedes the Environmental Setting to provide context for the air quality plans and standards environmental setting discussion.

5.3.1 Regulatory Setting

5.3.1.1 Federal

Clean Air Act and National Ambient Air Quality Standards

The federal Clean Air Act (CAA) establishes the statutory framework for regulation of air quality in the United States. Pursuant to this act, the U.S. Environmental Protection Agency (EPA) has established various regulations to achieve and maintain acceptable air quality, including the adoption of National Ambient Air Quality Standards (NAAQS), mandatory state implementation plan (SIP) or maintenance plan requirements to achieve and maintain NAAQS, and emission standards for both stationary and mobile sources of air pollution. NAAQS were first established in 1970 for six pollutants: CO, ozone (O_3), PM_{10} and $PM_{2.5}$, nitrogen dioxide (NO_2), SO_2, and lead. These pollutants are commonly referred to as criteria pollutants because they are considered the most prevalent air pollutants known to be hazardous to human health. The NAAQS contain primary standards that protect public health and secondary standards that protect public welfare. A summary of the NAAQS and the California Ambient Air Quality Standards (CAAQS) is provided in Table 5.3-1.

Table 5.3-1. National and California Ambient Air Quality Standards

Pollutant	Averaging Time	CAAQS[b]	NAAQS[a]	
			Primary[c]	Secondary[d]
Ozone	8 hours 1 hour	0.070 ppm 0.09 ppm	0.070 ppm –	0.070 ppm –
PM_{10}	Annual arithmetic mean 24 hours	20 µg/m^3 50 µg/m^3	– 150 µg/m^3	– 150 µg/m^3
$PM_{2.5}$	Annual arithmetic mean 24 hours	12 µg/m^3 –	12 µg/m^3 35 µg/m^3	15 µg/m^3 35 µg/m^3
CO	8 hours 1 hour	9 ppm 20 ppm	9 ppm 35 ppm	– –

Pollutant	Averaging Time	CAAQS[b]	NAAQS[a]	
			Primary[c]	Secondary[d]
NO_2	Annual arithmetic mean 1 hour	0.03 ppm 0.18 ppm	0.053 ppm 0.100 ppm	0.053 ppm –
SO_2	24 hours 3 hours 1 hour	0.04 ppm – 0.25 ppm	– – 0.075 ppm[e]	– 0.5 ppm –
Lead[f]	Calendar quarter Rolling 3-month average 30-day average	– – 1.5 µg/m^3	1.5 µg/m^3 (certain areas) 0.15 µg/m^3 –	1.5 µg/m^3 – –
Visibility-reducing particles	8 hours	[g]	–	–
Sulfates	24 hours	25 µg/m^3	–	–
Hydrogen sulfide	1 hour	0.03 ppm	–	–
Vinyl chloride[f]	24 hours	0.01 ppm	–	–

Source: California Air Resources Board (CARB), 2016a. https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf

[a] NAAQS other than ozone, PM, and those based on annual averages or annual arithmetic means are not to be exceeded more than once per year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, is equal to or less than the standard.

[b] CAAQS for ozone, CO (except Lake Tahoe), SO_2 (1-hour and 24-hour), NO_2, and suspended particulate matter (PM_{10}, $PM_{2.5}$, and visibility-reducing particles) are not to be exceeded. All others are not to be equaled or exceeded.

[c] NAAQS Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[d] NAAQS Secondary Standards: The levels of air quality necessary to protect the public welfare from known or anticipated adverse effects of a pollutant.

[e] Final rule signed June 2, 2010. To attain this standard, the 3-year average of t^{he} 99th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 75 parts per billion.

[f] CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined. CARB made this determination following the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[g] In 1989, CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Notes:

µg/m^3 = microgram(s) per cubic meter
ppm = part(s) per million (by volume)

EPA classifies areas as being in attainment or nonattainment with the NAAQS for each criteria pollutant. A region that meets the NAAQS for a pollutant is designated as being in attainment for that pollutant. A region that does not meet the NAAQS for a pollutant is designated as being in nonattainment for that pollutant. An area that was previously designated as a nonattainment area but has met the standard and has been reclassified by EPA as in attainment with a maintenance plan is a maintenance area.

The 1977 CAA amendment requires each state to develop and maintain an SIP for each nonattainment criteria pollutant. The SIP serves as a tool to help avoid and minimize emissions of nonattainment criteria pollutants and their precursor pollutants and achieve compliance with the NAAQS. In 1990, the CAA was amended to strengthen regulation of both stationary and mobile emission sources.

Toxic Air Contaminant and Odorous Emissions

In addition to the criteria pollutants, EPA also regulates emissions of hazardous air pollutants (HAPs) or toxic air contaminants (TACs). TACs include airborne inorganic and organic compounds that can have both

short-term (acute) and long-term (carcinogenic, chronic, and mutagenic) impacts on human health. Odorous compounds include those that can be detected by the human olfactory system, such as hydrogen sulfide and other sulfurous compounds.

Controlling air toxic emissions became a national priority with the passage of the CAA amendments in 1990, when Congress mandated that EPA regulate 188 air toxics. Prior to the 1990 CAA amendments, national emission standards were established for benzene, vinyl chloride, radionuclides, mercury, asbestos, beryllium, inorganic arsenic, radon 222, and coke oven emissions. The 1990 CAA amendments require EPA to set standards for categories and subcategories of sources that emit HAPs, rather than for the pollutants themselves. EPA began issuing the new standards in November 1994. National emission standards set before 1991 remain applicable.

Odorous emissions typically are regulated by local air districts under nuisance prohibitory rules. Because odor generally is a subjective phenomenon that affects people differently, development of odor emissions standards has proven impractical. Therefore, regulators have relied on the nuisance standard to assist in enforcing control of odorous emissions. Determination of the presence of a nuisance emission is based on the number of odor complaints received by the air district during an odor episode.

5.3.1.2 State

California Clean Air Act and Air Quality Standards

The California Air Resources Board (CARB) is the state agency responsible for California air quality management, including establishment of CAAQS, mobile source emission standards, and GHG regulations, as well as oversight of regional air quality districts and preparation of implementation plans, including regulations for stationary sources of air pollution. The CAAQS generally are more stringent, except for the 1-hour NO_2 and SO_2 standards, and include more pollutants than the NAAQS (refer to Table 5.3-1). California specifies four additional criteria pollutants: visibility-reducing particles, sulfates, hydrogen sulfide, and vinyl chloride. Similar to the EPA, CARB designates counties in California as being in attainment or nonattainment for the CAAQS.

The California Clean Air Act, which was approved in 1988, requires each local air district, where ambient concentrations violate the CAAQS, to prepare an air quality management plan (AQMP) to achieve compliance with the CAAQS as a part of the SIP. CARB has ultimate responsibility for the SIP for nonattainment pollutants but relies on each local air district to adopt mandatory statewide programs and provide additional strategies for sources under its jurisdiction. The SIPs are a compilation of new and previously submitted plans, programs (monitoring, modeling, and permitting), district rules, state regulations, and federal controls. Local air districts and other agencies prepare SIP elements and submit them to CARB for approval. CARB forwards SIP revisions to EPA for approval and publication in the Federal Register. CARB adopted its latest SIP document in September 2022 that included the 2022 State SIP Strategy (CARB 2022a) with measures and commitments to reduce emissions from state-regulated sources to support attainment of the 70 parts per billion ozone standard in all nonattainment areas across California.

Sierra Club v. County of Fresno (The Friant Ranch Decision)

In *Sierra Club v. County of Fresno* 6 Cal.5th 502, the California Supreme Court held that portions of the air quality analysis in Fresno County's EIR for the 942-acre Friant Ranch Specific Plan violated CEQA (Supreme Court of California 2018). The case reviewed the regional air quality analysis contained in the EIR for the proposed Friant Ranch development in unincorporated Fresno County. Located in the San Joaquin Valley Air Basin, the project area is currently designated as nonattainment for multiple NAAQS and CAAQS, including O_3, $PM_{2.5}$, and PM_{10}. The Court ruled that the air quality analysis failed to adequately disclose the nature and magnitude of long-term air quality impacts from project-related emissions of criteria pollutants and precursors "in sufficient detail to enable those who did not participate in its preparation to understand and consider meaningfully the issues the proposed project raises." The Court noted that the air quality analysis did not provide a discussion of the foreseeable adverse effects of

project-generated emissions on Fresno County's likelihood of exceeding the NAAQS and CAAQS for criteria air pollutants, nor did it explain why it was not "scientifically possible" to determine such a connection.

Air Toxics

California's Air Toxic "Hot Spots" Information and Assessment Act (AB 2588) identifies toxic air contaminant hot spots where emissions from specific sources may expose individuals to an elevated risk of adverse health effects, particularly cancer or reproductive harm. Toxic air contaminants also are referred to as hazardous air pollutants (HAPs). AB 2588 requires that a business or other establishment identified as a significant source of toxic emissions provide the affected population with information about health risks posed by the emissions.

CARB has adopted the *Diesel Risk Reduction Plan* (CARB 2016b) and a series of airborne toxic control measures for mobile and stationary sources, which are intended to reduce overall diesel exhaust emissions in California.

CARB also adopted airborne toxic control measures for controlling naturally occurring asbestos and CARB and local air districts have authority to enforce the federal National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations for asbestos.

5.3.1.3 Regional

Air District Regulations

The project is located within the jurisdiction of the SJVAPCD. The SJVAPCD is the regional agency charged with preparing, adopting, and implementing emission control measures and standards for stationary sources of air pollution pursuant to delegated state and federal authority. Because the project will not involve construction of new stationary sources, there are no permitting regulations relevant to the project.

Under the California Clean Air Act, the SJVAPCD is required to develop an air quality plan to achieve and maintain compliance with federal and state nonattainment criteria pollutants within the air district. Jurisdictions of nonattainment areas also are required to prepare an AQMP that includes strategies for achieving attainment. The SJVAPCD has approved AQMPs demonstrating how the SJVAB will reach attainment with the federal 1-hour and 8-hour ozone, PM_{10}, and $PM_{2.5}$ and California CO standards. SJVAPCD air quality plans are discussed in Section 5.3.2.3.

Regulation VIII, Fugitive PM_{10} Prohibition, contains rules developed pursuant to EPA guidance for serious PM_{10} nonattainment areas. Rules included under this regulation aim to reduce ambient concentration of PM_{10} by the following methods: preventing, reducing, or mitigating fugitive dust emissions from construction sites during excavation, demolition, and other earthmoving activities; regulating bulk material handling, storage, and transport; preventing carryout and trackout; and requiring construction crews to drive in paved and unpaved vehicle and equipment traffic areas. An SJVAPCD-approved Dust Control Plan is required for projects in which construction-related activities will disturb 5 or more acres of surface area. The total amount of area disturbed during project construction would be greater than 5 acres. The project will require a Dust Control Plan that identifies the fugitive dust sources at the construction site and describes all of the dust control measures to be implemented before, during, and after any dust-generating activity for the duration of the project.

The SJVAPCD regulates asbestos-containing materials (ACM) for demolition and renovations of regulated facilities. Regulated facilities are defined by the SJVAPCD as:

Regulated facilities (facilities subject to NESHAP) include all commercial buildings, residential buildings with more than four dwelling units, other structures, and non-portable equipment.

In addition, facilities are further defined as "all structures, installations, buildings and equipment." The SJVAPCD considers demolition to include the removal of any structural load-bearing member from a facility, or the separation of a structure from its foundation prior to relocation.

An Asbestos Notification Form is required for the following:

- Any regulated demolition, regardless of whether asbestos is present
- Any regulated renovation in which the following will be disturbed:
    - 160 square feet or more of regulated ACM, or
    - 260 linear feet or more of regulated asbestos-containing pipe insulation

For facilities subject to NESHAP, the SJVAPCD will issue a Demolition Permit Release Form when SJVAPCD has been properly noticed of the work that is to occur. For all demolitions, including facilities exempt from NESHAP, a Demolition Permit Release Form must be signed by the SJVAPCD before obtaining a building department demolition permit. The project will comply with the asbestos survey and notification requirements for its demolition activities.

Indirect Source Review

SJVAPCD adopted the Indirect Source Review Rule (ISR) (Rule 9510) to meet emission reduction commitments in the PM_{10} and ozone attainment plans (SJVAPCD 2017). The ISR applies to development projects where construction exhaust emissions equal or exceed 2.0 tons per year of NO_x or 2.0 tons of PM_{10}. Unless exempt, projects are subject to the ISR and must submit an Air Impact Assessment Application to the SJVAPCD, with commitments to reduce construction exhaust NO_x and PM_{10} emissions by 20% and 45%, respectively. If a project does not achieve the onsite reductions required by the ISR, the project must pay offsite mitigation fees (SJVAPCD 2017).

SJVAPCD CEQA Guidelines

The Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) (SJVAPCD 2015a) assists lead agencies and project applicants in evaluating the potential air quality impacts of projects in the SJVAB. The GAMAQI recommends procedures for evaluating potential air quality impacts for the CEQA environmental review process and provided guidance on evaluating short-term (construction) and long-term (operational) air emissions. The GAMAQI provides recommended air quality emission thresholds for CEQA purposes and was used in the preparation of this PEA.

5.3.1.4 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, the PG&E portion of the project is not subject to local (city and county) discretionary regulations except for air districts with respect to air quality regulations.

City of Lodi

The City of Lodi is a local agency and must comply with its own local plans and policies. The City of Lodi has General Performance Standards under Regulation 17.14.040:

17.14.040 – General Performance Standards – All land uses activities, and processes shall be operated and maintained so as to not be injurious to public health, safety, or welfare, and to comply with the following standards: A. Air Emissions. No visible dust, gasses, or smoke shall be emitted, except as necessary for the heating or cooling of structures, and the operation of motor vehicles on the site.

Applicable policies from the Lodi General Plan include the following:

Policy C-G11: Support land use, transportation management, infrastructure, and environmental planning programs that reduce vehicle emissions and improve air quality.

Policy C-G12: Minimize the adverse effects of construction-related air quality emissions and Toxic Air Contaminants on human health.

Policy C-P48: Require all construction equipment to be maintained and tuned to meet appropriate EPA and CARB emission requirements and when new emission control devices or operational modifications are found to be effective, such devices or operational modifications are to be required on construction equipment.

Policy C-P50: Require contractors to implement dust suppression measures during excavation, grading, and site preparation activities. Techniques may include but are not limited to: site watering or application of dust suppressants; phasing or extension of grading operations; covering of stockpiles; suspension of grading activities during high wind periods (typically winds greater than 25 mph); and revegetation of graded areas.

San Joaquin County

San Joaquin County regulates air quality under Chapter 9-1025.3:

9-1025.3 – Air Quality. All emissions shall be subject to the rules and regulations of the San Joaquin Valley Air Pollution Control District.

5.3.1.5 Air Permits

SJVAPCD Rule 2010 requires stationary emission sources to obtain permits for the construction and operation unless exempt. Because no stationary sources of air pollution are being constructed as part of the project, no air permits are required.

5.3.2 Environmental Setting

5.3.2.1 Regional Setting

The project would be located in the SJVAB in the southern half of California's Central Valley. The SJVAB encompasses an area approximately 250 miles long that averages 35 miles wide, shaped like a narrow bowl. The SJVAB is bordered by the Sierra Nevada Mountains to the east (8,000 to more than 14,000 feet in elevation), the Coast Ranges to the west (averaging 3,000 feet in elevation), and the Tehachapi Mountains to the south (6,000 to 7,981 feet in elevation). There is a slight downward elevation gradient from Bakersfield in the southeast end (elevation 408 feet) to sea level at the northwest end where the Central Valley opens to San Francisco Bay at Carquinez Straits (SJVAPCD 2015a).

The SJVAB is in a Mediterranean climate zone. The SJVAB is typically arid in the summer; cool temperatures and tule fog (a dense ground fog) are prevalent in the winter and fall. Average high temperatures in the summer are in the mid 90°F range; average low temperatures in winter are in the high 40°F range. January is typically the wettest month of the year, with an average of approximately 2 inches of rain. Wind direction typically is from the northwest with speeds around 30 mph. The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air that can result in temperature inversions in the Central Valley. Wintertime high-pressure events often last many weeks, with surface temperatures in the 30°F range. During these events, fog can be present, and inversions can be strong. Winter inversions can inhibit vertical mixing of pollutants to a few hundred feet (SJVAPCD 2015a).

5.3.2.2 Ambient Air Quality

CARB maintains ambient air monitoring stations for criteria pollutants throughout California. The air monitoring stations closest to the project area are at University Park and on Hazelton Street in Stockton.

Because the University Park Station only has data since 2021, the air monitoring data from the Hazelton Street Station are used in this study. Table 5.3-2 summarizes available data from the Hazelton Street Station during the last 3 years. As shown, multiple exceedances of the NAAQS and CAAQS, primarily for ozone and particulate matter, have recently been recorded (2019 to 2021).

Table 5.3-2. Ambient Criteria Pollutants Concentration Data at Stockton Hazelton Street

Pollutant	Metric	Maximum Concentrations and Frequencies of Exceeded Standards		
		2019	2020	2021
O_3	Maximum 1-Hour Concentration (ppm)	0.098	0.100	0.085
	Days > 0.090 ppm (CAAQS)	1	1	0
	Maximum 8-Hour Concentration (ppm)	0.077	0.074	0.073
	Days > 0.070 ppm (NAAQS/CAAQS)	2	2	1
CO	Maximum 1-Hour Concentration (ppm)	3.1	2.7	2.2
	Days > 20 ppm (CAAQS)	0	0	0
	Days > 35 ppm (NAAQS)	0	0	0
	Maximum 8-Hour Concentration (ppm)	1.4	2.2	1.6
	Days > 9.0 ppm (NAAQS/CAAQS)	0	0	0
NO_2	Maximum 1-Hour Concentration (ppm)	0.0723	0.0600	0.0584
	Days > 0.18 ppm (CAAQS)	0	0	0
	Days > 0.10 ppm (NAAQS)	0	0	0
	Annual Average Concentration (ppm)	0.011	0.011	NA
	> 0.030 ppm (CAAQS)	No	No	NA
PM_{10}	Maximum 24-Hour Concentration (µg/m^3)	89.1	148.5	199.1
	Days > 50 µg/m^3 (CAAQS)	7	12	41
	Days > 150 µg/m^3 (NAAQS)	0	0	1
	Annual Average Concentration (µg/m^3)	25.2	33.5	36.8
	> 20 µg/m^3 (CAAQS)	Yes	Yes	Yes
$PM_{2.5}$	Maximum 24-Hour Concentration (µg/m^3)	50.1	130.7	58.2
	Days > 35 µg/m^3 (NAAQS)	6	21	8
	Annual Average Concentration (µg/m^3)	9.3	14.0	NA
	> 12 µg/m^3 (NAAQS/CAAQS)	No	Yes	Yes

Source: CARB 2022b

Notes:
> = greater than
NA = data not available

Attainment status for the project area is summarized in Table 5.3-3. Under the NAAQS, the area is currently designated as nonattainment for the ozone and $PM_{2.5}$ standards. The SJVAB is a maintenance area for the federal PM_{10} standard. The area is in attainment for the federal CO and NO_2 standards and unclassified for SO_2 and lead. Under the CAAQS, the project area is currently designated as nonattainment for ozone, PM_{10}, and $PM_{2.5}$, and as attainment or unclassified for other pollutants.

Table 5.3-3. Attainment Status for the Project Area

Pollutant	NAAQS	CAAQS
Ozone	Nonattainment	Nonattainment
PM_{10}	Maintenance	Nonattainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Maintenance	Attainment
NO_2	Attainment/Unclassified	Attainment
SO_2	Attainment/Unclassified	Attainment
Lead (particulate)	Attainment/Unclassified	Attainment
Hydrogen Sulfide	No Standard	Unclassified
Sulfates	No Standard	Attainment
Visibility-Reducing Particles	No Standard	Unclassified
Vinyl chloride	No Standard	Attainment

Sources:

CARB 2022c, https://www.arb.ca.gov/desig/changes.htm#summaries, accessed August 20, 2022.

EPA 2022, https://www3.epa.gov/airquality/greenbook/anayo_ca.html, accessed August 20, 2022.

5.3.2.3 Air Quality Plans

Air quality planning documents for pollutants for which the Program Area is classified as a federal nonattainment or maintenance area are developed by SJVAPCD and CARB and approved by EPA. The following is a summary of the current SJVAPCD air quality plans:

- Ozone Plans:
  - *2007 Ozone Plan for the San Joaquin Valley Air Basin* (SJVAPCD, 2007a): The plan was adopted by SJVAPCD in April 2007 and approved by CARB in June 2007. The plan addresses the NAAQS 1997 8-hour ozone standard of 84 parts per billion. The plan was revised in June 2011, and EPA approved the revised plan on March 1, 2012.
  - 2013 Ozone Plan (SJVAPCD, 2013): The plan was prepared for EPA's revoked 1997 1-hour ozone standard. The plan was approved by CARB on November 21, 2013.
  - *2016 Plan for the 2008 8-Hour Ozone Standard* (SJVAPCD, 2016a): CARB approved the plan on July 21, 2016, and submitted it to EPA for approval. The plan sets out the strategy to reduce NO_x emissions by more than 60 percent between 2012 and 2031 and to bring the San Joaquin Valley into attainment of the NAAQS 2008 8-hour ozone standard no later than December 31, 2031.
- PM_{10} Plan:
  - *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD, 2007b): The plan provides verification of continued PM_{10} attainment, a contingency plan, an attainment emissions inventory, a maintenance demonstration, and a demonstration of California's monitoring network.
- $PM_{2.5}$ Plans:
  - *2008 $PM_{2.5}$ Plan for the San Joaquin Valley Air Basin* (SJVAPCD, 2008): CARB approved the plan on May 22, 2008. The plan sets out the strategy to attain the federal 1997 annual $PM_{2.5}$ standard by 2015. The plan was amended on April 28, 2011, and EPA approved the revised 2008 $PM_{2.5}$ Plan on November 9, 2011, except for the contingency measures.

- *2012 $PM_{2.5}$ Plan* (SJVAPCD, 2012): CARB approved the plan January 24, 2013. The plan sets out the strategy to attain the federal 2006 24-hour $PM_{2.5}$ standard of 35 µg/m^3 by 2019. SJVAPCD adopted a supplemental document to the *2012 $PM_{2.5}$ Plan* on September 18, 2014, which was approved by CARB on October 24, 2014.
- *2015 $PM_{2.5}$ State Implementation Plan* (SJVAPCD, 2015b): CARB approved the plan on May 21, 2015. The plan sets out the strategy to attain the federal 1997 24-hour $PM_{2.5}$ standard by 2018 and the 1997 annual $PM_{2.5}$ standard by 2020.
- *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD, 2016b): SJVAPCD adopted the plan on September 15, 2016. The plan addresses the EPA federal annual $PM_{2.5}$ standard of 12 µg/m^3 established in 2012. The plan includes an attainment impracticability demonstration and request for reclassification of the Central Valley from moderate nonattainment to serious nonattainment.
- *2018 $PM_{2.5}$ Plan* (SJVAPCD): This is a single, comprehensive attainment plan integrates the 1997, 2006, and 2012 NAAQS $PM_{2.5}$ standards.

- CO Maintenance Plan:
  - *Final Carbon Monoxide Redesignation Request and Maintenance Plan for Ten Federal Planning Area*s (CARB, 1998): CARB approved the plan, which covers SJVAPCD as part of the SIP for CO. EPA approved the revision on June 1, 1998. On July 22, 2004, CARB approved an update to the SIP that (1) shows how the 10 areas will maintain the standard through 2018, (2) revises emission estimates, and (3) establishes new on-road motor vehicle emission budgets for transportation conformity purposes.

5.3.2.4 Sensitive Receptors

Sensitive receptors include hospitals, residences, schools, daycare facilities, elderly housing, and convalescent facilities. These are places where the occupants may be relatively more susceptible to the adverse effects of exposure to TAC emissions and other pollutants. The land uses along the new PG&E 230 kV lines within unincorporated San Joaquin County are mostly agricultural land and open space/resource conservation. The majority of the agricultural land is vineyard and associated support facilities. Within the City of Lodi, land uses along the new PG&E 230 kV lines, reconfigured 60 kV lines and the switching station are industrial and public/quasi-public. LEU's Industrial and Guild substations are bound by railroads and industrial facilities. The remainder of the proposed project within the City of Lodi is located on industrial-designated land.

The majority of the project area along the PG&E transmission line construction sites are open spaces in rural areas with sparsely located residences. There are approximately 92 residences located within 1,000 feet of the PG&E transmission line alignment. LEU's portion of the project is located approximately 760 feet from a residence where the eastern end of the 12 kV feeder line conversion to underground would occur. There are no non-residential receptors such as hospitals, schools, daycare centers within 1,000 feet from the project sites. Residential sensitive receptors within 1,000 feet of the project alignment are shown on Figure 5.3-1.

5.3.3 Impact Questions

5.3.3.1 CEQA Checklist

The project's potential effects related to air quality were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.3-4 and discussed in more detail in Section 5.3.4.

Table 5.3-4. CEQA Checklist for Air Quality

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

5.3.3.2 Additional CEQA Impact Questions

None.

5.3.4 Potential Impact Analysis

Project impacts related to air quality were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.3.4.1 Methodology

Air quality impacts were assessed following based on Appendix G of the CEQA Guidelines and SJVAPCD's *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015). Construction and operation emissions were quantified and compared to the SJVAPCD CEQA thresholds to determine the level of impacts from the project.

Construction and Operation Emissions

Construction emissions of ROG, CO, NOx, SO_2, PM_{10}, and $PM_{2.5}$ were evaluated. Construction emissions from off-road construction equipment and fugitive dust for the PG&E portion of the project were estimated using the methodologies and emission factors described in California Emission Estimator Model (CalEEMod) User's Guide (CAPCOA 2022). On-road vehicle emission factors were obtained from EMFAC2021 (CARB 2022d). Helicopter emissions were estimated using emissions factors obtained from the Swiss Federal Office of Civil Aviation (FOCA) (FOCA 2009).

Construction of the project at PG&E sites would start in 2026 and complete in 2029. Projected construction emissions were estimated for each year based on the anticipated project schedule and activities at each of the project construction site. While the construction activities would occur in 2026 to 2029, equipment and vehicle emission factors of 2016 were used for all construction years to be conservative. Operation emissions from PG&E portion of the project were estimated for the O&M activities in 2030 and beyond using the same methodology as discussed previously, with 2030 emission factors.

Construction and operation emissions calculations for the PG&E portion of the project are provided in Appendix B1a. Potential fugitive dust control emissions would be reduced by approximately 55% with watering the unpaved roads twice a day as part of the implementation of APM AIR-1. No other quantifiable potential emissions reductions are expected to be achieved with the implementation of APM AIR-1.

Construction and operation emissions of LEU portion of the project were modeled using CalEEMod (Version 2020.4.0). Emission data for the construction and operation of the LEU portion in this study obtained from LEU as provided in Appendix B1b (City of Lodi 2022). The entire LEU portion of the project is labeled as "Lodi Substation" in the CalEEMod emission summary. This emission summary label does not refer to any project activity of PG&E at PG&E Lodi Substation.

Total construction and operation emissions from the PG&E and LEU portions were compared to the SJVAPCD CEQA emission thresholds to evaluate whether the project would cause significant impacts.

Screening Health Risk Assessment

A screening health risk assessment (HRA) of the project was performed with methodologies consistent with the Office of Environmental Health Hazard Assessment (OEHHA) guidance (OEHHA 2015). The HRA was performed for construction activities at locations lasting longer than 2 months in duration and in populated areas with sensitive receptors (OEHHA 2015). The HRA evaluated the health risks from TACs emissions from onsite diesel equipment, and the diesel particulate matter (DPM) emissions were used as a surrogate for the TACs emissions in the HRA. Currently, there are no approved acute risk values for DPM. Therefore, the HRA analyzed cancer and chronic health risks from DPM emissions. DPM was assumed to be best represented by PM_{10} emitted as a result of fuel combustion. Details on the methodology and calculations are included in the HRA technical memorandum provided in Appendix B2.

5.3.4.2 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project-related impacts on air quality were evaluated for each of the criteria listed in Table 5.3-4, as discussed in Section 5.3.4.3.

CEQA Guidelines state that the significance criteria established by the air quality management or air pollution control district may be relied on to make impact determinations. The GAMAQI (SJVAPCD, 2015a) provides recommended air quality emission thresholds for CO, NO_x, ROG, SO_2, $PM_{10,}$ and $PM_{2.5}$ for evaluating the significance of project emissions. If the emissions are below the significance thresholds, impacts would be considered less than significant. If the construction- or operations-phase emissions are greater than the significance thresholds, impacts during that phase would be considered significant.

At this time, it is not scientifically possible to connect a pollutant's general health effects to the health impacts that would result from a project's criteria pollutant emissions. Accurate prediction and analysis of the specific health consequences associated with criteria pollutants from an individual project are not feasible. Unlike the predictive health risk assessments currently conducted using statewide guidance to evaluate human exposures to project-related TAC emissions, no proven approaches or guidance are available for this type of project-specific health study for criteria pollutant emissions.

In this project analysis, the comparison of estimated emissions to SJVAPCD's numerical thresholds for criteria pollutants is used as a surrogate for evaluation of potential health impacts. As described previously, the NAAQS and CAAQS are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health. SJVAPCD's air quality thresholds of significance for project-level CEQA evaluation are used to evaluate the extent to which a project's emissions of criteria air pollutants and precursors would contribute to regional degradation of ambient air quality. SJVAPCD has determined that projects that emit criteria air pollutants and ozone precursors at levels below the

thresholds would not impede the air basin's capacity to attain the NAAQS and CAAQS under the emissions inventory found in the applicable SIPs and air quality plans. As a result, the SJVAPCD thresholds are tied to achieving or maintaining attainment designations with the health-protective NAAQS and CAAQS.

Table 5.3-5 presents the SJVAPCD air quality significance thresholds applicable to the project (SJVAPCD 2015c):

Table 5.3-5. SJVAPCD Air Quality Thresholds of Significance – Criteria Pollutants

Alternative	Emissions (tons per year)					
	CO	NO_x	ROG	SO_2	PM_{10}	$PM_{2.5}$
Construction Emission Thresholds	100	10	10	27	15	15
Operation Emissions (Permitted Equipment and Activities)	100	10	10	27	15	15
Operation Emissions (Non-Permitted Equipment and Activities)	100	10	10	27	15	15

Source: SJVAPCD, 2015c

In addition, SJVAPCD recommends that an ambient air quality analysis be performed when the increase in onsite emissions from construction activities exceeds 100 pounds per day screening level of any criteria pollutant after implementing all enforceable mitigation measures (SJVAPCD, 2015a).

5.3.4.3 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs:

Construction

APM AIR-1: PG&E Dust Control During Construction

PG&E will implement measures to control fugitive dust in compliance with SJVAPCD standards. Dust control measures will include the following at a minimum:

- All exposed surfaces with the potential of dust-generating will be watered or covered with coarse rock to reduce the potential for airborne dust from leaving the site.
- The simultaneous occurrence of more than two ground disturbing construction phases on the same area at any one time will be limited. Activities will be phased to reduce the amount of disturbed surfaces at any one time.
- Cover all haul trucks entering/leaving the site and trim their loads as necessary.
- Use wet power vacuum street sweepers to sweep all paved access road, parking areas, staging areas, and public roads adjacent to project sites on a daily basis (at minimum) during construction. The use of dry power sweeping is prohibited.
- All trucks and equipment, including their tires, will be washed off prior to leaving project sites.
- Apply gravel or non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at project sites.
- Water and/or cover soil stockpiles daily.
- Vegetative ground cover will be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- All vehicle speeds will be limited to 15 mph or less on unpaved areas.
- Implement dust monitoring in compliance with the standards of the local air district.

- Halt construction during any periods when wind speeds are in excess of 50 mph.

BMP AIR-1: LEU Dust Control During Construction

LEU will implement measures to control fugitive dust in compliance with SJVAPCD standards. Dust control measures will include the following at a minimum:

- All exposed surfaces with the potential of dust-generating will be watered or covered with coarse rock to reduce the potential for airborne dust from leaving the site.
- The simultaneous occurrence of more than two ground disturbing construction phases on the same area at any one time will be limited. Activities will be phased to reduce the amount of disturbed surfaces at any one time.
- Cover all haul trucks entering/leaving the site and trim their loads as necessary.
- Use wet power vacuum street sweepers to sweep all paved access road, parking areas, staging areas, and public roads adjacent to project sites on a daily basis (at minimum) during construction. The use of dry power sweeping is prohibited.
- All trucks and equipment, including their tires, will be washed off prior to leaving project sites.
- Apply gravel or non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at project sites.
- Water and/or cover soil stockpiles daily.
- Vegetative ground cover will be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- All vehicle speeds will be limited to 15 mph or less on unpaved areas.
- Implement dust monitoring in compliance with the standards of the local air district.
- Halt construction during any periods when wind speeds are in excess of 50 mph.

Operation and Maintenance

PG&E and LEU will employ standard best practices —such as minimizing vehicle trips through proper planning of the O&M activities and keeping vehicles and equipment well maintained—during operation of the project.

5.3.4.4 Potential Impacts

Project impacts on air quality were evaluated against the CEQA significance criteria, as discussed in the following sections. This section evaluates potential project impacts from both the construction phase and operation and maintenance phase.

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution

line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Conflict with or obstruct implementation of the applicable air quality plan? *Less-than-Significant Impact.*

Air quality plans provide an overview of the region's air quality and identify the pollution-control measures needed to expeditiously attain and maintain air quality standards. The air quality plans applicable to the area are listed in Section 5.3.2.3, and the applicable SJVAPCD air quality rules are discussed in Section 5.3.1.3. These air quality plans propose emission-reduction measures that are designed to bring the region into attainment of the CAAQS and NAAQS. Federal, state, and regional air quality regulations and rules were developed by incorporating the requirements from the air quality plans to ensure the implementation of these plans. Construction and operation of the project would comply with applicable federal, state, and local regulations described in Section 5.3.1, as further discussed in this section. Because the regional air regulations and rules are developed to ensure the implementation of the regional air quality plans, compliance with these regulations indicates that the Project's activities would not obstruct implementation of the air quality plans of the region.

In addition to the air quality regulations and rules, SJVAPCD adopted emission thresholds for CEQA evaluation to ensure that the project emissions would not conflict or hinder the implementation of the air quality plans. Therefore, consistency with the air quality plans and standards is also analyzed by evaluating whether the Project's emissions would exceed the SJVAPCD CEQA significance thresholds.

Annual Construction Emissions

PG&E Potential Impact Discussion

Construction activities would cause temporary air pollutant emissions. The project construction activities would occur at multiple PG&E sites from 2026 to 2029 and include the following activities:

- PG&E 230 kV Transmission Line
- PG&E Lockeford Substation expansion
- PG&E Thurman Switching Station construction with communication and secondary station service components
- PG&E remote-end substations and PG&E Clayton Hill Repeater Station modification
- PG&E 60 kV power lines reconfiguration

A summary of the annual construction emissions from PG&E portion of the construction are provided in Table 5.3-6. The emissions include those from the onsite offroad construction equipment, offsite onroad vehicles such as worker commute and haul trucks, and fugitive dust emissions associated with earthmoving activities and re-entrained road dust from pave and unpaved roads. Worst-case construction emissions would occur in 2027 when construction activities occur simultaneously at multiple sites. Anticipated construction schedule, equipment usage data, and emission calculation of each activity are in Appendix B1a.

Table 5.3-6. Construction Emissions from PG&E Construction Sites

PG&E Site	Total Annual Emissions (tons per year)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2026	0.19	1.95	2.51	0.01	3.72	0.46
Construction Year 2027	0.93	5.79	4.74	0.06	4.57	0.58
Construction Year 2028	0.11	1.37	1.00	0.00	0.63	0.08
Construction Year 2029	0.03	0.43	0.31	0.00	0.17	0.02

As shown, project construction emissions for the PG&E portion of the project would be lower than the SJVAPCD CEQA thresholds for all pollutants analyzed. In addition, implementation of the APM AIR-1 during project construction would further reduce or minimize the construction emissions from the project. Potential fugitive dust control emissions would be reduced by approximately 55% with watering the unpaved roads twice a day as part of the implementation of APM AIR-1. Therefore, the PG&E portion of the project would not conflict or obstruct implementation of the applicable air quality plan, thus would have less-than-significant impacts during construction.

LEU Potential Impact Discussion

Construction emissions for LEU portion of the project are in Appendix B1b and summarized in Table 5.3-7.

Table 5.3-7. Construction Emissions from LEU Construction Sites

LEU Site	Total Emissions with Multiple Projects (tons per year)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2027	0.20	1.37	1.45	0.01	1.30	0.26
Construction Year 2028	0.01	0.10	0.12	0.00	0.00	0.00

Source: City of Lodi 2022.

As shown, project construction emissions for the LEU portion of the project would be lower than the SJVAPCD CEQA thresholds for all pollutants analyzed. In addition, implementation of BMP AIR-1 during project construction would further reduce or minimize the construction emissions from the project and provide compliance with the City of Lodi air quality regulation. Therefore, the LEU portion of the project would not conflict or obstruct implementation of the applicable air quality plan, thus would have less-than-significant impacts during construction.

Total Project Potential Impact Discussion

Total project construction emissions from the PG&E project portions and LEU project portions are summarized in Table 5.3-8 and compared to the SJVAPCD CEQA thresholds for construction.

Table 5.3-8. Total Project Construction Emissions

Total Project	Total Construction Emissions (tons per year)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2026	0.19	1.95	2.51	0.01	3.72	0.46
Construction Year 2027	1.12	7.16	6.10	0.06	5.87	0.84
Construction Year 2028	0.12	1.46	1.12	0.00	0.64	0.09
Construction Year 2029	0.03	0.43	0.31	0.00	0.17	0.02
SJVAPCD Annual Construction Emission Thresholds	10	100	10	27	15	15
Exceed Threshold?	No	No	No	No	No	No

As shown, total project construction emissions would be lower than the SJVAPCD CEQA thresholds for all pollutants analyzed. In addition, implementation of APM AIR-1 and BMP AIR-1 during project construction would further reduce or minimize the construction emissions from the project. Therefore, the project would not conflict or obstruct implementation of the applicable air quality plan, and would have less-than-significant impacts during construction.

Construction emissions from the project is estimated to exceed 2 tons per year in 2026 and 2027 for NOx and PM_{10}. Therefore, construction of the project will be subject to SJVAPCD Rule 9510 ISR requirements. The project will comply with Rule 9510 requirements to reduce the NO_x and PM_{10} construction emissions by 20 percent and 45 percent, respectively, as required by Rule 9510. Emissions would be reduced through either onsite emission reduction, offsite emission offset, or a combination of the two.

Daily Onsite Construction Emissions and Localized Impacts

Emissions occurring at or near the project area have the potential to create a localized impact also referred to as an air pollutant hotspot. Localized emissions are considered significant if, when combined with background emissions, they would result in exceedance of an air quality standard. The SJVAPCD has provided guidance for screening localized impacts in the *Guidance for Assessing and Mitigating Air Quality Impacts* that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds this screening threshold, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it will not cause a violation of an ambient air quality standard.

PG&E Potential Impact Discussion

Maximum daily onsite construction emissions from each PG&E site were estimated based on the construction schedules and the anticipated overlapping construction activities that would potentially occur on a same day. Onsite emissions include only those from the offroad construction equipment and water trucks that would be operating at a construction site. Emissions from worker commute, pickup trucks, and haul trucks are not included in the onsite emissions. The worst-case daily emissions from all PG&E construction sites were summarized in in Table 5.3-9. As shown in the table, worst-case daily emissions of the criteria pollutants from the PG&E construction sites would be below the 100 lbs/day screening level.

Table 5.3-9. Onsite Daily Construction Emissions from PG&E Construction Sites

PG&E Site	Onsite Daily Emissions (lbs/day)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2026	6.95	65.35	62.19	0.14	3.04	2.35
Construction Year 2027	25.62	86.47	55.56	1.59	3.37	2.06
Construction Year 2028	1.55	19.76	13.57	0.04	1.03	0.53
Construction Year 2029	1.55	19.76	13.57	0.04	0.57	0.53
SJVAPCD Air Quality Screening Thresholds	100	100	100	100	100	100

Localized PG&E construction impacts will be short-term in nature lasting only during the duration of construction. The onsite construction emissions will be less than 100 lbs/day for each of the criteria pollutants from the PG&E construction sites. Therefore, further analysis of localized air quality impacts using air dispersion modeling is not needed. Air quality impacts associated with PG&E's portion of the project will be less than significant.

LEU Potential Impact Discussion

Maximum daily emissions from the LEU construction site were obtained from the LEU (refer to Appendix B1b) and are summarized in Table 5.3-10.

Table 5.3-10. Onsite Daily Construction Emissions from LEU Construction Site

LEU Site	Onsite Daily Emissions (lbs/day)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2027	6.01	41.53	44.35	0.15	9.92	6.06
Construction Year 2028	1.96	12.10	16.21	0.04	0.62	0.57
SJVAPCD Air Quality Screening Thresholds	100	100	100	100	100	100

Source: City of Lodi 2022.

Localized LEU construction impacts will be short-term in nature lasting only during the duration of construction. The onsite construction emissions will be less than 100 pounds per day (lbs/day) for each of the criteria pollutants from the LEU construction sites. Additionally, LEU's portion of the project would comply with the City of Lodi and San Joaquin County regulations. Therefore, further analysis of localized air quality impacts using air dispersion modeling is not needed. Air quality impacts associated with LEU's portion of the project will be less than significant.

Total Project Potential Impact Discussion

The PG&E's Thurman Switching Station construction site and the LEU's Guild Substation construction site are adjacent sites in the City of Lodi. In addition, construction activities of PG&E's Thurman Switching Station microwave tower and part of the construction activities of the PG&E12 kV service line extension also would occur at PG&E Thurman Switching station. Therefore, onsite emissions from PG&E Thurman Switching Station and LEU Guild Substation, microwave tower at Thurman Switching Station, 12 kV service line, and the LEU Guild Substation constructions were combined and compared with the SJVAPCD screening emission levels. The combined emissions are shown in Table 5.3-11. The combined daily emissions from these two sites would be below the 100 lbs/day screening level.

Table 5.3-11. Onsite Daily Construction Emissions from Combined PG&E Thurman Switching Station and LEU Guild Substation Sites

	Onsite Emissions (lbs/day)					
	ROG	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$
Construction Year 2026	2.87	28.26	26.16	0.05	1.11	1.04
Construction Year 2027	6.89	67.93	54.12	0.17	9.92	6.06
Construction Year 2028	1.96	12.10	16.21	0.04	0.62	0.57
Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
SJVAPCD Air Quality Screening Thresholds	100	100	100	100	100	100

Localized construction impacts will be short-term in nature lasting only during the duration of construction. The onsite construction emissions will be less than 100 lbs/day for each of the criteria pollutants from the PG&E construction sites and the LEU construction site. Therefore, further analysis of localized air quality impacts using air dispersion modeling is not needed. Air quality impacts will be less than significant.

Operation and Maintenance

PG&E Potential Impact Discussion

O&M activities at PG&E sites are infrequent, typically occur once or twice a month, and involve the use of offsite construction equipment, onroad vehicles, and helicopters. PG&E O&M activities may include work at:

- PG&E 230 kV Transmission Lines (72 structures)

- PG&E Thurman Switching Station PG&E modified Lockeford Substation

Emissions from O&M activities were quantified using methodologies described in Section 5.3.4.1. A summary of the emissions is provided in Table 5.3-12. Details of the emission calculations are in Appendix B1a.

Emissions from PG&E's performance of O&M activities on its portion of the project would be lower than the SJVAPCD significance thresholds. Operation of the project would comply with applicable federal, state, and local rules and regulations discussed in Section 5.3.1. Therefore, the project would not conflict with or obstruct implementation of the applicable air quality plan, and there would be a less-than-significant impact for PG&E's portion of the project.

LEU Potential Impact Discussion

LEU O&M emissions would be from equipment and vehicles used for routine equipment testing, monitoring, and repair. Emissions are anticipated to be minimal as evaluated in the CalEEMod emission summary provided in Appendix B1b (City of Lodi 2022) and summarized in Table 5.3-12.

Emissions from LEU's performance of O&M activities on its portion of the project would be lower than the SJVAPCD significance thresholds. Operation of the project would and comply with applicable federal, state, and local rules and regulations discussed in Section 5.3.1. Therefore, the project would not conflict with or obstruct implementation of the applicable air quality plan, and there would be a less-than-significant impact for LEU's portion of the project.

Total Project Potential Impact Discussion

Total emissions from O&M activities at PG&E and LEU sites, as shown in Table 5.3-12, would be below the SJVAPCD CEQA thresholds for project operation.

Table 5.3-12. Total Project Operation and Maintenance Activities Emissions

	Annual Emissions (ton/year)					
Sites	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
PG&E Sites	0.017	0.035	0.020	0.001	0.005	0.002
LEU Sites	0.530	0.110	0.130	0.001	0.009	0.009
Total	0.547	0.145	0.153	0.002	0.014	0.011
SJVAPCD CEQA Thresholds	10	100	10	27	15	15

In summary, the project would have construction and operation emissions lower than the SJVAPCD air emissions significance thresholds. Construction and operation of the project would implement measures and comply with applicable federal, state, and local rules and regulations. Therefore, the project would not conflict with or obstruct implementation of the applicable air quality plan, and there would be a less-than-significant impact.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Under federal standards, SJVAB has been designated by the EPA as nonattainment for O_3 and $PM_{2.5}$ under NAAQS. Under state standards, SJVAB has been designated as nonattainment for O_3, PM_{10}, and $PM_{2.5}$. As shown in Tables 5.3.6 and 5.3-12, the project construction and operation emissions of the nonattainment pollutants of PM_{10}, $PM_{2.5}$, and O_3 precursors, VOCs and NOx, would not exceed the SJVAPCD CEQA emission thresholds.

The SJVAPCD (2015) has determined that any project that would individually have a significant air quality impact would also be considered to have a significant cumulative air quality impact. As shown in Table 5.3-9, construction of the PG&E portion of the project will lead to a temporary increase in criteria air pollutants; however, these short-term construction emissions will not exceed the applicable significance thresholds for any criteria pollutant for which the region is non-attainment. To reduce fugitive dust emissions, PG&E will implement APM AIR-1, which includes applying water to exposed areas, as needed, and reducing vehicle speeds on unpaved areas. Potential fugitive dust control emissions would be reduced by approximately 55% with watering the unpaved roads twice a day as part of the implementation of APM AIR-1. Even before implementation of APM AIR-1, all criteria air pollutant emissions will be below the applicable SJVAPCD thresholds. Operation emissions of the PG&E portion of the project would be minimal as shown in Table 5.3-12. Therefore, the PG&E portion of the project would not result in a cumulatively considerable net increase of any pollutants for which the region is in nonattainment under NAAQS and CAAQS, and there would be a less-than-significant impact.

LEU Potential Impact Discussion

Under federal standards, SJVAB has been designated by the EPA as nonattainment for O_3 and $PM_{2.5}$ under NAAQS. Under state standards, SJVAB has been designated as nonattainment for O_3, PM_{10}, and $PM_{2.5}$. As shown in Table 5.3.7 and Table 5.3-12, the project construction and operation emissions of the nonattainment pollutants of PM_{10}, $PM_{2.5}$, and ozone precursors, VOCs and NOx, would not exceed the SJVAPCD CEQA emission thresholds.

The SJVAPCD (2015) has determined that any project that would individually have a significant air quality impact would also be considered to have a significant cumulative air quality impact. As shown in Table 5.3-10, construction of the LEU portion of the project will lead to a temporary increase in criteria air pollutants; however, these short-term construction emissions will not exceed the applicable significance thresholds for any criteria pollutant for which the region is non-attainment. To reduce fugitive dust emissions and be compliant with the City of Lodi air quality regulation, LEU will implement BMP AIR-1, which includes applying water to exposed areas, as needed, and reducing vehicle speeds on unpaved areas. Even before implementation of BMP AIR-1, all criteria air pollutant emissions will be below the applicable SJVAPCD thresholds. Operation emissions of the LEU portion of the project would be minimal as shown in Table 5.3-12. Therefore, the LEU portion of the project would not result in a cumulatively considerable net increase of any pollutants for which the region is in nonattainment under NAAQS and CAAQS, and there would be a less-than-significant impact.

Project Potential Impact Discussion

The project would not result in a cumulatively considerable net increase of any pollutants for which the region is in nonattainment under NAAQS and CAAQS, and there would be a less-than-significant impact.

c) Expose sensitive receptors to substantial pollutant concentrations? *Less-than-Significant Impact.*

Potential Pollutant Concentrations

The project will not expose sensitive receptors to substantial pollutant concentrations. Construction activities will involve the operation of heavy equipment and activities that will temporarily produce additional dust and air emissions.

PG&E Potential Impact Discussion

Construction will be spread across the approximately 10.6-mile transmission line alignment and adjacent stations. Most of the project area is within rural agricultural areas and open spaces with few sensitive receptors. As described in Section 5.13, Noise, approximately a total of 92 residential properties are located within 1,000 feet of the project area (refer to Figure 5.3-1). These sensitive receptors could be affected by construction-generated air emissions depending on location, distance, and duration of construction activities; however, exposure will be periodic and temporary.

Residences located near the helicopter landing zones and laydown yards may experience increased dust during helicopter take-off and landing activities. However, helicopter activities will be limited (where access or local terrain conditions prohibit the work from being conducted by ground-based crews and equipment, or during conductor installation and removal activities), and will occur for about 50 days for the 230 kV transmission line construction during the 2026 to 2029 construction period. In addition, the implementation of APM AIR-1 will control fugitive dust in the area through watering or use of a soil stabilizer.

In addition, as shown in Tables 5.3-10 and 5.3-11, criteria pollutants from the PG&E construction sites and the combined PG&E Thurman Switching Station and LEU's Guild Substation would be below the 100 lbs/day screening level, indicating that the project is unlikely to cause violations to the ambient air quality standards that were developed to protect public health. Therefore, the PG&E portion of the project would not expose sensitive receptors to substantial criteria pollutants concentrations.

LEU Potential Impact Discussion

There are no schools, hospitals, daycare centers within 1,000 feet from the LEU portion of the project (refer to Figure 5.3-1 and Figure 5.13-1). One residence is located approximately 760 feet from the eastern most LEU construction work area. Implementation of BMP AIR-1 will control fugitive dust associated with the HDD excavation through watering. As shown in Table 5.3-11, criteria pollutants from the combined PG&E Thurman Switching Station and LEU Guild Substation would be below the 100 lbs/day screening level, indicating that the project is unlikely to cause violations to the ambient air quality standards that were developed to protect public health. Because construction emissions from the Project will be short term and will not exceed SJVAPCD construction thresholds, no sensitive receptors will be exposed to substantial pollutant concentrations. Operation of the Project will be unmanned with periodic site visits for maintenance. Minimal emissions from operation and maintenance will not expose sensitive receptors to substantial pollutant concentrations. Therefore, the LEU portion of the project would not expose sensitive receptors to substantial criteria pollutants concentrations.

Valley Fever

PG&E Potential Impact Discussion

Construction activities have the potential to generate fugitive dust that may suspend Coccidioides spores and expose sensitive receptors. The project is not expected to result in significant Valley Fever-related impacts because construction will occur mostly in areas where soils have been regularly disturbed by agricultural activities and urban development. Further, employers in California are required to provide their workers National Institute for Occupational Safety and Health (NIOSH)-approved respiratory protection with particulate filters rated as N95, N99, N100, P100, or high-efficiency particulate air (HEPA) (Cal/OSHA 2017). Fugitive dust control measures implemented by APM AIR-1, such as wetting the soil, will reduce fugitive dust minimizing exposure of Coccidioides spores to workers and receptors. Therefore, impacts related to Valley Fever exposure on PG&E's portion of the project will be less than significant.

LEU Potential Impact Discussion

Construction activities have the potential to generate fugitive dust that may suspend Coccidioides spores and expose sensitive receptors. The project is not expected to result in significant Valley Fever-related impacts because construction will occur mostly in areas where soils have been regularly disturbed by agricultural activities and urban development. Further, employers in California are required to provide their workers NIOSH-approved respiratory protection with particulate filters rated as N95, N99, N100, P100, or HEPA (Cal/OSHA 2017). Fugitive dust control measures implemented by BMP AIR-1, such as wetting the soil, will reduce fugitive dust minimizing exposure of Coccidioides spores to workers and receptors. Therefore, impacts related to Valley Fever exposure on LEU's portion of the project will be less than significant.

CO Hot Spots

CO concentrations tend to be higher at congested intersections because of the accumulation of CO emissions during vehicle idling. The project would not cause additional vehicle traffic during its operation to worsen traffic conditions at intersections in the project area. Therefore, the project is not expected to have CO hot spot impacts that cause violations to CO NAAQS or CAAQS.

Toxic Air Contaminants

Toxic air contaminants from project construction will generally be associated with DPM from diesel-fueled engines. Toxic air contaminants can result in health risks associated with exposure to DPMs from diesel vehicles and generators (CARB 1998). Although construction will involve the use of diesel-fueled vehicles, the PG&E and LEU construction phases will occur over a limited duration and will be spread over the 10.6-mile transmission line alignment and adjacent stations and project areas in the City of Lodi.

An HRA of the project was performed using methodologies consistent with the OEHHA guidance (OEHHA 2015). The HRA was performed for construction activities at locations lasting longer than 2 months in duration (OEHHA 2015). Two locations were selected for the HRA where sensitive receptors are proximate to construction activities occurring at the location for more than 2 consecutive months: (1) PG&E's Lockeford Substation, and (2) the parcel at East Thurman Road and South Guild Avenue in Lodi, which includes PG&E Thurman Switching Station and LEU Industrial and Guild substations.

The HRA evaluated the health risks from onsite diesel equipment emissions and particulate matter (DPM) emissions were used as the surrogate for the toxic air contaminant emitted during construction. Offsite emissions resulting from material haul truck trips, worker commute trips, short haul dump truck trips, long haul dump truck trips, inspector vehicle trips, and mechanics truck trips were not included in the HRA, as they are not expected to significantly contribute to localized health impacts from the two construction locations being evaluated.

The results of the screening HRA for construction activities associated with the two locations described previously are shown in Table 5.3-13. The excess cancer risks are less than the significance threshold of 20 in 1 million. The chronic hazard indices are less than the significance threshold of 1.0. The MEIR for both the cancer risk and chronic hazard index for PG&E Thurman Switching Station and LEU Guild Substation is located approximately 1,145 feet west of the northwest corner fence line of PG&E Thurman Switching station project site. The MEIR for both the cancer risk and chronic hazard index for PG&E Lockeford Substation is located approximately 100 feet south of PG&E Lockeford Substation project area. Therefore, predicted impacts associated with these construction activities are less than significant. Detailed HRA methodologies and descriptions of the results are in Appendix B2.

Table 5.3-13. Health Risk Assessment Results

Construction Location	Risk	MEIR	MEIW	Maximum Exposed Sensitive Receptor
PG&E Thurman Switching Station	Cancer Risk (in a million) Significance Threshold = 20 in 1 million	1.23	0.18	0.40
	Chronic Hazard Index Significance Threshold = 1.0	0.0018	0.0144	0.0006
LEU Guild Substation	Cancer Risk (in a million) Significance Threshold = 20 in 1 million	1.23	0.13	0.37
	Chronic Hazard Index Significance Threshold = 1.0	0.0018	0.0102	0.0005
PG&E Thurman Switching Station &	Cancer Risk (in a million) Significance Threshold = 20 in 1 million	2.46	0.28	0.77

Construction Location	Risk	MEIR	MEIW	Maximum Exposed Sensitive Receptor
LEU Guild Substation Combined	Chronic Hazard Index Significance Threshold = 1.0	0.035	0.0227	0.0011
PG&E Lockeford Substation	Cancer Risk (in a million) Significance Threshold = 20 in 1 million	7.43	0.19	0.07
	Chronic Hazard Index Significance Threshold = 1.0	0.0047	0.0053	0.00005

MEIR = Maximally Exposed Individual Resident

MEIW = Maximally Exposed Individual Worker

Maximum Exposed Sensitive Receptor is a preschool, K-12 school, or medical facility.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

PG&E construction of its portion of the project will not result in other emissions including those leading to odors that will adversely affect a substantial number of people. Typical odor nuisances include hydrogen sulfide, ammonia, chlorine, and other sulfide-related emissions. However, no significant sources of these pollutants will be used during construction. Construction of the project will require use of diesel-based equipment that will result in emissions of diesel fumes. Diesel odors from construction may be perceived as objectionable in lower concentrations than required to cause a health risk. However, any odors from construction will be periodic and temporary in nature. Therefore, impacts related to odors and other emissions during construction will be less than significant for PG&E's portion of the project.

LEU Potential Impact Discussion

LEU construction of its portion of the project will not result in other emissions including those leading to odors that will adversely affect a substantial number of people. Typical odor nuisances include hydrogen sulfide, ammonia, chlorine, and other sulfide-related emissions. However, no significant sources of these pollutants will be used during construction. Construction of the project will require use of diesel-based equipment that will result in emissions of diesel fumes. Diesel odors from construction may be perceived as objectionable in lower concentrations than required to cause a health risk. However, any odors from construction will be periodic and temporary in nature. LEU will be compliant with the City of Lodi air quality regulation. Therefore, impacts related to odors and other emissions during construction will be less than significant for LEU's portion of the project.

5.4 Biological Resources

This section describes biological resources (vegetation, wildlife, and aquatic resources) in the biological study area (BSA), identifies potential impacts on sensitive habitats and species that could result from the implementation of the project, and concludes that impacts on biological resources will be less than significant.

Incorporation of the measures described in Section 5.4.4.2 will further minimize potential less-than-significant project impacts to biological resources. The project's potential effects on biological resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.4-4 and are discussed in more detail in Section 5.4.4. Figure 5.4-1 identifies project components and the BSA for the project.

5.4.1 Methodology and Environmental Setting

5.4.1.1 Methodology

This section summarizes the methods used to identify biological resources, including waters, wetlands, and special-status plants and wildlife species, and analyze potential impacts.

The project footprint is defined as the area that may be directly affected by the proposed project, including temporary and permanent impacts, and represents the maximum extent of ground-disturbing activities at potential work areas (including new proposed structure locations, staging areas, and new proposed substations). The BSA covers approximately 387 acres and includes a 250-foot-wide buffer around the proposed project facilities and potential work areas, and a 50-foot-wide buffer around proposed access roads to the work areas. Based on CPUC guidelines, the BSA should include a 1,000-foot-wide buffer around project facilities. Following a desktop review of aerial imagery up to 1,000 feet from project facilities, this BSA was reduced in size during focused field surveys because there is minimal natural or undisturbed land cover types within 1,000 feet; there are limited ground-disturbing activities in defined work areas; the surrounding landscape generally is flat, which limits potential for erosion, sedimentation, and other indirect effects; the project footprint will be restored to pre-existing conditions; the majority of upland habitat observed throughout the BSA is either hardscaped (pavement and sidewalks) or otherwise developed/landscaped, agriculture, or disturbed habitat; and there is constrained access because of surrounding private property along the project's ROW. Each participating utility's portion of the project is identified where sensitive biological resources within the BSA are nearby.

Special-status plants include species meeting one or more of the following criteria:

- Listed, proposed for listing, or candidate for listing as threatened or endangered under the federal Endangered Species Act (ESA; 50 CFR 17.11 for wildlife; 50 CFR 17.12 for plants; 67 Federal Register [FR] 40658 for candidate species, and various notices in the Federal Register for proposed species).
- Listed under the California Endangered Species Act (CESA) as threatened or endangered, or proposed or candidates for listing.
- Designated as rare under the Native Plant Protection Act.
- Species that otherwise meet the definition of rare, threatened, or endangered species under CEQA Guidelines Section 15380. This includes species listed by the California Native Plant Society (CNPS) in the online version of its Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022) as List 1A, 1B, 2A, 2B, 3, or 4.

Special-status wildlife includes species that meet one or more of the following criteria:

- Listed, proposed for listing, or candidate for listing as threatened or endangered under ESA
- Listed or candidate for listing as threatened or endangered under CESA
- Designated as a Species of Special Concern (SSC) or a Fully Protected (FP) species by the California Department of Fish and Wildlife (CDFW)
- Designated as Birds of Conservation Concern (BCC) by the U.S. Fish and Wildlife Service (USFWS)
- Species that otherwise meet the definition of rare, threatened, or endangered species under CEQA Guidelines Section 15380

Bird species protected under the federal Bald and Golden Eagle Protection Act (BGEPA) and bat species considered by the Western Bat Working Group to be "high" or "medium" priority (Western Bat Working Group 2017) also are considered and are deemed special status where they meet criteria as listed previously.

Natural communities are considered to be special status if they are identified on the CDFW List of Vegetation Alliances and Associations as being highly imperiled, also classified by CDFW as ranks S1 to S3 in the California Natural Diversity Database (CNDDB; CDFW 2023) and natural communities of special concern.

Database and Literature Review

The following biological databases were queried for records of special-status plants, natural communities, and wildlife that might have potential to occur in the project footprint:

- USFWS Information for Planning and Consultation (IPaC) list of federally listed and proposed endangered, threatened, and candidate species and their designated critical habitat (USFWS 2023a, 2023b)
- National Marine Fisheries Service (NMFS) list of federally listed and proposed endangered, threatened, and candidate species and their designated critical habitat (NMFS 2023)
- CNPS online Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2023)
- CNDDB (CDFW 2023)

A CNDDB and CNPS search for special-status species typically includes nine U.S. Geological Survey (USGS) 7.5-minute quadrangle maps for a project located within a single quadrangle—the quadrangle that covers the project footprint, and the eight quadrangles that surround the project quadrangle. However, in this case, the project footprint spanned four quadrangles; therefore, the CNDDB and CNPS species lists were generated for additional quadrangles to account for all the areas surrounding the four project quadrangles, including Linden, Lockeford, Waterloo, Lodi North, Clay, Goose Creek, Clements, Wallace, Valley Springs SW, Farmington, Peters, Stockton East, Stockton West, Lodi South, Galt, Bruceville, Thornton, and Terminous. The CNDDB search was further refined to a 5-mile buffer around the project footprint. The USFWS IPaC species list was generated for the project BSA. The NMFS species list was generated for the Linden, Waterloo, and Lodi North quadrangles.

Other information sources consulted to determine which special-status species could potentially occur in the project footprint included:

- Natural Resources Conservation Service (NRCS) Web Soil Survey, to obtain information about soils in the BSA (NRCS 2022)
- *San Joaquin County Multi-Species Habitat Conservation and Open Space Plan* (SJMSCP), to obtain information about special-status species in the BSA (San Joaquin County 2000)

- *San Joaquin Valley Operation & Maintenance Habitat Conservation Plan* (SJVHCP), to obtain information about covered activities and covered species (PG&E 2006)
- Aerial photographs
- *Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012)

Field Surveys

Biologists surveyed all undeveloped areas in the BSA that might include habitat for sensitive biological resources. The surveys described in the following subsections were conducted for the project.

Reconnaissance Surveys

A general biological reconnaissance survey was conducted on December 11, 2019, by Jacobs biologists, Mia Marek and Kyle Brown. It entailed walking meandering transects in the BSA and surveying areas with potential to support special-status fauna, flora, and other sensitive biological resources as identified in desktop-level reviews. The following tasks were conducted during the reconnaissance-level survey:

- Vegetation communities and habitat types were identified and characterized in the BSA and evaluated for special-status plant suitability.
- Baseline data were collected for special-status wildlife species. Potential habitat for various special status species was observed and recorded. Uplands and aquatic features in the biological resources survey area were evaluated to determine habitat suitability.

A follow-up biological reconnaissance survey was conducted on August 11, 2022, by Jacobs biologists, Mia Marek and Stephanie Owens to assess the BSA where it was expanded to encompass additional proposed work areas associated with refined PG&E new 230 kV structure locations and 60 kV line reconfiguration and extension along the PG&E Lockeford-Industrial, PG&E Lodi-Industrial, PG&E Industrial Tap, and PG&E Lockeford-Lodi No. 2.

Botanical Surveys

Prior to conducting the botanical surveys, a desktop review of special-status species' occurrences in the vicinity of the BSA was conducted. Habitat types were identified in the BSA and evaluated for special-status plant suitability.

Botanical surveys using CDFW and CNPS protocols were conducted by Jacobs biologists Mia Marek, Kyle Brown, and Stephanie Owens and ATS wetland scientist, Russell Huddleston, on April 27 and 28, May 11, June 15, and August 6, 2021, within the BSA. The survey timing was suitable to identify special-status plant species that had potential to occur in the BSA. The surveys consisted of driving the project alignment and walking meandering transects in the BSA where potential habitat for special-status plants was present (excluding developed and residential/commercial landscaped areas). Botanical surveys were conducted in accordance with standard protocols for surveying special-status plants (CDFW 2018; USFWS 2000). The methods used and detailed results of the botanical surveys for the project are presented in the Northern San Joaquin 230 kV Transmission Project Rare Plant Report (Appendix C1).

The August 11, 2022, biological reconnaissance survey focused on potential new PG&E 230 kV structure location refinement and existing PG&E 60 kV lines reconfiguration. The survey was conducted outside of the blooming season for special-status plants with potential to occur within the BSA, but included a rare plant habitat assessment.

Aquatic Resources Delineation

Potentially jurisdictional aquatic resources within the BSA were surveyed and delineated in accordance with the U.S. Army Corps of Engineers (USACE) methods by Mia Marek, Kyle Brown, Stephanie Owens, and

Russell Huddleston on April 27 and 28, 2021, and May 11, 2021. The biological reconnaissance survey on August 11, 2022, included a survey for potentially jurisdictional aquatic resources within the additional work areas. A desktop review of the National Wetlands Inventory, National Hydrography Dataset, and California Aquatic Resource Inventory mapping databases and current and historic aerial imagery (USFWS 2022c; USGS 2021; SFEI 2020) was performed before the surveys occurred. The methods used and detailed results of the aquatic resources delineation for the project are presented in the *Northern San Joaquin 230 kV Transmission Project Aquatic Resources Delineation Report* (Appendix C2).

Likelihood of Presence of Special-Status Species

Using the information generated from literature reviews and field surveys, the list of special-status species with the potential to occur was further refined to reflect the species that may occur within the project footprint. The likelihood of special-status species occurrence was determined based on natural history parameters and the species' range, habitat, foraging needs, migration routes, and reproductive requirements using the following general categories:

- Present—Reconnaissance-level, focused, or protocol-level surveys documented the occurrence or observation of a species in the project footprint.
- Seasonally present—Individuals were observed in the project footprint, but it is only present in the area during certain times of the year.
- Likely to occur (onsite or offsite where the species may be affected by the project from noise, dust, lighting, hydrological modifications, and so on)—The species has a strong likelihood to be found in the project footprint prior to or during construction, but it has not been directly observed to date during project surveys. The likelihood that a species may occur is based on the following considerations: (1) suitable habitat that meets the life history requirements of the species is present on or near the project footprint; (2) migration routes or corridors are near or within the project footprint; (3) records of sighting are documented on or near the project footprint; and (4) there is an absence of invasive predators (for example, bullfrogs). The main assumption is that records of occurrence have been documented within or near the project footprint, the project footprint falls within the range of the species, and suitable habitat is present, but it is undetermined whether the habitat is currently occupied.
- Potential to occur—There is a possibility that the species can be found in the project footprint prior to or during construction, but it has not been directly observed to date. The likelihood that a species may occur is based on the following conditions: (1) suitable habitat that meets the life history requirements of the species is present on or near the project footprint; (2) migration routes or corridors are near or within the project footprint; and (3) there is an absence of invasive predators (for example, bullfrogs). The main assumption is that the project footprint falls within the range of the species, suitable habitat is present, but no records of sighting are located within or near the project footprint and it is undetermined whether the habitat is currently occupied.
- Unlikely to occur—The species is not likely to occur in the project footprint based on the following considerations: (1) lack of suitable habitat and features that are required to satisfy the life history requirements of the species (for example, absence of foraging habitat, lack of reproductive areas, and lack of sheltering areas); (2) presence of barriers to migration/dispersal; (3) presence of predators or invasive species that inhibit survival or occupation (for example, the presence of bullfrogs or invasive fish); (4) lack of hibernacula, hibernation areas, or estivation areas onsite.
- Absent—Suitable habitat does not exist in the project footprint, the species is restricted to or known to be present only within a specific area outside of the project footprint or focused or protocol-level surveys did not detect the species.

Unless otherwise noted, the methodology and environmental information presented in this section are summarized from the *Draft Biological Resources Technical Memorandum for the Northern San Joaquin 230 kV Transmission Project,* which is included as Appendix C3.

5.4.1.2 Environmental Setting

Regional Setting

This project is located within the Great Valley Section of the California Dry Steppe Province. The project is within the Hardpan Terraces and Sodic Claypan Terraces subsections (Miles and Goudey 1997). Geomorphology within the Hardpan Terraces subsection is described as very gently to gently sloping terraces and small areas of floodplain and alluvial fans along streams that cross from mountains to reach the Sacramento and San Joaquin rivers. The Sodic Claypan Terraces are described as nearly level to gently sloping lace Pleistocene and recent alluvial fans from the southern end of the northern California Coast Ranges (Miles and Goudey 1997).

The regional topography generally is flat with rolling hills rising to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project.

Regionally, streams drain to the Sacramento or San Joaquin rivers or to closed basins in the San Joaquin Valley. All but the larger streams are dry during the summer. There are no lakes in the vicinity of the BSA, but temporary ponding in vernal pools on older Pleistocene terraces or on older alluvial fans was historically common (Miles and Goudey 1997). Much of the natural hydrology in the vicinity of the project has been altered by channel realignments, diversions for irrigation, and other water control measures. In addition, the expansion of developed and agricultural land uses and associated grading have greatly altered the distribution and function of seasonal wetlands and swales.

Local Setting

The main project components are located within and to the east of the City of Lodi, California, and south of the Mokelumne River. Associated project work at PG&E remote-end substations will be entirely within existing fenced or paved substation yards and is not included in the BSA. The BSA is primarily hardscaped (pavement and sidewalks) or otherwise developed/landscaped agricultural land, or is previously disturbed, as shown on Figure 5.4-2. Surrounding these work areas are agricultural and rural residential areas. Agricultural land use is primarily wine grapes with some fruit and nut orchards, grain fields, and cattle grazing.

The dominant hydrologic features within the BSA include intermittent Paddy Creek and perennial Bear Creek, as well as constructed irrigation canals and ditches along the proposed PG&E 230 kV transmission line. Surface hydrology within the BSA primarily is influenced by stormwater runoff into drainage channels, some of which then drain to larger linear features. Paddy Creek drains westward to Bear Creek, which continues flowing to the southwest. Bear Creek outlets into Pixley Slough approximately 9 miles southwest of the project BSA, which then drains to the San Joaquin River.

Land Cover, Vegetation, and Wildlife Habitats

As discussed previously, the majority of upland habitat observed throughout the BSA is either hardscaped or otherwise developed/landscaped, agricultural land, or is disturbed habitat consisting of primarily ruderal or non-native species. Representative vegetation alliances from the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009) are referenced and discussed in the following subsections and land cover types within the BSA are shown on Figure 5.4-2. No sensitive vegetation communities or habitats identified in local plans, policies, or regulations, or as designated by CDFW or USFWS, are present within the BSA; however, sensitive vegetation communities and habitats defined by the CPUC, including wetlands and riparian habitat, are present in the BSA as discussed in the following sections. The acreages of land cover types within the BSA are shown in Table 5.4-1.

Table 5.4-1. Land Cover within the BSA

Land Cover	Acres within BSA
Tree Cover	1.97
Other Waters	1.38
Wetlands	0.20
Riparian	0.90
Grassland	59.35
Agriculture	264.53
Ruderal	2.44
Developed/Disturbed	56.28
Total	387.06

Tree Cover

Tree cover is not included in the description sections that follow because this land cover type does not correlate with representative vegetation alliances from the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009). However, this land cover type is included on Figure 5.4-2, pages 3 and 7. Tree cover, where mapped, includes planted, ornamental, or landscaped overstory trees that are not associated with agricultural land cover types.

Wetlands

Eight depressional seasonal wetlands were delineated within the BSA along the proposed PG&E 230 kV transmission line. Vegetation within the wetlands consisted of seaside barley (*Hordeum marinum*), sparse popcornflower (*Plagiobothrys* sp.), annual hairgrass (*Deschampsia danthonioides*), spikerush (*Eleocharis* sp.), and tall flatsedge (*Cyperus eragrostis*). More details on these wetlands can be found in Section 5.4.1.3.

Other Waters

Other waters within the BSA include natural watercourses such as Bear Creek and Paddy Creek, constructed watercourses, and drainage and irrigation ditches. Where emergent vegetation exists, the predominant natural plant communities are *Schoenoplectus* (*acutus*, *californicus*) Herbaceous Alliance (hardstem and California bulrush marshes), *Juncus* (*oxymeris, xiphioides*) Provisional Herbaceous Alliance (irisleaf rush seeps), and *Lolium perenne* Herbaceous Semi-Natural Alliance (perennial rye grass fields). Vegetation within the creeks and along the creek banks is variable, but predominantly includes species such as bulrush (*Schoenoplectus* ssp.), perennial ryegrass (*Festuca perennis* [*Lolium perenne*]), irisleaf rush (*Juncus xiphioides*), and curly dock (*Rumex crispus*). More details on these aquatic features can be found in Section 5.4.1.3.

Riparian

Sparse riparian vegetation occurs along the banks of Bear Creek, Paddy Creek, and a realigned tributary to Paddy Creek, where these features bisect the proposed PG&E 230 kV transmission line. Figure 5.4-2, pages 3 and 4, depict riparian habitat associated with the riverine features within the BSA. In general, the riparian corridors within the BSA are narrow, confined by steep slopes, and sparsely vegetated. Riparian vegetation within the BSA consists mostly of non-native grasses, sparse willows (*Salix* ssp.) along Bear and Paddy Creeks, and a few small, planted oaks (*Quercus agrifolia*) and black walnut trees (*Juglans* sp.) along the realigned tributary to Paddy Creek. These narrow riparian areas provide only very marginal-quality riparian corridors for terrestrial wildlife movement.

Grassland

Annual grasslands occur throughout the BSA, in pastures, along roadsides, and in other undeveloped, disturbed areas. Annual grassland can be classified most readily as annual brome grasslands, within the *Bromus* (*diandrus*, *hordeaceus*)-*Brachypodium distachyon* Herbaceous Semi-Natural Alliance and *Avena* spp.-*Bromus* spp. Herbaceous Semi-Natural Alliance, and *Lolium perenne* (*Festuca perennis*) Herbaceous Semi-Natural Alliance (perennial rye grass fields). Where these alliances occur, rip-gut brome (*Bromus diandrus)*, seaside barley, foxtail barley (*Hordeum murinum*), soft chess (*Bromus hordeaceus*), and perennial ryegrass are dominant or codominant with other non-natives such as black mustard (*Brassica nigra*), fennel (*Foeniculum vulgare*), and bristly ox-tongue (*Helminthotheca echioides*) in the herbaceous layer. Additionally, *Brassica nigra-Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance occurs within annual grasslands in low cover, most commonly near roads and other developed areas.

Agriculture

Agricultural monocultures of almond, cherry, and peach (*Prunus* spp.), as well as walnuts (*Juglans* spp.), vineyards, and corn (*Zea mays*), are dominant in the developed agricultural land throughout the BSA.

Ruderal

Ruderal habitat is common in highly disturbed areas, including along roadways, at the edges of hardscape development, and at other infrastructure areas such as levees and railroads. Ruderal habitat is characterized by a lack of vegetation or is dominated by non-native or invasive plant species such as Italian thistles (*Carduus* spp.), yellow starthistle (*Centaurea solstitialis*), black mustard, foxtail barley, filaree (*Erodium botrys*), perennial pepperweed (*Lepidium latifolium*), and stinkwort (*Dittrichia graveolens*), among others.

Brassica nigra-Centaurea (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance (upland mustards or starthistle fields) also is prevalent around the ruderal margins of the concrete hardscapes along creek banks and levees.

Developed/Disturbed

Developed areas include existing paved roadways and parking lots; railroad areas; residential, commercial, and industrial development; and areas where vegetation is regularly cleared. These areas lack vegetation entirely or have only scattered weedy grasses and forbs. The developed area also includes a portion of the Lodi Memorial Park and Cemetery located northeast of the intersection of East Lodi Avenue and South Guild Avenue that consists of gravestones, mowed grass, and a large stand of trees.

5.4.1.3 Wetlands and Aquatic Resources

Aquatic resources were only observed along the proposed PG&E 230 kV transmission line (Figure 5.4-3 and Appendix C2). No aquatic resources were observed within or adjacent to the LEU portion of the project. The aquatic resource delineation identified eight seasonal wetlands comprising approximately 0.200 acre, approximately 0.247 acre (approximately 359 linear feet) of natural watercourses (one perennial and one intermittent stream), approximately 0.545 acre (approximately 2,775 linear feet) of constructed watercourses, approximately 0.127 acre (approximately 1,805 linear feet) of drainage ditches, and approximately 0.152 acre (approximately 1,654 linear feet) of irrigation ditch within the BSA. The irrigation ditch was observed during the biological reconnaissance survey on August 11, 2022, at which time it was being used to irrigate a corn crop. The irrigation ditch appears to be seasonally graded and filled, along with the adjacent crop fields when not in use. The irrigation ditch was not apparent during the 2021 aquatic resource delineation surveys; however, the faint signature of the ditch is intermittently visible in aerial images going back several years (Google Earth 2022).

Wetlands

Eight depressional seasonal wetlands were delineated within the BSA along the proposed PG&E 230 kV transmission line. These wetlands are shallowly concave basins that may fill with water during wet winter months and are dry for the remainder of the year. These eight seasonal wetlands were dry at the time of the field survey. Their basins were moderately to very degraded or disturbed as a result of adjacent land use, and none represent vernal pool habitat.

Other Aquatic Features

Natural watercourses within the BSA were observed along the proposed PG&E 230 kV transmission line, including Bear Creek and Paddy Creek. Bear Creek was mostly dry during all of the field surveys, with areas of standing water. Paddy Creek was entirely dry. Only small portions of these waterways occur within the BSA, totaling approximately 0.247 acre and approximately 359 linear feet.

Three constructed watercourses were delineated within the BSA along the proposed PG&E 230 kV transmission line, including two realigned tributaries to Paddy Creek and an irrigation canal constructed in uplands. Constructed watercourses delineated within the BSA total approximately 0.545 acre and approximately 2,775 linear feet. The realigned tributaries to Paddy Creek had some standing water during the April and May 2021 surveys.

Seven drainage ditches were observed within the BSA along the proposed PG&E 230 kV transmission line and appear to flow or convey water in direct response to storm events. These features are not associated with existing streams or realigned tributaries. These drainages do not appear to convey a protracted water supply from groundwater, seepage, or other sources. Geomorphic indicators used in the delineation of drainage ditches included break in slope and debris deposits.

One irrigation ditch (ID-1) was observed within the BSA along the proposed PG&E 230 kV transmission line. The irrigation ditch is an earthen feature that appears to be maintained (excavated) annually during the growing season and is not readily apparent the remainder of the year. The irrigation ditch appears to convey flow from constructed watercourse 3 (CW-3) to cornfields (Figure 5.4-3). No indicators of active surface hydrology or of an ordinary high water mark (OHWM) were apparent during the 2021 aquatic resource delineation surveys. A constructed (excavated) OHWM and flowing surface water was apparent during the August 11, 2022, survey, demonstrating the seasonally excavated nature of the ditch. Similarly, the feature is only intermittently visible in historic aerial imagery (Google Earth 2022).

5.4.1.4 Special-Status Species

This section describes special-status species observed (present) during field surveys and any species considered to be likely to occur, have potential to occur, or that are seasonally present in the BSA. Special-status species that are unlikely to be found in the project footprint or otherwise be affected by the project are not discussed in this section and are included in Appendix C4.

The CNDDB, CNPS, NMFS, and USFWS database searches identified 71 special-status species within approximately 15 miles of the project, including 39 special-status plant species and 32 special-status wildlife species (Section 5.4.1.1, Methods; Appendix C5). There is no designated critical habitat within the vicinity of the project.

Special-status Plant Species

In the CNDDB, USFWS, and CNPS records searches, 39 special-status plant species were identified. Only two species—succulent owl's-clover (*Castilleja campestris var. succulenta*) and Sanford's arrowhead (*Sagittaria sanfordii*)—were determined to have potential to occur in and adjacent to the BSA based on the presence of potentially suitable habitat and known occurrences in the vicinity. Potentially suitable habitat for special-status plant species was observed only along the proposed PG&E 230 kV transmission line in association with delineated aquatic resources. These species are presented in Table 5.4-2 and

described in further detail in the following subsections. None of these species or other special-status plant species were observed or detected in the project footprint during the 2021 botanical surveys, and no suitable habitat was observed within the BSA of additional work areas surveyed in August 2022. The remaining species identified from the database queries were determined to be absent because the BSA (and adjacent areas that may be potentially indirectly impacted) lacks suitable habitat, and they were not observed within areas of suitable habitat during appropriately timed botanical surveys within the BSA. These species are included in Appendix C4.

Succulent Owl's-Clover

Succulent owl's-clover (*Castilleja campestris var. succulenta*) is a CNPS List 1B.2 plant that is listed as federally threatened and state endangered in California (CNPS 2023). It blooms from March or April through May and is found primarily in vernal pools along the lower foothills of the eastern San Joaquin Valley. However, it can be found in small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods (CNPS 2023). This species also is found in valley grasslands, foothill grasslands, freshwater wetlands, poorly drained agricultural developments, and wetland-riparian areas.

There is potential for this species to occur within the BSA because there is marginally suitable habitat, including ponded areas in Bear Creek and constructed watercourses and grasslands. There are no CNDDB occurrences within 5 miles of the BSA; however, a reconnaissance survey conducted in early December of 2019 and the aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. Suitable habitat for this species is not present within the project footprint, and it was not observed within areas of suitable habitat within the BSA during appropriately timed botanical surveys.

Sanford's Arrowhead

Sanford's arrowhead (*Sagittaria sanfordii*) is a CNPS List 1B.2 plant that blooms from May through October or November and occurs below elevations of approximately 650 meters (approximately 2,133 feet). It grows in slow-moving or standing freshwater ponds, ditches, wetlands, marshes, swamps, and other assorted willow freshwater resources (CNPS 2023). This species can be found associated with water plantain (*Alisma plantago-aquatica*), water primrose (*Ludwigia peploides*), and various species of cattail (*Typha* spp.).

There is potential for this species to occur within the BSA because there are marginally suitable freshwater resources, including ponded areas in Bear Creek and constructed watercourses, drainage ditches, and seasonal wetlands. There is one CNDDB occurrence within 5 miles of the BSA based on a collection from 1940 that is presumed extant. However, this species was not observed within areas of suitable habitat within the BSA during appropriately timed botanical surveys.

Special-status Wildlife Species

In the records search, 32 special-status wildlife species were identified. However, suitable habitat for only 7 of the 32 species was identified in the BSA. These species are presented in Table 5.4-3 and described further in the following subsections. The remaining species that are identified to be absent or are unlikely to occur are discussed in Appendix C4.

Valley Elderberry Longhorn Beetle

Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*; VELB) is listed as threatened under the ESA. This subspecies of longhorn beetle is strongly associated with its host plant, elderberry (*Sambucus* spp.), where it is nearly always found on or in close proximity to the plant. Elderberry species can be found along creek banks, places of organic waste disposal, farms, homesteads, and aquatic-riparian

resource areas. Exit holes on elderberry branches from larval galleries can be evident on host plants during post-mating periods.

There are five CNDDB occurrences within 5 miles of the BSA and two large elderberry shrubs were found within the BSA along the proposed PG&E 230 kV transmission line during the 2021 botanical surveys. One shrub is located just within the project footprint, next to the proposed guard structure and pull site between PG&E proposed structures W1 and W2. The other shrub is located within the fence line of PG&E Lockeford Substation, surrounded by a small patch of grassland on the eastern side of the substation's general construction yard and outside of the project footprint. Stems ranges from approximately 0.5 to up to approximately 4 inches in diameter. No exit holes were noted on the observed shrubs. No elderberry shrubs were observed adjacent to the LEU portion of the project. The VELB and its various life stages have the potential to occur in the BSA wherever elderberry is found.

Tricolored Blackbird

The tricolored blackbird (*Agelaius tricolor*) is listed as threatened under the CESA and is a CDFW SSC and a USFWS BCC. This species nests in wetlands, in triticale fields, near stock ponds, and in irrigated pastures. Foraging habitats include cultivated fields, feedlots associated with dairy farms, and wetlands. They now nest almost exclusively in triticale fields, especially those with invasive mustard or mallow plants. Females select the nesting site within a male's territory, typically close to freshwater with plenty of concealing vegetation. Females build nests in vegetation from just above ground level up to approximately 8 feet. Tricolored blackbirds typically have a 3- to 4-egg clutch size and 1 to 2 broods each breeding season. They form dense breeding colonies and defend only their nesting patch (Beedy et al. 2017). A significant decline in breeding populations is largely attributed to habitat loss and degradation (Zeiner et al. 1988-1990).

There is suitable nesting habitat in emergent vegetation along Paddy Creek and Bear Creek where these features bisect the BSA, along the proposed PG&E 230 kV transmission line. There is suitable foraging habitat throughout undeveloped grassland or pasture areas within the BSA. There are four CNDDB occurrences of tricolored blackbird within 5 miles of the BSA.

Burrowing Owl

The burrowing owl (*Athene cunicularia*) is a CDFW SSC that is primarily a grassland species, but it is known to persist and occasionally thrive in some landscapes that are altered by human activity (Rosenberg and Haley 2004). Suitable habitat characteristics include burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation (Haug et al. 1993). Nest and roost burrows are most commonly dug by ground squirrels (*Spermophilus beecheyi*; Trulio 1997), but they may use other mammal burrows or built environment structures such as culverts, piles of concrete rubble, and pipes (Ronan 2002). Most California populations are nonmigratory and these habitat types serve for breeding, foraging, and overwintering.

Although there are no CNDDB occurrences of this species within 5 miles of the BSA, there is low potential for this species to occur in the vicinity of the proposed PG&E and LEU project footprints year-round as there are burrows within grassland or pasture areas, along the margins of vineyards, orchards, and other agricultural developments that could potentially provide nesting habitat. Suitable foraging habitat also is present in grassland or pasture areas. No burrowing owl sign (white-wash, pellets) was observed within the BSA during biological surveys. Potential nesting and foraging habitat, where it occurs, is fragmented, highly disturbed, and/or actively cultivated for agricultural use, indicating marginal or low habitat quality.

Table 5.4-2. Special-Status Plant Species with Potential to Occur in the BSA

Scientific Name/ Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
	Federal	State	CNPS			
Castilleja campestris var. succulenta/ succulent owl's-clover	T	E	1B.2	Usually occurs in wetlands, occasionally occurs in non-wetlands. Habitat is vernal pools (often acidic). Occurs in vernal pools with a variety of characteristics, including small and large pools, bowl-shaped pools and swales, willow and deep pools, and pools with short and long inundation periods. Vegetation communities include valley grassland, foothill grassland, freshwater wetlands, wetland-riparian.	(Mar) Apr-May	**Potential to occur**. Although there are no CNDDB occurrences within 5 miles of the BSA, a reconnaissance survey conducted in early December of 2019 and an aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. This species was not found within areas of suitable habitat during the appropriately timed botanical surveys.
Sagittaria sanfordii/ Sanford's arrowhead	—	—	1B.2	Occurs in wetlands, marshes, and swamps (assorted willow freshwater). Vegetation communities include freshwater wetlands, wetland-riparian.	May-Oct (Nov)	**Potential to occur**. Marginally suitable habitat is present in the BSA adjacent to aquatic resources such as creeks, canals, and ditches. There is one CNDDB occurrence within 5 miles of the BSA. This species was not found within areas of suitable habitat during the appropriately timed botanical surveys.

[a] Status designations are as follows:
Federal Designation:
(T) Federally Threatened
State Designation:
(E) State Endangered

CNPS California Rare Plant Rank (CRPR):
(1B) Rare, threatened, or endangered in California and elsewhere

Threat Rank:
0.2 Fairly threatened in California (20% to 80% of occurrences threatened/moderate degree and immediacy of threat)

Sources:
USFWS 2023a; CDFW 2023; CNPS 2023

Table 5.4-3. Special-Status Wildlife Species

Scientific Name/ Common Name	Status[a]			Habitat	Potential for Occurrence within the BSA
	Federal	State	CDFW		
Desmocerus californicus dimorphus/ Valley elderberry longhorn beetle	T	—	—	Valley elderberry longhorn beetles are found in riparian habitat only in the vicinity of their host plant, the elderberry (*Sambucus* species).	**Potential to occur.** Host plant, elderberry (*Sambucus* sp.), occurs in the BSA. There are five CNDDB occurrences within 5 miles of the BSA.
Agelaius tricolor/ Tricolored blackbird	BCC	T	SSC	Found in areas near water, such as marshes, grasslands, and wetlands. They require some sort of substrate nearby to build nests. This substrate is often in the form of aquatic vegetation. They also need foraging areas, which can consist of grassland or agricultural pastures such as rice, grain, or alfalfa.	**Potential to occur.** There is suitable nesting habitat present along canals and creeks within the BSA, and suitable foraging habitat in grassland habitats and agricultural areas. There are four CNDDB occurrences within 5 miles of the BSA.
Athene cunicularia/ Burrowing owl	BCC	—	SSC	Open, dry annual or perennial grasslands with low growing vegetation and on the margins of disturbed/developed habitats. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**Potential to occur.** Suitable habitat is present in the BSA, including burrows along the margins of vineyards, orchards, and other agricultural developments. There are no CNDDB occurrences within 5 miles of the BSA.
Buteo swainsoni/ Swainson's hawk	BCC	T	—	Suitable foraging habitat includes a variety of agriculture crops, grassland, and pasture. Alfalfa fields are more routinely used by foraging Swainson's hawks than any other crop type. Suitable nesting habitat includes trees within mature riparian forest or corridors, lone oak trees and oak groves, and mature roadside trees.	**Likely to occur.** There is suitable nesting and foraging habitat within the BSA in tall emergent trees and throughout agriculture areas. There are 38 CNDDB occurrences within 5 miles of the BSA.

Scientific Name/ Common Name	Status[a]			Habitat	Potential for Occurrence within the BSA
	Federal	State	CDFW		
Elanus leucurus/ White-tailed kite	—	—	FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows for foraging close to isolated, dense-topped trees for nesting and perching.	**Potential to occur.** There is suitable foraging and nesting habitat present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.
Riparia riparia/ Bank swallow	BCC	T	—	Nesting colonies dug into the sides of sandy cliffs or banks or pick them out of mixed swallow flocks as they catch insects over the water.	**Potential to occur.** Suitable foraging habitat is present within the BSA along natural and constructed watercourses. There is one CNDDB occurrence within 5 miles of the BSA.
Setophaga petechia/ Yellow warbler	—	—	SSC	Breed in shrubby thickets and woods, particularly along watercourses and in wetlands. Common trees include willows, alders, and cottonwoods across North America.	**Potential to occur.** Suitable foraging and nesting habitat are present within the BSA. There is one CNDDB occurrence within 5 miles of the BSA.

[a] Status designations are as follows:
Federal Designations:
(BCC) Bird of Conservation Concern
(T) Federally Threatened

State Designations:
(T) State Threatened
(CE) Candidate Endangered

CDFW Designations:
(SSC) Species of Special Concern
(FP) Fully Protected

Sources:
CDFW 2023; NMFS 2023; USFWS 2023a

Swainson's Hawk

The Swainson's hawk (*Buteo swainsoni*) is listed as threatened under the CESA and is a USFWS BCC. This species is highly gregarious, forming colonies that number in the thousands (Brown and Amadon 1970). This species winters principally in South America and less commonly in Mexico and the southern tip of the United States (Fuller et al. 1998). The Swainson's hawk arrives in California as early as March, where adults reach breeding areas in the Central Valley. This species prefers large prairies, pastures, and narrow bands of riparian vegetation along watercourses, and small, isolated stands of valley oak (*Quercus lobata*) for nesting. However, the Swainson's hawk has been found in urban neighborhoods and agricultural developments (England et al. 1995). Rapid urbanization or crop changes near cities could cause the long-term decline of Swainson's hawks in existing urban neighborhoods. Mating pairs often return to their previous nest location or within proximity to it for recurring breeding seasons (Brown and Amadon 1970).

There are 38 CNDDB occurrences within 5 miles of the BSA. There is potential for this species to occur in the vicinity of the proposed PG&E and LEU BSAs because there is suitable nesting and marginally suitable foraging habitat within and adjacent to the BSA. Suitable nesting habitat occurs in large trees that are common along roadways, in residential and agricultural areas, and along watercourses such as Bear Creek and Paddy Creek. Foraging habitat is marginal within the BSA, primarily in areas of fragmented grassland or pastureland. The dominant agriculture uses within the BSA (vineyard, cherry and walnut trees) are not preferred by Swainson's hawk and, therefore, provide low-quality foraging habitat.

White-tailed Kite

The white-tailed kite (*Elanus leucurus*) is a California FP species. This species inhabits rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. This species forages in grasslands, marshes, riparian edges, and cultivated fields where prey species (mainly small mammals) are relatively abundant (Kaufman 1996). Kites typically nest on the tops of trees close to good foraging locations.

There is marginally suitable nesting and foraging habitat for the species in the vicinity of the proposed PG&E and LEU BSAs, where the BSAs include or are in proximity to grasslands, pastures, and agricultural areas that may support small mammal prey. There is no suitable nesting habitat for this species within either the PG&E or LEU project footprints, but there is suitable nesting habitat in the form of dense-top trees along roadways, in residential and agricultural areas, and along watercourses such as Bear Creek and Paddy Creek, within and near the BSAs for these utilities. There is potential for the species to forage in undeveloped areas in the vicinity of all work locations. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.

Bank Swallow

The bank swallow (*Riparia riparia*) is listed as threatened under the CESA and is a USFWS BCC. This species is sociable with its nesting habits, and nesting colonies often contain from a dozen to many hundreds of breeding pairs. (Beyer 1938). It winters in eastern and southern Africa, South America, and the Indian subcontinent and returns to the United States for breeding toward the end of March. It leaves breeding ranges by the end of September.

Bank swallows build nests, often in large colonies, in vertical banks and bluffs (Beyer 1938). These colonies usually are made in loose soils into which the birds can burrow easily. Each individual Bank swallow chooses first a colony, according to its location, and then a nest site within the colony area. The male begins to dig a burrow into the bank before he has a mate; the female then hovers in front of burrows to choose a mate and his nest site (Petersen 1955). The nests usually are located mostly in the upper third of the bank to avoid ground predators. Increasing urbanization and loss of nesting habitat has caused a rapid decline of Bank swallows in their existing Californian ranges.

There is one CNDDB occurrence within 5 miles of the BSA. There is potential nesting and foraging habitat within the BSA, along the creek banks of Bear Creek and Paddy Creek. No suitable habitat occurs within or adjacent to the LEU portion of the project. Mixed swallow flocks were observed during the reconnaissance-level survey conducted in December of 2019.

Yellow Warbler

The yellow warbler (*Setophaga petechia*) is a CDFW SSC. Nest preference of this species is shrubby thickets and woods along watercourses (CDFW 2023). Common trees that are used for nesting locations are willows, alders (*Alnus* ssp.), and cottonwoods (*Populus* spp.) (CDFW 2023).

There is one CNDDB occurrence within 5 miles of the BSA. Sparse willows along the banks of Bear Creek, Paddy Creek and associated drainages within the BSA may provide marginally suitable nesting habitat, however these areas do not constitute 'dense thickets', and are considered low quality. Potential foraging habitat includes deciduous trees and shrubs that support insect prey and could occur throughout the BSA along the proposed PG&E 230 kV transmission line. No suitable habitat occurs within or adjacent to LEU portion of the project.

5.4.1.5 Habitat Conservation Plans

The SJMSCP provides compensation for the conservation of open space to non-open space uses that affect the plant, fish, and wildlife species covered by the SJMSCP for permitted activities. The project is considered a permitted activity because it is a utility installation, but it does not result in the conversion of open space into non-open space. However, based on the project design, biological resources APMs and BMPs, and avoidance and minimization measures (AMMs), the project will avoid take of special-status species covered under the SJMSCP and, therefore, coverage under the SJMSCP will not be needed.

PG&E has a Habitat Conservation Plan (HCP), the SJVHCP (PG&E 2006), for its O&M activities in the San Joaquin Valley. The SJVHCP authorizes incidental take of 23 wildlife and 42 plant species for 33 routine O&M activities for PG&E's electric and gas transmission and distribution systems within nine counties of the San Joaquin Valley, including San Joaquin County. This project is included within the boundaries of the SJVHCP. Although construction of the proposed project itself is not a covered activity under the SJVHCP, following construction, O&M activities for the electrical system, including Inspections (O&M activity E2) and Electrical System Tower Replacement or Repair (O&M activity E6), would be covered activities (PG&E 2008). At this time, surveys indicate that the project will avoid take of special-status species covered under the SJVHCP. Should conditions change or potential impacts to special-status species become apparent during future O&M activities, those activities will be reevaluated for coverage provided by the SJVHCP.

Construction practices and APMs are designed to be compatible with the PG&E SJVHCP AMMs, which have been reviewed and approved previously by USFWS and CDFW.

5.4.2 Regulatory Setting

5.4.2.1 Federal

Endangered Species Act

The federal ESA (16 United States Code [USC] 1531–1544), as amended, protects plants, fish, and wildlife that are listed as endangered or threatened by the USFWS or the NMFS. Section 9 of the ESA prohibits the "take" of listed fish and wildlife, where "take" is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct" (50 CFR 17.3). For plants, this statute prohibits removing, possessing, maliciously damaging, or destroying any listed plant *under federal jurisdiction* and removing, cutting, digging up, damaging, or destroying any listed plant in knowing violation of state law (16 USC 1538).

The ESA allows for issuance of incidental take permits to private parties either in conjunction with an HCP or as part of a Section 7 consultation (which is discussed in the following paragraph). Under Section 10 of the ESA, a private party may obtain incidental take coverage by preparing an HCP to cover target species within the project footprint, identifying impacts to the covered species, and presenting the measures that will be undertaken to avoid, minimize, and mitigate these impacts.

Under Section 7 of the ESA, federal agencies are required to consult with USFWS and NMFS, as applicable, if their actions—including permit approvals or funding—may affect a federally listed species (including plants) or designated critical habitat. If the project is likely to adversely affect a species, the federal agency will initiate formal consultation with the USFWS or NMFS, which will issue a biological opinion as to whether the proposed agency action(s) is likely to jeopardize the continued existence of a listed species (jeopardy) or adversely modify critical habitat (adverse modification). As part of the biological opinion, the USFWS may issue an incidental take statement allowing take of the species that is incidental to an otherwise authorized activity, provided that the action will not jeopardize the continued existence of the species or adversely modify designated critical habitat.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 (16 USC 703–711) protects all migratory birds, including active nests and eggs. Birds protected under the MBTA include all native waterfowl, shorebirds, hawks, eagles, owls, doves, and other common birds such as ravens, crows, sparrows, finches, swallows, and others, including their body parts (for example feathers and plumes), active nests, and eggs. A complete list of protected species can be found in 50 CFR 10.13. Enforcement of the provisions of the federal MBTA is the responsibility of USFWS.

Bald and Golden Eagle Protection Act

The BGEPA (16 USC 668) prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" Bald Eagles, including their parts, nests, or eggs. The Act provides criminal and civil penalties for persons who "take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any Bald Eagle ... [or any Golden Eagle], alive or dead, or any part, nest, or egg thereof." The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." "Disturb" is defined as "agitate or bother a Bald or Golden Eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an Eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior."

Waters and Wetlands: Clean Water Act Sections 401 and 404

The purpose of the Clean Water Act (CWA) (33 USC 1251 et seq.) is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Waters of the United States include rivers, streams, estuaries, the territorial seas, ponds, lakes, and wetlands. Wetlands are defined as those areas "that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 328.3).

The USACE issues permits for work in wetlands and other waters of the United States based on guidelines established under Section 404 of the CWA. This regulation prohibits the discharge of dredged or fill material into waters of the United States, including wetlands, without a permit from the USACE. The EPA also has authority over wetlands and may, under Section 404(c), veto a USACE permit.

Section 401 of the CWA requires all Section 404 permit actions to obtain a state Water Quality Certification or waiver, as described in more detail in Section 5.10, Hydrology and Water Quality.

5.4.2.2 State

California Endangered Species Act

Sections 2050–2098 of the California Fish and Game Code (CESA) prohibit the take of state-listed endangered and threatened species unless specifically authorized by the CDFW. The state definition of "take" is to hunt, pursue, catch, capture, or kill a member of a listed species or attempt to do so. CDFW administers CESA and authorizes take through permits or memorandums of understanding issued under Section 2081 of CESA, or through a consistency determination issued under Section 2080.1. Section 2090 of CESA requires state agencies to comply with threatened and endangered species protection and recovery and to promote conservation of these species.

Protection for Lakes and Streams: Fish and Game Code

CDFW requires a Lake or Streambed Alteration Notification, pursuant to Fish and Game Code Section 1600 et seq., for project activities affecting lakes or streams and associated riparian habitat. Notification is required for any activity that may substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank, including associated riparian or wetland resources; or deposit or dispose of material where it may pass into a river, lake, or stream.

Fully Protected Species: Fish and Game Code

The Fish and Game Code designates certain fish and wildlife species as "fully protected" under sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish). Fully protected species may not be taken or possessed at any time, and no permits may be issued for the project for incidental take of these species.[13]

Protection for Birds: Fish and Game Code

Fish and Game Code Section 3503 et seq. state that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders of *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird.

Native Plant Protection Act of 1973

The Native Plant Protection Act of 1973 (Fish and Game Code Sections 1900 to 1913) includes provisions that prohibit the taking of endangered or rare native plants. CDFW administers the Native Plant Protection Act and generally regards as rare many plant species included on the California Rare Plant Rank (CRPR) 1A, 1B, 2A, and 2B of the CNPS *Inventory of Rare, Threatened, and Endangered Plants of California*. In addition, sometimes CRPR 3 and 4 plants are considered if the population has local significance in the area and is impacted by the project.

Section 1913(b) includes a specific provision to allow for the incidental removal of endangered or rare plant species, if not otherwise salvaged by CDFW, within a ROW to allow a public utility to fulfill its obligation to provide service to the public.

California Species of Special Concern

"Species of Special Concern" is a category conferred by CDFW to fish and wildlife species that meet the state definition of threatened or endangered, but have not been formally listed (for example, federally or state-listed species), or are considered at risk of qualifying for threatened or endangered status in the

[13] While take of fully protected species may be authorized by CDFW under an NCCP, the PG&E project is not covered by an NCCP, so this permitting option is not available.

future based on known threats. SSC is an administrative classification only, but these species should be considered "special status" for the purposes of the CEQA analysis (refer to Section 5.4.4.1 of this document).

Porter-Cologne Water Quality Control Act

The SWRCB and the nine Regional Water Quality Control Boards (RWQCBs) have jurisdiction over all surface water and groundwater in California, including wetlands, headwaters, and riparian areas. The SWRCB or applicable RWQCB must issue waste discharge requirements for any activity that discharges waste that could affect the quality of waters of the state, as described in more detail in Section 5.10, Hydrology and Water Quality.

5.4.2.3 Local

Because the CPUC has exclusive jurisdiction over the siting, design, and construction of the project, the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process. This section includes a summary of local or regional plans, policies, or regulations that identify sensitive or special-status species in the project footprint, as well as local policies or ordinances that protect biological resources.

The City of Lodi is a local agency and must comply with its own local plans and policies.

San Joaquin County General Plan

Per the *San Joaquin County General Plan*, the County will protect significant biological and ecological resources, including wetlands; riparian areas; vernal pools; significant oak woodlands and heritage trees; and rare, threatened, and endangered species and their habitats. The General Plan addresses and provides a framework for the County's environmental resources preservation. The General Plan includes goals, objectives, and policies that pertain to the comprehensive long-range management, preservation, and conservation of open-space lands. All development decisions must be consistent with the General Plan (San Joaquin County 2016).

Williamson Act

The California Land Conservation Act of 1965, Sections 51200 et seq. of the California GC, commonly referred to as the Williamson Act, enables local governments to restrict the use of specific parcels of land to agricultural or related open-space use. Landowners enter into contracts with participating cities and counties and agree to restrict their land to agriculture or open-space use for a minimum of 10 years.

San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

The key purpose of the SJMSCP is to provide a strategy for balancing the need to conserve open space and the need to convert open space to nonopen space uses while protecting the region's agricultural economy; preserving landowner property rights; providing for the long-term management of plant, fish, and wildlife species, especially those that are currently listed, or may be listed in the future, under the ESA or CESA; providing and maintaining multiple-use open spaces that contribute to the quality of life of the residents of San Joaquin County; and accommodating a growing population while minimizing costs to project proponents and society at large. The SJMSCP covers all of San Joaquin County except for federally owned lands (San Joaquin County 2000).

Permitted activities covered under the SJMSCP include urban development, mining, expansion of existing urban boundaries, nonagricultural activities occurring outside of urban boundaries, levee maintenance undertaken by the San Joaquin Area Flood Control Agency, transportation projects, school expansions, nonfederal flood control projects, new parks and trails, maintenance of existing facilities for nonfederal

irrigation district projects, utility installation, maintenance activities, managing preserves, and similar public agency projects.

Based on the project design, biological resources APMs, and PG&E SJVHCP AMMs, the project will avoid take of special-status species covered under the SJMSCP and, therefore, coverage under the SJMSCP will not be needed.

San Joaquin County Riparian Habitat Ordinance

San Joaquin County's natural resources regulations contain provisions to preserve County riparian habitat resources (San Joaquin County 2016). A Riparian Habitat Mitigation Plan would be required when an action is proposed that has the potential to destroy, eliminate, or degrade riparian habitat in the County.

San Joaquin County Tree Ordinance

San Joaquin County's natural resources regulations contain provisions to preserve County tree resources (San Joaquin County 2016). The removal of a native oak tree, heritage oak tree, or historical tree requires an approved improvement plan application, which requires replacement of the tree. Removals by a public utility that are necessary to protect electric power lines are not subject to the regulations (MuniCode 2023).

City of Lodi General Plan

The Conservation Element of the *City of Lodi General Plan* establishes policies for the conservation of natural resources in Lodi. Topics addressed include agricultural and soil resources; biological resources; cultural and historic resources; hydrology and water quality; energy and climate change; and air quality. The General Plan supports the protection, preservation, restoration, and enhancement of habitats of state or federally listed rare, threatened, endangered, and other sensitive and special-status species, and favors enhancement of contiguous areas over small, segmented remainder parcels (City of Lodi 2010).

5.4.3 Impact Questions

The project's potential effects on biological resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.4-4 and discussed in more detail in Section 5.4.4.

Table 5.4-4. CEQA Checklist for Biological Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	☐	☐	☒	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including marsh, vernal pool, coastal, and others) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☒	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

5.4.3.1 Additional CEQA Impact Questions

The project's potential effects on biological resources also were evaluated using the California Public Utility Commission's Additional CEQA Impact Questions for Transportation in the *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments* (CPUC 2019). These additional impact questions are evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.4-5 and discussed in more detail in Section 5.4.4.

Table 5.4-5. Additional CEQA Impact Questions for Biological Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Create a substantial collision or electrocution risk for birds or bats?	☐	☐	☒	☐

5.4.4 Potential Impact Analysis

The following sections describe significance criteria for impacts related to biological resources derived from Appendix G of the CEQA Guidelines, provide APMs and BMPs, and assess potential project-related construction and operational impacts on biological resources. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.4.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "… a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project-related impacts on biological resources were evaluated for each of the criteria listed in Tables 5.4-4 and 5.4-5, as discussed in Section 5.4.4.3.

5.4.4.2 Applicant-Proposed Measures and Best Management Practices

PG&E and LEU will implement their respective APMs and BMPs. These include measures developed specifically for this project (APM/BMP BIO-1 through APM/BMP BIO-10) and required measures under the PG&E SJVHCP (PG&E SJVHCP AMM-1 through AMM-11). Refer to Appendix C6 for the PG&E Nesting Birds: Species-Specific Buffers.

APM BIO-1: Develop and implement a PG&E Worker Environmental Awareness Program. A PG&E biologist familiar with resources in the area and with delivering Worker Environmental Awareness Programs will conduct an environmental awareness program for all onsite construction personnel before they begin work on the project. Training will include a discussion of the avoidance and minimization measures that are being implemented to protect biological resources as well as the terms and conditions of project permits. Training will include information about the federal and state Endangered Species Acts and the consequences of noncompliance with these acts. Under this program, workers will be informed of the presence, life history, and habitat requirements of all special-status species that may be affected by the PG&E portion of the project, and about state and federal laws protecting nesting birds, wetlands, and other water resources. An educational brochure will be produced for construction crews working on the project. Color photos of special-status species will be included, as well as a discussion of relevant APMs and specific avoidance or minimization measures for special-status species and habitats.

BMP BIO-1: Develop and implement an LEU Worker Environmental Awareness Program. A biologist for the LEU portion of the project who is familiar with resources in the area and with delivering Worker Environmental Awareness Programs will conduct an environmental awareness program for all onsite construction personnel before they begin work on the project. Training will include a discussion of the avoidance and minimization measures that are being implemented to protect biological resources as well as the terms and conditions of project permits. Training will include information about the federal and state Endangered Species Acts and the consequences of noncompliance with these acts. Under this program, workers will be informed of the presence, life history, and habitat requirements of all special-status species that may be affected by the LEU portion of the project, and about state and federal laws protecting nesting birds, wetlands, and other water resources. An educational brochure will be produced for construction crews working on the project. Color photos of special-status species will be included, as well as a discussion of relevant BMPs and specific avoidance or minimization measures for special-status species and habitats.

APM BIO-2: Avoid and protect nesting birds from PG&E impact. If construction is to occur during the avian nesting season (March 1 through August 15), a preconstruction migratory bird and raptor nesting survey will be performed by a PG&E biologist who is familiar with local avian species and nesting birds. Surveys will occur only in publicly accessible areas and areas where PG&E has existing access; private property will not be accessed and will instead be observed from adjacent accessible areas.

Preconstruction nesting bird surveys will be performed in accordance with PG&E's Nesting Bird Management Plan. The preconstruction survey will cover a radius of 200 feet for nonlisted raptors and 100 feet for nonlisted passerines from project locations that will be actively worked at in the near term. Surveys for Swainson's hawk will cover a 0.25-mile radius from the project footprint. The survey will cover all affected areas where ground disturbance or vegetation clearing is required in the near term. Subsequent surveys will be conducted in advance of other project locations becoming active. If any active nests containing eggs or young are found, an appropriate nest exclusion zone will be established by the PG&E biologist in accordance with PG&E's Nesting Bird Management Plan. No heavy equipment will be operated in this exclusion zone until the biologist has determined that the nest is no longer active and the young have fledged. If it is not practicable to avoid work in an exclusion zone around an active nest, work activities will be modified to minimize disturbance of nesting birds but may proceed in these zones at the discretion of the biologist. As appropriate, the biologist will monitor work activities in these zones daily or periodically when construction is occurring and assess their effect on the nesting birds. If the biologist determines that particular activities pose a high risk of disturbing an active nest, the biologist will recommend additional, feasible measures to minimize the risk of nest disturbance. If work cannot proceed without disturbing the nesting birds, or signs of disturbance are observed by the monitor, work may need to be halted or redirected to other areas until the nesting and fledging is completed or the nest has otherwise failed for reasons not related to construction.

BMP BIO-2: Avoid and protect nesting birds from LEU impact. If construction is to occur during the avian nesting season (March 1 through August 15), a preconstruction migratory bird and raptor nesting survey will be performed by a biologist for the LEU portion of the project who is familiar with local avian species and nesting birds. Surveys will occur only in publicly accessible areas and areas where LEU has existing access; private property will not be accessed and will instead be observed from adjacent accessible areas.

The preconstruction survey will cover a radius of 200 feet for nonlisted raptors and 100 feet for nonlisted passerines from project locations that will be actively worked at in the near term. Surveys for Swainson's hawk will cover a 0.25-mile radius from the LEU project footprint. The survey will cover all affected areas where ground disturbance or vegetation clearing is required in the near term. Subsequent surveys will be conducted in advance of other project locations becoming active. If any active nests containing eggs or young are found, an appropriate nest exclusion zone will be established by the biologist. No heavy equipment will be operated in this exclusion zone until the biologist has determined that the nest is no longer active and the young have fledged. If it is not practicable to avoid work in an exclusion zone around an active nest, work activities will be modified to minimize disturbance of nesting birds but may proceed in these zones at the discretion of the biologist. As appropriate, the biologist will monitor work activities in these zones daily or periodically when construction is occurring and assess their effect on the nesting birds. If the biologist determines that particular activities pose a high risk of disturbing an active nest, the biologist will recommend additional, feasible measures to minimize the risk of nest disturbance. If work cannot proceed without disturbing the nesting birds, or signs of disturbance are observed by the monitor, work may need to be halted or redirected to other areas until the nesting and fledging is completed or the nest has otherwise failed for reasons not related to construction.

APM BIO-3: Identify and mark sensitive biological resource areas near PG&E portion of the project. Sensitive biological resources (for example, aquatic resources and nesting birds) in or adjacent to PG&E construction work areas identified during the preconstruction surveys will be clearly marked in the field and on project maps as appropriate. Such areas will be avoided during construction to the greatest extent feasible.

BMP BIO-3: Identify and mark sensitive biological resource areas near LEU portion of the project. Sensitive biological resources (for example, nesting birds) in or adjacent to LEU construction work areas identified during the preconstruction surveys will be clearly marked in the field and on project maps as appropriate. Such areas will be avoided during construction to the greatest extent feasible.

APM BIO-4: Install exclusion fencing near PG&E portion of the project. At the discretion of the PG&E biologist, prior to any ground-disturbing work in proximity to suitable habitat for special-status species or adjacent to wetlands or waters, exclusion fence will be installed around PG&E workspaces as appropriate.

Exclusion fencing will be routinely inspected during project activities and any damage, such as holes or gaps, will be promptly repaired.

BMP BIO-4: Install exclusion fencing near LEU portion of the project. At the discretion of the LEU biologist, prior to any ground-disturbing work in proximity to suitable habitat for special-status species, exclusion fence will be installed around LEU workspaces as appropriate. Exclusion fencing will be routinely inspected during project activities and any damage, such as holes or gaps, will be promptly repaired.

APM BIO-5: Allow biological monitor onsite during PG&E construction activities in sensitive biological resource areas. At the discretion of the PG&E biologist, a qualified biologist will be onsite during construction activities in sensitive biological resource areas identified in APM BIO-4 unless the area has been protected by barrier fencing to protect sensitive biological resources and previously cleared by the qualified biologist and the PG&E biologist. The qualified biologist will ensure implementation and compliance with all avoidance and mitigation measures and have the authority to stop or redirect work if construction activities are likely to affect sensitive biological resources.

BMP BIO-5: Allow biological monitor onsite during LEU construction activities in sensitive biological resource areas. At the discretion of the biologist for the LEU portion of project, a qualified biologist will be onsite during construction activities in sensitive biological resource areas identified in BMP BIO-4 unless the area has been protected by barrier fencing to protect sensitive biological resources and previously cleared by the qualified biologist and the biologist for the LEU portion of project. The qualified biologist will ensure implementation and compliance with all avoidance and mitigation measures and have the authority to stop or redirect work if construction activities are likely to affect sensitive biological resources.

APM BIO-6: Avoid and protect special-status amphibians from PG&E impact. During wet weather or the rainy season, all open holes, pits, and trenches at PG&E work areas will be protected to ensure that wildlife does not become entrapped. Protective fencing, coverings, or ramps will be installed to either prevent wildlife from falling into excavations or to allow for escape if they do. At the end of each workday, steep-walled holes or trenches more than approximately 6 inches deep will be covered or provided with one or more escape ramps and/or fenced. Open excavations will be inspected, prior to the start of construction activities, to ensure that no wildlife is trapped. Construction personnel also will check underneath vehicles and within materials to be moved (that is, tires, tracks, pipes) for the presence of frogs when parked or placed near suitable aquatic or upland dispersal habitat.

APM BIO-7: Implement general protection measures for wetlands and other waters near PG&E portion of the project. PG&E will implement the following general measures to minimize or avoid impacts on wetlands and other waters:

- Avoid wetlands and other waters during construction activities.
- Do not refuel vehicles within approximately 100 feet of a wetland, stream, or other waterway unless a bermed and lined refueling area is constructed.
- Implement an SWPPP to minimize construction-related erosion and sediments from entering nearby waterways (refer to APM HYD-1).

APM BIO-8: Implement general resource protection measures for PG&E portion of the project. This APM consists of the following components:

- ***Hazardous materials spills.*** Emergency spill response and cleanup kits will be readily available for immediate containment and cleanup of an accidental spill. Construction crews will be trained in safe handling of hazardous materials and cleanup responsibilities. Any inadvertent spills into aquatic habitat will be reported to the applicable resource agencies within 24 hours.
- ***Reporting and communication.*** The PG&E biologist will be responsible for immediately reporting any capture and relocation, or inadvertent harm, entrapment, or death, of a federally or state-listed species under ESA or CESA to the applicable resource agencies.

- ***Restoring temporarily disturbed habitats.*** All habitat areas for special-status species that are temporarily disturbed as a result of project activities will be restored upon completion of construction. Disturbed areas will be restored and revegetated in coordination with landowners. Many areas are actively cultivated or grazed and landowners may request replanting of similar crops or plant species as existed previously. These may not necessarily be native plant species. For PG&E-owned parcels, revegetation would be accomplished through application of a habitat-appropriate native seed mix. Restoration is anticipated to be completed within approximately 6 to 9 months after the project, depending on landowner requests and the season in which disturbance activities and subsequent restoration activities will take place.
- ***Erosion control materials.*** Only tightly woven netting or similar material will be used for all geosynthetic erosion control materials such as coir rolls and geotextiles. No plastic monofilament matting will be used. Sod may be used when restoring landscaped areas.
- ***Minimizing grading and vegetation removal along access roads and construction work areas.*** PG&E will only trim, clear, or remove vegetation as necessary to establish the access routes and allow equipment use. Trees will be directionally felled away from sensitive biological resource areas and, if that is not possible, they will be removed in sections. Damage to adjacent trees will be avoided to the greatest extent possible.
- ***Weed management.*** Vehicles and construction equipment will be cleaned of mud and dirt as needed to minimize transport of weed plant parts or seed. Vehicles also will be cleaned at the completion of the project or when off-road use for that vehicle has been completed.

BMP BIO-8: Implement general resource protection measures for LEU portion of the project. This BMP consists of the following components:

- ***Hazardous materials spills.*** Emergency spill response and cleanup kits will be readily available for immediate containment and cleanup of an accidental spill. Construction crews will be trained in safe handling of hazardous materials and cleanup responsibilities. Any inadvertent spills into aquatic habitat will be reported to the applicable resource agencies within 24 hours.
- ***Reporting and communication.*** The LEU biologist will be responsible for immediately reporting any capture and relocation, or inadvertent harm, entrapment, or death, of a federally or state-listed species under ESA or CESA to the applicable resource agencies.
- ***Erosion control materials.*** Only tightly woven netting or similar material will be used for all geosynthetic erosion control materials such as coir rolls and geotextiles. No plastic monofilament matting will be used.
- ***Minimizing grading and vegetation removal along access roads and construction work areas.*** LEU will only trim, clear, or remove vegetation as necessary to establish the access routes and allow equipment use. Trees will be directionally felled away from sensitive biological resource areas and, if that is not possible, they will be removed in sections. Damage to adjacent trees will be avoided to the greatest extent possible.
- ***Weed management.*** Vehicles and construction equipment will be cleaned of mud and dirt as needed to minimize transport of weed plant parts or seed. Vehicles also will be cleaned at the completion of the project or when off-road use for that vehicle has been completed.

APM BIO-9: Prevent avian electrocution from PG&E project facilities. PG&E conductors and ground wires would be spaced sufficiently apart, as feasible, so that raptors cannot contact two conductors or one conductor and a ground wire, causing electrocution (APLIC 2006).

BMP BIO-9: Prevent avian electrocution from LEU project facilities. LEU conductors and ground wires would be spaced sufficiently apart, as feasible, so that raptors cannot contact two conductors or one conductor and a ground wire, causing electrocution (APLIC 2006).

APM BIO-10: Protect birds on PG&E power lines. All PG&E transmission and power lines and PG&E switching station and substation facilities for the project will be designed to be avian-safe as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012).

BMP BIO-10: Protect birds on LEU power lines. All LEU transmission and power lines and LEU substation facilities for the project will be designed to be avian-safe as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012).

PG&E SJVHCP Required Measures

PG&E SJVHCP AMM-1: Employees and contractors performing O&M activities will receive ongoing environmental education. Training will include review of environmental laws and guidelines that must be followed by all personnel to reduce or avoid effects on covered species during O&M activities.

PG&E SJVHCP AMM-2: Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas to the extent practicable.

PG&E SJVHCP AMM-3: The development of new access and ROW roads by PG&E will be minimized and clearing vegetation and blading for temporary vehicle access will be avoided to the extent practicable.

PG&E SJVHCP AMM-4: Vehicles will not exceed a speed limit of 15 mph in the ROWs or on unpaved roads within sensitive land-cover types.

PG&E SJVHCP AMM-5: Trash dumping, firearms, open fires (such as barbecues) not required by the O&M activity, hunting, and pets (except for safety in remote locations) will be prohibited in O&M work activity sites.

PG&E SJVHCP AMM-6: No vehicles will be refueled within 100 feet of a wetland, stream, or other waterway unless a bermed and lined refueling area is constructed.

PG&E SJVHCP AMM-7: During any reconstruction of existing overhead electric facilities in areas with a high risk of wildlife electrocution (e.g., nut/fruit orchards, riparian corridors, areas along canal or creek banks, PG&E's raptor concentration zone), PG&E will use insulated jumper wires and bird/animal guards for equipment insulator bushings or will construct lines to conform to the latest revision of PG&E's Bird and Wildlife Protection Standards.

PG&E SJVHCP AMM-8: During fire season in designated State Responsibility Areas, all motorized equipment will have federal or state approved spark arrestors; a backpack pump filled with water and a shovel will be carried on all vehicles; and fire-resistant mats and/or windscreens will be used when welding. In addition, during fire "red flag" conditions as determined by CDF, welding will be curtailed, each fuel truck will carry a large fire extinguisher with a minimum rating of 40 B:C, and all equipment parking and storage areas will be cleared of all flammable materials.

PG&E SJVHCP AMM-9: Erosion control measures will be implemented where necessary to reduce erosion and sedimentation in wetlands, waters of the United States, and waters of the state, and habitat occupied by covered animal and plant species when O&M activities are the source of potential erosion problems.

PG&E SJVHCP AMM-10: If an activity disturbs more than 0.25 acre in a grassland, and the landowner approves or it is within PG&E rights and standard practices, the area should be returned to pre-existing conditions and broadcast-seeded using a commercial seed mix. Seed mixtures/straw used for erosion control on projects of all sizes within grasslands will be certified weed-free. PG&E shall not broadcast-seed (or apply in other manner) any commercial seed or seed-mix to disturbance sites within other natural land-cover types, within any vernal pool community, or within occupied habitat for any plant covered species.

PG&E SJVHCP AMM-11: When routine O&M activities are conducted in an area of potential VELB habitat, a qualified individual will survey for the presence of elderberry plants within a minimum of 20 feet from the work site. If elderberry plants have one or more stems measuring 1 inch or more in diameter at ground level, the qualified individual will flag those areas to avoid or minimize potential impacts on elderberry plants. If impacts (pruning/trimming, removal, ground disturbance, or damage) are unavoidable or occur, then additional measures identified in the VELB conservation plan and compliance brochure will be implemented. The VELB compliance brochure must be carried in all vehicles performing O&M activities within the potential range of VELB.

5.4.4.3 Potential Impacts

The significance criteria used for determining standards of significance for biological resources were derived from Appendix G of the CEQA Guidelines. Potential impacts to vegetation and wildlife are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

As described in Chapter 3, Project Description, the project will provide a new PG&E 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E's Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for nearly 11 miles. PG&E's Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E's Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU's Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new 60 kV lines (via the new PG&E 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E's Lockeford and Lodi substations. LEU distribution and third-party telecommunication underbuild on a PG&E 60 kV line portion being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station. Table 5.4-6 shows the temporary and permanent impacts to land cover types within the BSA associated with this project. Note that "agriculture" refers to a vegetation cover, not land use designations such as prime farmland. There will be no impacts to wetlands, other waters, or riparian habitat.

Table 5.4-6. Impacts to Land Cover within the Biological Study Area

Land Cover	Total Acres within BSA	Temporary Impacts (acres)	Permanent Impacts (acres)
Tree Cover	1.97	0.07	0.07
Other Waters	1.38	-	-
Wetlands	0.20	-	-
Riparian	0.90	-	-
Grassland	59.35	25.32	10.20
Agriculture	264.53	28.39	0.73
Ruderal	2.44	0.18	-
Developed/Disturbed	56.28	2.52	0.16
Total	**387.06**	**56.48**	**11.17**

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The PG&E portion of the project would have a less-than-significant impact to any candidate, sensitive, or special-status species populations and the incorporation of APMs and PG&E SJVHCP AMMs further minimizes the potential for impact.

There is low potential for direct and indirect effects to occur during project implementation. The project would not result in significant impacts to candidate, sensitive, or special-status species, and no reduction in the distribution of these species would occur. The majority of the project's habitat impacts would be temporary and would be restored to pre-existing conditions following project activities. The only permanent impacts would be associated with foundations for the tubular steel poles, the station facilities, and 60 kV poles replaced during reconfiguration of existing 60 kV lines.

Special-Status Plant Species

Special-status plants can be damaged or killed as a result of vegetation removal or trimming activities before construction by project vehicles traveling on access roads and/or by staging project vehicles and equipment in construction work areas. Special-status plants also can be indirectly affected by soil compaction and the spread of non-native invasive species from project vehicle and equipment travel and staging.

While succulent owl's clover and Sanford's arrowhead were determined to have the potential to occur within the BSA, they were not observed within areas of suitable habitat during appropriately timed botanical surveys, and the mesic habitats that they are associated with will not be impacted during project construction. As such, they are not expected to be present or adversely affected during project activities.

Special-Status Wildlife Species

Valley Elderberry Longhorn Beetle

The VELB and its various life stages have the potential to occur in the BSA wherever elderberry is found. Project activities, including removal of elderberry plants, could result in direct injury and mortality of VELBs. Elderberry stems that are at least 1 inch in diameter may contain one or more VELB eggs, larvae, pupae, or pre-emergent adults, and damage to or removal of these stems could impact the VELB. In these life stages within the elderberry host plant, individuals could be crushed and killed or eventually die as a result of the death and decay of the host plant material subsequent to damage or its removal from the growing host plant. During adult emergence, feeding, or dispersal, beetles could be injured or killed by vehicles or equipment during project activities. Potential indirect impacts on VELBs from elderberry plant removal include habitat fragmentation and alteration of the habitat structure and microclimate of the surrounding environment. Changes in habitat structure (vertical and horizontal distribution of plant life) and microclimate (such as solar radiation, temperature, relative humidity, and soil moisture) could negatively affect the behavior of the VELB in response to these changes in unforeseen ways. With implementation of APM BIO-3 and PG&E SJVHCP AMM-11, a focused survey will be conducted prior to construction to identify all elderberry shrubs within the project footprint. Two large elderberry shrubs with stems up to approximately 4-inches in diameter were identified during the 2021 botanical surveys. One shrub is located just within the project footprint, next to the proposed guard structure and pull site between PG&E proposed structures W1 and W2. The other shrub is located within the fence line of PG&E Lockeford Substation, surrounded by a small patch of grassland on the eastern side of the substation's general construction yard and outside of the project footprint. Elderberry shrubs will be marked and avoided, as feasible, during construction, which will avoid or minimize potential impact.

Tricolored blackbird, burrowing owl, Swainson's hawk, white-tailed kite, bank swallow, yellow warbler, and birds Protected under the MBTA and Fish and Game Code Section 3503

Suitable foraging habitat for these species is present in the vicinity of all the work locations and there is suitable nesting habitat for the tricolored blackbird, Swainson's hawk, bank swallow, and yellow warbler in the vicinity of the project footprint associated with the PG&E portion of the project. Project activities have the potential to impact nesting individuals of these and other species protected under the MBTA. Potential temporary impacts could include nest abandonment and degradation of foraging habitat. APM BIO-2 will be implemented to minimize the less-than significant potential to adversely affect these species and other nesting birds. APM BIO-1, APM BIO-3, and APM BIO-5 will be implemented to further minimize the potential to adversely affect these species and other nesting birds. Given the limited size of the work areas relative to the surrounding expanse of adjacent suitable foraging habitat areas, and the existing disturbed nature of the work areas, the temporary loss of foraging habitat is not expected to adversely affect these or other bird species.

LEU Potential Impact Discussion

The LEU portion of the project would have a less-than-significant impact to candidate, sensitive, or special-status species populations and the incorporation of BMPs further minimizes the potential for impact.

There is low potential for direct and indirect effects to sensitive biological resources to occur during the LEU portion of project implementation. The LEU portion of the project would not result in significant impacts to candidate, sensitive, or special-status species, and no reduction in the distribution of these species would occur. The majority of the LEU habitat impacts would be temporary and would be restored to pre-existing conditions following project activities. The only permanent impacts would be associated with the LEU Guild Substation facility, which is located in highly disturbed, ruderal grassland that is surrounded by industrial development. BMP BIO-1, BMP BIO-2, BMP BIO-3, BMP BIO-5, and BMP BIO-8 will be implemented to further minimize the less-than-significant potential to adversely affect these species and other nesting birds.

Burrowing Owl, Swainson's Hawk, White-tailed Kite, and Birds Protected under the MBTA and Fish and Game Code Section 3503

Suitable foraging habitat for these species is present in the vicinity of LEU Industrial and Guild Substations within annual grassland habitat, and there is suitable nesting habitat for burrowing owl and Swainson's hawk in the vicinity of the project footprint near the LEU portion of the project. Project activities have the potential to impact nesting individuals of these and other species protected under the MBTA. Potential temporary impacts could include nest abandonment and degradation of foraging habitat. BMP BIO-1, BMP BIO-2, BMP BIO-3, BMP BIO-5, and BMP BIO-8 will be implemented to further minimize the less-than-significant potential to adversely affect these species and other nesting birds. Given the limited size of the work areas relative to the surrounding expanse of adjacent suitable foraging habitat areas, and the existing disturbed nature of these work areas, the temporary loss of foraging habitat is not expected to adversely affect these or other bird species.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? *No Impact.*

PG&E Potential Impact Discussion

Within the PG&E portion of the project, riparian vegetation exists within the BSA (Figure 5.4-2, pages 3 and 4); however, it is not present within the project footprint. The majority of potential impacts associated with the PG&E portion of the project would occur within annual grasslands, agricultural land, and existing disturbed or developed areas, and no impacts to riparian habitat or other sensitive natural communities

would occur. All temporarily disturbed natural vegetation would be restored to pre-project or better conditions following construction.

There are work activities in proximity to riparian habitats, including free spans over several creeks; however, with implementation of APM BIO-1, APM BIO-3, APM BIO-4, APM BIO-5, APM BIO-7, and APM BIO-8, the potential for indirect impacts to riparian corridors and other sensitive natural communities will not occur. Therefore, there will be no impact to riparian habitats.

LEU Potential Impact Discussion

Within the LEU portion of the project, there is no riparian vegetation present. The majority of potential impacts associated with the LEU portion of the project would occur within annual grasslands and existing disturbed or developed areas, and no impacts to riparian habitat or other sensitive natural communities would occur. Therefore, there will be no impact.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? *No Impact.*

PG&E Potential Impact Discussion

Within the PG&E portion of the project, there are eight seasonal wetlands comprising approximately 0.200 acre, approximately 0.247 acre (approximately 359 linear feet) of natural watercourses (one perennial and one intermittent stream), approximately 0.545 acre (approximately 2,775 linear feet) of constructed watercourses, approximately 0.127 acre (approximately 1,805 linear feet) of drainage ditches in the BSA; however, none are within the project footprint, and none will be impacted (Figure 5.4-3). The access route to the work area at structure E18 from North Jack Tone Road and the access route to the staging area at PG&E Lockeford Substation from East Kettleman Lane will use established overland routes, such as driveways, that will avoid drainage ditches and constructed watercourses culverted beneath the access routes.

An irrigation ditch comprising approximately 0.152 acre (approximately 1,654 linear feet) within the BSA runs parallel to the access route and partially intersects the project footprint at structure W9. Based on historic aerial imagery and multiple field reviews of the area, this ditch appears to be excavated on a seasonal basis to water adjacent crops, and is then graded or filled after the growing season is completed. It has no natural or persistent OHWM (the limits of the ditch are the result of seasonal excavation), and is devoid of vegetation, and as such is presumed to be non-jurisdictional under the CWA and California Fish and Game Code. While this ditch is presumed to be non-jurisdictional, if it is present during construction, it will be avoided. Placement of this structure will be coordinated with the landowner during final design and construction planning to ensure impacts to this ditch are avoided.

With implementation of APM BIO-3, APM BIO-4, APM BIO-5, APM BIO-7, and APM BIO-8, these features will be avoided during all work activities and there will be no impact to state or federally protected wetlands.

LEU Potential Impact Discussion

Within the LEU portion of the project, there are no state or federally protected wetlands present. Therefore, there will be no impact.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Within the PG&E portion of the project, discrete portions of the project footprint are located within potential dispersal range for terrestrial wildlife, including amphibians, and if work activities occur during dispersal, it may impede movement. Aquatic and riparian habitat in the vicinity of the project footprint is low quality disturbed wetland and stream features that dry out seasonally, managed irrigation ditches, and the associated sparse riparian habitat, which makes for low-quality migratory wildlife corridors. The portions of the work area in the vicinity of aquatic habitat are surrounded by low-quality upland habitat largely characterized by developed and actively cultivated areas. In the unlikely event amphibians or other terrestrial wildlife species make overland movements during construction activities, fenced work areas, per APM BIO-4, would not impede their movements between the nearest breeding habitat and upland habitat given the amount of surrounding habitat and the limited size of the project footprint at each work location. Additionally, with implementation of APM BIO-6, wildlife species entrapment as a result of construction activities would be avoided. Disturbed areas would be restored to pre-existing conditions and there would be no migratory barriers present after completion of the project. Therefore, potential impacts would be less than significant.

During times of high flow and hydrological connectivity within Paddy Creek, Bear Creek, and their tributaries, these creeks could potentially provide migratory pathways for aquatic species. However, there will be no impacts to Bear Creek or Paddy Creek and, therefore, no impacts to migratory pathways for aquatic species. There are no known nesting rookeries for birds, spawning areas for native fish, fawning areas for deer, or maternal roosts for bats within the PG&E portion of the project.

Migratory birds may move through the PG&E portion of the BSA during work activities and may nest in the vicinity. Construction activities may temporarily degrade nesting habitat within the immediate vicinity of the work locations; however, any potential effect is expected to be minimal based on the disturbed nature of the work locations and the large amount of surrounding habitat. APM BIO-2 also will be implemented to minimize any potential impacts to nesting birds.

LEU Potential Impact Discussion

Within the LEU portion of the project, migratory birds may move through the BSA during work activities and may nest in the vicinity. Construction activities may temporarily degrade nesting habitat within the immediate vicinity of the work locations; however, any potential effect is expected to be minimal based on the disturbed nature of the work locations and the large amount of surrounding habitat. BMP BIO-2 also will be implemented to minimize any potential impacts to nesting birds. There are no known nesting rookeries for birds, spawning areas for native fish, fawning areas for deer, or maternal roosts for bats within the LEU portion of the project. Therefore, potential impacts to migratory birds and nursery sites would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Although not subject to local regulation, PG&E strives to be consistent with local requirements for the protection of biological resources, where feasible, while remaining consistent with safety considerations. According to the San Joaquin County natural resources regulation (Chapter 9-1505.3), the removal of a Native Oak Tree, Heritage Oak Tree, or Historical Tree requires an approved Improvement Plan application, which requires replacement of the tree. However, removals by a public utility that are necessary to protect electric power lines are not subject to the provisions of this chapter and, therefore, this project is not subject to preparing an Improvement Plan application. The project will be consistent with the County regulation. Trimming or removal of oaks may be necessary for construction access and would be conducted by a certified arborist to avoid impacting tree health or to make the decision to remove the tree if trimming is not feasible. In addition, APMs and AMMs (Section 5.4.4.2) would be implemented as part of

the project in accordance with agency permit conditions. Therefore, potential impacts would be less than significant.

LEU Potential Impact Discussion

LEU is subject to local regulation and strives to be consistent with local requirements for the protection of biological resources, where feasible, while remaining consistent with safety considerations. Project activities are not anticipated to conflict with any local policies or ordinances protecting biological resources. In addition, BMPs (Section 5.4.4.2) would be implemented as part of the project in accordance with agency permit conditions, so no impacts are anticipated.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? *No Impact.*

PG&E Potential Impact Discussion

The PG&E portion of the project is located within the boundaries of the SJMSCP and PG&E SJVHCP (PG&E 2006). Although the project is a permitted activity under the SJMSCP, based on the project design, biological resources, APMs, and AMMs, the project will avoid take of special-status species covered under the SJMSCP and, therefore, coverage under the SJMSCP is not expected to be obtained. Following construction, O&M activities associated with the project would be covered under the PG&E SJVHCP. PG&E SJVHCP AMM-1 through PG&E SJVHCP AMM-11 are consistent with the measures in the SJVHCP. SJVHCP is administered by PG&E to provide suitable coverage levels for all covered species throughout its term. Therefore, there would be no impact.

LEU Potential Impact Discussion

The LEU portion of the project is located within the boundaries of the SJMSCP. Although the project is a permitted activity under the SJMSCP, based on the project design, biological resources, and BMPs, the project will avoid take of special-status species covered under the SJMSCP and, therefore, coverage under the SJMSCP is not expected to be obtained. Therefore, there would be no impact.

5.4.4.4 Additional Impact Question

Would the project create a substantial collision or electrocution risk for birds or bats? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

During construction within the PG&E portion of the project, there is the potential for vehicle and equipment collisions with wildlife; however, PG&E would restrict vehicles and equipment use to designated work areas and approved access roads and would enforce speed limits for vehicles and equipment on the ROW and access roads (PG&E SJVHCP AMM-4). There also is potential for avian interactions with PG&E power lines and structures, including collisions and electrocutions. Species of birds reported to be susceptible to collisions generally have a large body size, long wingspan, heavy body, and poor maneuverability. Collisions and electrocutions are known to occur more during spring and autumn migrations among medium- and large-sized birds (APLIC 2012). PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards.

As presented in APM BIO-9 and APM BIO-10, conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the project will be designed to be avian-safe, as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012). Through

project design, potential impacts would be less than significant, and potential impacts would be further minimized with implementation of these AMMs and APMs.

LEU Potential Impact Discussion

During construction within the LEU portion of the project, there is the potential for vehicle and equipment collisions with wildlife; however, LEU would restrict vehicles and equipment use to designated work areas and approved access roads and would enforce speed limits for vehicles and equipment on the ROW and access roads. There also is potential for avian interactions with LEU transmission and power lines and structures, including collisions and electrocutions. Species of birds reported to be susceptible to collisions generally have a large body size, long wingspan, heavy body, and poor maneuverability. Collisions and electrocutions are known to occur more during spring and autumn migrations among medium- and large-sized birds (APLIC 2012). LEU would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards.

As presented in BMP BIO-9 and BMP BIO-10, conductors would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and substation facilities for the project will be designed to be avian-safe, as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012). Through project design, potential impacts would be less than significant, and potential impacts would be further minimized with implementation of these BMPs.

5.5 Cultural Resources

This section describes existing conditions and potential impacts on cultural resources as a result of construction, operation, and maintenance of the project. It presents the methods and results of cultural resources studies of the project area. The analysis concludes that the proposed project would have a less-than-significant impact on cultural resources. Incorporation of the APMs and BMPs described in Section 3.5.4.2 will further minimize potential less-than-significant impacts on cultural resources. The project's potential effects on cultural resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.5-1 and discussed in more detail in Section 5.5.4. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The following summary concerning cultural resources is derived from the Architectural Identification and Evaluation Report (Refer to Appendix D1) and the Archaeological Resources Survey Report and Addendum (Refer to Appendix D2 and D3) (Far Western 2021; Jacobs 2022; Far Western 2023). Appendix D2 and Appendix D3 contain confidential material and have been removed in their entirety. The reports will be filed via archival grade DVDs with the CPUC Docket Office. Refer to Appendix D4 for project correspondence with NAHC and Native American tribes.

5.5.1 Methodology and Environmental Setting

The Area of Potential Impacts (API) is situated in the northern San Joaquin Valley, both within and approximately 0.25 mile west of the City of Lodi and approximately 2.5 miles south of Lockeford in San Joaquin County. State Route (SR) 99 is located to the west of the API and SR 88 intersects the center of the API. The Mokelumne River is located approximately 1.5 miles north of the API at its closest point. Historically, Bear and Paddy creeks intersected the center of the API. The area is currently used for agricultural purposes, and an extensive system of canals and levees was built to transport and control irrigation water.

The archaeological API is defined as all proposed locations of ground disturbance, aboveground usage areas along the PG&E transmission line, and access roads proposed as part of the project. As the location-specific ground disturbance, aboveground usage areas, and depths of excavation have not been defined for this project yet, the archaeological API includes a 500-foot buffer on the PG&E transmission line from the centerline, a 200-foot buffer around pull sites and potential staging areas, and a 100-foot buffer corridor centered on the access roads to account for any potential areas of ground disturbance associated with the project. The archaeological API covers approximately 878.21 acres. The depth of ground disturbance is not expected to exceed approximately 30 feet for the majority of the project. Up to approximately four grounding wells are expected to be installed at depths of approximately 100 feet within PG&E Thurman Switching Station. The exact structure type, configuration, and dimensions will be determined by CPUC or City of Lodi requirements, final engineering, and other factors and are likely to change.

The architectural API encompasses 3,662 acres. It includes the maximum project footprint and all areas related to the project's construction, implementation, and operation, including areas anticipated to be used as access roads, staging areas, and laydown areas. In addition, the architectural API accounts for potential visual, atmospheric, and audible effects. The architectural API includes a 500-foot radius past the project footprint in rural areas and one parcel past the project footprint in suburban and industrial areas when project improvements include the new transmission line or switching station or substation improvements because of the highly visible nature of these features. The vertical extent of the architectural API will not exceed 155 feet above the existing ground surface for the new transmission line poles and 30 feet above the existing ground surface for the switching station and substation improvements. The removal of the top portion of the PG&E Industrial Tap Line outside of the City of Lodi north to its termination at PG&E Lodi-Lockeford No. 2 Line is excluded from the architectural API because there would not be a visual impact from this activity. The height of the existing poles will be shortened to accommodate the removal of the 60 kV facilities at the top of the line.

This cultural resources study included the following tasks: archival research; records search and PG&E Confidential Cultural Resource Database (CCRD) search; Native American outreach, Sacred Lands File search; surface and buried site sensitivity assessment; and intensive pedestrian survey.

The archival research and records search consulted PG&E's CCRD, the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), California Inventory of Historic Resources, California Points of Historic Interest, California Historical Landmarks, California Department of Transportation Bridge Inventory, and Historic Properties Directory (NRHP 2020; OHP 2020a, 2020b). Additionally, historical maps and photographs were reviewed – in particular, USGS repository; David Rumsey Map Collection; Proquest Sanborn Fire Insurance Maps Collection; National Environmental Title Research; and the University of California, Berkeley, Earth Sciences and Map Library historical topographic map collections. The records search included a 0.25-mile buffer around the archaeological API or the architectural API.

Additional background research to identify architectural resources within the architectural API and to develop a historic context included review of primary and secondary sources available at repositories and online, such as maps, aerial images, regional histories, and historic newspapers. Statewide historic contexts pertinent to the architectural API also were reviewed. These sources included the following list:

- Water Conveyance Systems in California, Historic Context Development and Evaluation Procedures (California Department of Transportation [Caltrans] 2000)
- A Historical Context and Archaeological Research Design for Agricultural Properties in California (Caltrans 2007)
- General Guidelines for Identifying and Evaluating Historic Landscapes (Caltrans 1999)
- A Model for Identifying and Evaluating the Historic Significance of Post–World War II Housing (Transportation Research Board 2012)
- San Joaquin County libraries
- Lodi Historical Society
- San Joaquin County Historical Museum
- San Joaquin Delta College Library Archives and Special Collections
- National Park Service
- Ancestry.com
- ChroniclingAmerica.loc.gov (Library of Congress historic newspaper database)
- General Land Office land records
- National Archives
- Newspapers.com
- NewspaperArchive.com
- National Register Focus Database
- ParcelQuest
- USGS topographic maps
- U.S. Census Records

5.5.1.1 Cultural Resources Summary

Cultural resources are summarized by precontact, ethnographic context, and historical research, including architectural resources or built environment.

Precontact

There is limited evidence of late Pleistocene-era occupation of the northern San Joaquin Valley. This comes primarily in the form of artifact types associated with that period – specifically, eccentric crescents and Clovis points. These finds, however, generally occur in isolated contexts that provide little information regarding the lifeways of these late Pleistocene peoples. An exception is the Witt site (KIN-32) on the southwestern shore of Tulare Lake at the far southern end of the San Joaquin Valley. This locality has produced the largest collection of basally thinned concave-base points in California, with as many as 200 specimens reported (Dillon 2002; Hopkins 1991:34). Many of the ancient concave-base points at Tulare Lake are quite small, however, and are unlike classic Clovis points found elsewhere in North America (Hopkins 1991; Rondeau and Hopkins 2008).

The Lower Archaic Period (11500-7000 calendar years before the present [cal BP]) is poorly represented in the Central Valley, with few well-preserved archaeological deposits dating to this period. Exclusive use of handstones and milling slabs along with a number of other cobble-based pounding, chopping, and scraping tools are characteristic of assemblages from this time period. Lower Archaic assemblages from central California often are found to contain large broad-stemmed projectile or spear points. Settlement from this time appears to be a mobile, yet seasonally structured, settlement system with frequent re-use of encampments.

The Middle Archaic (7000-2500 cal BP) can be characterized by increasing sedentism and artifact diversity, including the introduction or mortars and pestles in the Valley lowlands by 5000 cal BP. There is also evidence for increasing trade, which included exotic items such as obsidian, shell beads and ornaments, and potentially other perishable items.

The Upper Archaic (2500-930 cal BP) is much better understood than the preceding periods because of a more extensive archaeological record and better temporal resolution. Cultural diversity first apparent in the Middle Archaic becomes much more pronounced in the Upper Archaic, as evidenced by a complex mosaic of distinct socio-political entities marked by contrasting burial postures, artifact styles, and other material culture elements (Bennyhoff and Fredrickson 1994; Rosenthal 1996). Throughout Central California, the Upper Archaic witnessed the development and proliferation of many specialized technologies, including new types of bone tools such as harpoons, shaft wrenches, and awls. Widespread exchange of obsidian and shell ornaments continues through this period.

The Emergent Period (930-150 cal BP) is composed of two phases, the latter of which represents the onset of cultural traditions most resembling those encountered by Europeans at contact. This period saw the introduction of the Stockton serrated arrow point as well as highly decorative items, including big-head effigy ornaments, collared stone pipes, ear spools, and incised bone whistles. Fishing is a significant component of the Native economy at this time as evidenced by the prevalence of fishing equipment at sites as well as the establishment of large, mound villages every few miles along the San Joaquin River and major tributaries. Mortars and pestles are used almost exclusively during this period.

Ethnographic Context

Historically, the Central Valley was home to no fewer than seven Native California ethnic groups, all related to a single linguistic superfamily—Penutian. It has been estimated that slightly more than 100,000 people lived in the Central Valley when Europeans first ventured into the basin about AD 1772 (Cook 1955, 1976; Moratto 1984:171). If this projection is correct, the Valley alone was home to almost one third of the entire state's estimated Native population (Cook 1955, 1976, 1978).

At the time of European contact, almost the entire San Joaquin Valley, including the current API, was held by the Yokuts; only the region immediately east and south of the delta was outside Yokuts territory, controlled instead by the Plains Miwok. At least 50 separate Yokuts groups lived in the San Joaquin Valley and adjacent Sierra Nevada foothills, each having a distinct name, dialect, and territory (Latta 1949). As Moratto (1984:173) points out, the Yokuts may have been the largest ethnic group in California with an estimated precontact population approaching 41,000 people (Cook 1955). According to Milliken (2006),

the precontact archaeological sites east of the archaeological API fall within the territory of the *Coybos*, a Northern Valley Yokuts group who lived along the San Joaquin River near the modern town of Lathrop. Milliken estimates a postcontact population density for the *Coybos* of almost five persons per square mile, among the highest population in the northern part of the Valley.

Like elsewhere in western California, the Yokuts were organized into small, independent political groups, referred to as tribelets. Houses typically were simple frame structures covered by tule mats. In the south, large communal houses were built in this manner, providing shelter to as many as 10 families; however, single-family dwellings appear to have been the norm among the Northern Valley groups (Wallace 1978). The Yokuts were hunter-gatherers, with fishing playing an important part in their diet. Other important dietary resources include waterfowl, deer, elk, pronghorns, acorns and other nut crops, as well as small seeds, bulbs, roots, and greens.

As is the case throughout California, the traditional lifeways of the Yokuts were radically disrupted by missionization. In the San Joaquin Valley, this process began as early as 1776 with the expedition of Lieutenant-Colonel Juan Bautista de Anza. As recorded in baptismal records, the *Coybos* moved to Mission San Jose between 1809 and 1813 (Eidsness and Milliken 2004).

The modern Northern Valley Yokut tribe is active in advocating for their cultural resources and tribal heritage. They frequently participate in archaeological and cultural resources reviews, surveys, and important collaborative efforts to document Native American resources and remain an important part of California tribal history and modern community.

Historic-Era Period (Adapted from DeBaker et al. 2019)

The archaeological API is situated between Lodi and Lockeford, two agricultural communities located in San Joaquin County, California. Lodi, originally named Mokelumne, was founded in 1869 when the Central Pacific Railroad (CPRR) chose the location for a station (Anon 1890:190). In 1906, Lodi had six fruit packing sheds and two lumber mills and the agricultural area surrounding the town was known for growing wine grapes (Martin 1904:9–11). Lodi was located on a railroad line between Stockton and Sacramento that connected the town to the rest of the state.

Lockeford is an unincorporated community built on the ranch of Dr. D. J. Locke and was named Lockeford because it was located near a ford on the Mokelumne River. Dr. Locke first came to the area in 1850, and Lockeford opened its first post office in 1861 (Anon 1890:197). Lockeford was situated on a road to the mines in Amador County (Tinkham and Spooner 1880:377).

The largest city close to Lodi and Lockeford is Stockton. Stockton was founded in 1849 during the California Gold Rush, and the town grew from a small settlement on the edge of the San Joaquin River in the mid-nineteenth century to one of the Central Valley's largest cities and an important transportation hub for the surrounding Delta region by the mid- and late twentieth century. The archaeological API is located approximately 16.8 miles northeast of Stockton and formed part of the larger agricultural landscape that developed in conjunction with the changes in industry and transportation in the city of Stockton. Stockton's growth was spurred by the city's burgeoning populations of immigrants and ethnic minorities, industrial development along the Stockton Channel, and transportation corridors, including the deep-water channel from Stockton to the San Francisco Bay, construction of three transcontinental railroads through the city, and ultimately the development of two major highways connecting the city to other urban areas throughout the state.

Because the archaeological API is near the transportation hub of Stockton, important research themes for the historic period include Industrial Development, Railroads, and Roads and Highways. This is evidenced by the built environment resources within or near the API, including segments of the Southern Pacific Railroad (SPRR) (P-39-000002) and the Central California Traction (CCT) Railroad (P-39-004457) that were constructed to move people and goods to and from Stockton and the rest of California.

Architectural Resources

In California, the historic period generally is divided into three periods: the Spanish Period (1769 to 1834), the Mexican Period (1821 to 1848), and the American Period (1848 to the present).

Spanish and Mexican Periods (1769 to 1848)

The Spanish Period spans 1769 to 1821, beginning with the founding of the El Presidio Real de San Diego and the Mission San Diego de Alcala. As early as 1776, the first formal European expedition, led by Lieutenant-Colonel Juan Bautista de Anza, entered San Joaquin Valley (Schenck 1926). Although the Spanish established a vast network of missions along the California coast during the Spanish Period, none of the missions were sited inland within San Joaquin County. A review of Spanish land grant information did not find any information regarding land grants within present-day San Joaquin County that might have relevance to the API's history (State Lands Commission 1982).

Mexico became independent of Spain in 1821, effectively ending the Spanish Period in California. Former Spanish lands then were opened for grants by the Mexican government to citizens who would colonize the area and use the land (Lech 2004). A review of Mexican land grants documented six land grants within San Joaquin County during the Mexican Period; however, none of these ranchos extended into the architectural API (State Lands Commission 1982).

American Period (1848 to the Present)

Following the signing of the Treaty of Guadalupe Hidalgo in 1848, the U.S. took possession of what is now California. The discovery of gold in California in 1848 led to the start of the California Gold Rush the following year, bringing many speculators from the eastern U.S. and European countries to California. In 1850, California was admitted into the U.S. as the 31st state, primarily because of the population increase created by the Gold Rush.

San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the architectural API environs remained sparsely populated during this time. Lodi later was established on the west end of the architectural API in 1869 along the newly constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the architectural API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Historic themes specific to the architectural API include agriculture; irrigation, flood control, and water conveyance; transportation; and power infrastructure. These themes are discussed in greater detail in the following sections.

Agriculture

The earliest maps of the architectural API date from 1856 and 1857 (General Land Office 1855, 1865). They show some roads extending through the area (discussed further in Section 3.2.3), but that the architectural API was otherwise largely undeveloped. Lodi was created as a new railroad town at the west end of the architectural API in 1869, and by 1890 grew to a population of approximately 1,200 residents (Anon 1890). Around this time, a local history described that, "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (Anon 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the architectural API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007).

During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area

included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi featured six fruit packing sheds by 1906. Agricultural products grown in the architectural API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the architectural API to this day, reflecting the importance of the local agricultural industry (Martin 1904; Anon 1890).

Irrigation, Flood Control, and Water Conveyance

Dry grain farming, the principal industry in San Joaquin County during the second half of the nineteenth century, required little in the way of irrigation. However, crop diversification occurred during the twentieth century that required the construction of more irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the architectural API environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; USGS 2022). This includes the Bear and Paddy creeks, which intersect the center of the API. A 1908 topographic quadrangle, the earliest available for the area, shows their meandering courses extending through the architectural API immediately east of present-day SR 88. This also is reflected in subsequent quadrangles and aerials through 1961. By 1967, however, an aerial shows that all three creeks had been channelized to follow their current, straighter paths. According to a 1977 report by the U.S. Army Corps of Engineers, channelization of Bear Creek in San Joaquin County was completed between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway. The project was intended to protect agricultural land, suburban areas, and transportation corridors from the devastating effects of floods (U.S. Army Corps of Engineers 1977). Paddy Creek likely was channelized during the same period for flood protection purposes.

The entire architectural API falls within the North San Joaquin Water Conservation District (NSJWCD), which was formed in 1948 to provide groundwater management (NSJWCD 2022). It represents one of the water storage and conservation districts created in California after the late 1920s in response to the "increased demand for storage and coordination of interests on larger streams" (JRP Historical Consulting and Caltrans 2000:15). The NSJWCD currently encompasses approximately 150,000 acres east of Lodi on both sides of the Mokelumne River and includes features such as pump stations, recharge sites, and reservoirs for water storage (all outside the API). A 2020 map of the district identifies that the NSJWCD South Pipeline, which delivers water from Mokelumne River to the north into Pixley Slough and Bear Creek to the south, intersects the architectural API approximately 0.5 mile east of North Alpine Road (NSJWCD 2020). The pipeline also is used during irrigation season to convey water to farms (Greater San Joaquin County Regional Water Coordinating Committee 2020). The pipeline's north-south alignment through the architectural API first appears between 1961 and 1968 topographic quadrangles, where it is labeled an aqueduct (NETROnline 2022; USGS 2022).

Another aqueduct intersects the architectural API: the Mokelumne Aqueduct, which extends northeast-southwest through the extreme east end of the architectural API. The resource runs nearly 100 miles in total and is owned and operated by the East Bay Municipal Utility District. The first segment of the line was completed in 1920 to provide water to the rapidly growing East Bay area. Additional segments were added as the twentieth century progressed (East Bay Municipal Utility District 2022). The aqueduct is first depicted through the architectural API between 1942 and 1947 topographical quadrangles (USGS 2022).

Transportation

Maps of the architectural API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the architectural API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the architectural API was sparsely developed during this time. Although the architectural API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at

the west end of the architectural API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the architectural API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the architectural API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward toward Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the architectural API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the architectural API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCT Railroad, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCT Railroad line currently is owned by UPRR and BNSF Railway (JRP Historical Consulting Services 2003).

Power Infrastructure

Power infrastructure within the architectural API consists of PG&E Brighton-Bellota 230 kV Transmission Line, PG&E Rio Oso-Lockeford 230 kV Transmission Line, LEU Industrial Substation, and PG&E Lockeford Substation, as well as the following 60 kV power lines associated with the substations: PG&E Industrial Tap, PG&E Lockeford-Industrial, PG&E Lodi-Industrial, PG&E Lockeford 1, PG&E Sutter Home Switching Station-Lockeford-Lodi, PG&E Lockeford-Lodi No. 2, and PG&E Lockeford-Lodi No. 3.

During the first half of the twentieth century, California experienced immense growth, which led to development of a complex utility network. Early hydroelectric and transmissions systems supplied power to agricultural valleys and distant cities along the coast. Long-distance electric power lines were developed across California in the first decades of the twentieth century as electricity demands increased (Walker 2017).

PG&E, which formed in 1905 when multiple gas and electric companies in the Bay Area consolidated, emerged as an early leader in electrical systems development. By the end of the 1920s, PG&E expanded its reach by purchasing dozens of smaller geographically focused utilities, such as San Joaquin Light and Power Company (Walker 2017). As such, PG&E enjoyed monopoly status during the Great Depression and entering the post-war period, which brought rapid growth to the valley communities in the region. The company projected that the area load demand would double in the decade between 1945 and 1955 (Walker 2017). To address this growing demand for energy at the midcentury, PG&E announced a $350 million construction program to expand electricity and natural gas services in northern and central California (Contra Costa Gazette 1947).

Review of historic aerials and maps shows the development of power infrastructure within and around the architectural API during this period (NETROnline 2022; USGS 2022). PG&E Brighton-Bellota 230 kV Transmission Line represents the first part of this construction. Its northwest-southeast alignment extending through the extreme east end of the architectural API first appears in a 1939 topographical

quadrangle. Nearly a decade later, PG&E Lockeford Substation (located along East Kettleman Lane to the east of SR 88) was put in service in December 1948 (Anon 1949). PG&E Rio Oso-Lockeford 230 kV Transmission Line, which extends from PG&E Lockeford Substation to the existing alignment of PG&E Brighton-Bellota 230 kV Transmission Line to the east, was built later, first appearing on topographic quadrangles between 1961 and 1968 (NETROnline 2022; USGS 2022). LEU Industrial Substation southeast of the intersection of South Cluff and East Lodi avenues in Lodi dates from sometime between 1984 and 1993 based on aerials (NETROnline 2022). PG&E Industrial Tap, PG&E Lockeford-Industrial, and PG&E Lodi-Industrial 60 kV power lines reaching LEU Industrial Substation were erected after its construction. The remaining PG&E 60 kV distribution lines within the architectural API (PG&E Lockeford 1, PG&E Sutter Home Switching Station-Lockeford-Lodi, PG&E Lockeford-Lodi No. 2, and PG&E Lockeford-Lodi No. 3) are associated with PG&E Lockeford Substation and were built sometime between 1993 and 2002 based on aerials (NETROnline 2022).

5.5.1.2 Record Search Results

PG&E's CCRD was reviewed, which includes all the Central California Information Center's (CCaIC) current files (subscription updated October 30, 2018; CCaIC File No: 10889 Five Counties). The records search included a 0.25-mile buffer radius on the archaeological API and the same buffer on the architectural API. The records search resulted in the identification of 23 previously conducted cultural resources studies within 0.25 mile of the archaeological API, 20 of which overlap the archaeological API (Table 5.5-1). The intersecting studies are primarily archaeological surveys that occurred between 1971 and 2016; however, a majority of the archaeological API was not previously surveyed by these efforts.

The results of the architectural API records search indicated that one architectural resource investigation has been conducted previously within the 0.25-mile-radius study area (Report Number SJ-04506), and that it covered less than 1% of the architectural API. Additionally, the records search identified three previously recorded architectural resources within the 0.25-mile-radius study area: California Department of Transportation (Caltrans) Bridge Number 29C-341, which carries East Harney Lane over Paddy Creek, as well as two railroads that intersect the architectural API. The bridge is located immediately south of the architectural API and has been evaluated as not eligible for listing in the NRHP, CRHR, or for local designation (assigned Caltrans Status Code 5; Office of Historic Preservation Status Code 6Z). Refer to Table 5.5-2.

The records search resulted in the identification of seven previously recorded cultural resources within the records search area (Table 5.5-2). Five of the resources intersect the API, including the two historic-era railroad segments (P-39-004457 and P-39-000002), a row of oak trees (P-39-004471), a segment of SR 12 (P-39-004901), and four telegraph poles (P-39-004279). The two historic-era railroad segments, single home foundation, row of oak trees, and telegraph poles (P-39-004457, -000002, -004594, -004471, and -004279) have not been evaluated for their potential eligibility for listing in the CRHR or the NRHP. Far Western documented P-39-000002 as no longer extant in the 2021 investigation (Scott and Higgins 2021). The SPRR alignment (P-39-000002) is incorrectly mapped in some GIS datasets and, based on review of historic topographic quadrangles dating back to 1909, the alignment did not extend through either API. Only one of these resources (railroad alignment P-39-004457) intersects the northwestern extent of the architectural API.

The CCT Railroad segments have not been evaluated for listing on the NRHP or CRHR. In 2003, JRP Historical Consulting Services recorded a 100-foot-long segment of the CCT Railroad at the railroad's intersection with SR 12, approximately 250 feet north of the architectural API. The record noted that the rails, ties, and crossing guards all appeared to be nonoriginal and recently replaced. Three additional segments of the CCT Railroad have since been recorded in Stockton (outside the architectural API and 0.25-mile-radius study area). The first, in 2008 (recorded by Martinez), recommended the segment as not eligible for listing in the NRHP and CRHR based on a lack of integrity. The remaining two segments were recorded in 2010 (PARUS Consulting, Inc) and 2011 (Pappas and Tippet) and are unevaluated.

Table 5.5-1. Previous Cultural Resource Studies Conducted within 0.25 Mile of the API

Report No./ Map Label	Report Year	Intersects API?	Author(s)	Report Title	Report Type
CCIC 7597L	2011	Yes	Greathouse, E.A.	Lockeford #1 Reconductoring	Records/ literature search
Grant 2014	2014	Yes	Grant, Joanne	Cultural Resources Constraints Report, Lockeford-Industrial 60 kV, PM 31032412	Archaeological survey
Hammerle 2015	2015	Yes	Hammerle, Esme	Cultural Resources Constraints Report for Lockeford 2101 Blitz (PM 31013252)	Records/ literature search
Hammerle 2016	2016	Yes	Hammerle, Esme	Cultural Resources Constraints Report for Lockeford Substation Property, Lodi, San Joaquin County (PM 74001577)	Archaeological survey
SJ-01543/ CCaIC (San Joaquin) _SJ-01543	1971	Yes	Ritter, E.	Archaeological Reconnaissance of the Folsom South Canal, Central Valley, California	Archaeological survey
SJ-02759/ CCaIC (San Joaquin) _SJ-02759	1995	Yes	Hatoff, Brian, Barb Voss, Sharon Waechter, Stephen Wee	Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project, Final	Archaeological survey
SJ-02824/ SJ-2824	1996	Yes	Busby, C., S. Guedon, and M. Tannam	Cultural Resources Assessment, San Joaquin Area Flood Control Restoration Plan, San Joaquin County, California (Oct. 1995) (and) Cultural Resources Assessment Addendum San Joaquin Area Flood Control Restoration Plan	Regional overview
SJ-03379	1994	Yes	-	Historic Report (49 CFR 1105.8) Southern Pacific Transportation Company Proposed Abandonment in San Joaquin and Calaveras Counties, California ICC Docket No. AB-12 (Sub-No 155X)	Archaeological survey
SJ-03642/ CCaIC (San Joaquin) _SJ-03642	1999	Yes	Wulf, E., and K. Wooten	Archaeological Survey Report for the Proposed Road Rehabilitation, Widening, and Replacement of Four Bridges on California State Highway 88 Between Waterloo and State Highway 12 in San Joaquin County, California, 10-SJ-88 KP 8.2/19.3 (PM 5.1/12.3), EA10-2	Archaeological survey
SJ-04506/ CCaIC (San Joaquin) _SJ-04506	2001	Yes[a]	Egherman, Rachael	Lodi Energy Center Cultural Resources (Archaeological and Historic Built Environment Resources) Technical Report.	Archaeological survey

Report No./ Map Label	Report Year	Intersects API?	Author(s)	Report Title	Report Type
SJ-04391	2001	Yes	Delacorte, Michael G.	Phase II Test Excavations Prehistoric of Three Sites (CA-SJO-93, CA-SJO-264, CA-SJO-265) Along State Route 88, San Joaquin County, California.	Excavation
SJ-05342	1975	Yes	Wagers, J. C.	The San Joaquin and Sierra Nevada Railroad	Journal article
SJ-05498	2004	No	Leach-Palm, L., P. Mikkelsen, J. King, J. Hatch, and B. Larson	Cultural Resource Inventory of Caltrans District 10 Rural Conventional Highways; Volume l: Summary of Methods and Findings	Archaeological survey and inventory
SJ-05501	2004	No	Rosenthal, J. S.	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume lll: Geoarchaeological Study.	Geoarchaeological Analysis
SJ-05503	2004	Yes	J. Meyer	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume II F: San Joaquin County.	Archaeological survey and inventory
SJ-06330	2007	Yes	Jones, E. T., T. Douglass, and B. Matzen	A Cultural and Paleontological Resources Study for the Archer Daniels Midland Sweetener Distribution Center Project. Lodi, San Joaquin County, California.	Archaeological survey and inventory
SJ-06507/ CCalC (San Joaquin) _SJ-06507	2007	Yes	URS Corporation	Cultural Resources Report for Geotechnical Evaluations of the San Joaquin Area Flood Control Agency Project Levees	Archaeological survey
SJ-06723/ SJ-6723	2008	Yes	URS Corporation	Cultural Resources Survey Report for the Urban Levee Project	Archaeological survey
SJ-06724/ SJ-6724	2008	Yes	URS Corporation	Cultural Resources Baseline Literature Review for the Urban Levees Project	Regional overview
SJ-07226	2007	Yes	Gross, C.	Lodi/Delta Community College Project DEIR, San Joaquin Delta Community College District (EXCERPT): Section 4.16: Cultural Resources.	Archaeological survey and inventory
S-35094	2008	Yes	URS Corporation	Technical Report Final: Cultural Resources Survey Report for the Urban Levee Project	Archaeological survey
Tremaine 2012	2012	Yes	Tremaine, Kim	Lockeford No. 1 60kV Reconductoring Project, San Joaquin County Archaeological Survey Report	Archaeological survey
31013251	2015	No	Fies, Robin	Cultural Resources Constraints Report; Lodi 1102 Blitz (Circuit: Lodi 1102 Bank 2), San Joaquin County, PM 31013251	Archaeological survey

[a] Intersects both archaeological API and architectural API.

Bridge #29C-341 (documented by Caltrans), was determined to not be eligible for listing on the NRHP, CRHR or for local designation (Caltrans 2019). Additionally, Bridge #29C-341 is not within the architectural API. Table 5.5-2 summarizes the cultural resource information found in the record search.

Table 5.5-2. Previously Recorded Resources Identified within 0.25 Mile of the API

Primary No. (P-39-)	Trinomial (CA-SJO-)	Resource Age	Site Type	Resource Description	Eligibility[a]	Intersects API?
000002	250H	Historic	Built environment	Southern Pacific Railroad, operation began in 1869, which connected the San Joaquin Valley with Sacramento, the transcontinental main line over the Sierra Nevada, and San Francisco Bay.	7R	No
004457	294H	Historic	Built environment	Segment of the Central California Traction Railroad, built in 1907 to 1910 between Sacramento and Stockton.	7R	Yes
004279	-	Historic	Archaeological	Four standing flat-top telegraph poles	7R	Yes
004471	-	Historic	Built environment	Row of oak trees	7R	Yes
004594	309H	Historic	Archaeological	A single home foundation c. 1935	7R	No
004901	324H	Historic	Built environment	Segment of State Route 12	6Z	Yes
Bridge #29C-341	-	Historic	Built environment	Caltrans Bridge Resource, Harney Lane near Lodi	6Z	No

Note:

[a] Eligibility codes: 6Z – Not eligible for listing on the NRHP, the CRHR, or local designation through survey evaluation; 7R – Not evaluated for the NRHP or CRHR.

A search of the NRHP, the CRHR, the California Historic Landmarks, and California Points of Historical Interest did not indicate that there are additional cultural resources listed within the archaeological or architectural API or within 0.25 mile (NRHP 2020; OHP 2020a, 2020b).

Historic-Era Sensitivity

Historic-era development within the project vicinity steadily built up from its origins in the mid- to late-nineteenth century to the mid-twentieth century, at which point the spread of development switched from expansion to infill of residential units while still maintaining a sparse rural character. Throughout this period, the project vicinity has been characterized by small homestead agriculture with three categories of historic-era property types: (1) domestic residences and related outbuildings and refuse deposits; (2) agricultural plots comprised of row crops, orchards, and support structures; and (3) infrastructure, especially transportation features such as roads and railroads, and water conveyance systems such as aqueducts and the canalization of natural waterways.

Many of the infrastructural resources are still extant on modern aerials, though these have likely undergone repeated episodes of maintenance and replacement. Smaller features such as refuse deposits and agricultural objects may still be extant, but because of ongoing intensive agriculture, these features likely have been impacted, disturbed, or removed within existing farm plots. Marginal areas, such as at the outskirts of residences, roads, and farm plots, have the highest likelihood for intact surficial deposits, although disturbed deposits still are possible across the API. Based on research by the PG&E Substation

Engineer, Lockeford Substation is historic in age (ca. 1948). Overall, there is a moderate potential for historic-era surface and subsurface deposits.

Potential for Encountering Historic-Era Archaeological Resources

Project activities could involve ground disturbance to a depth of up to approximately 30 feet. If ground disturbance activities occur near historic railroad alignments, there is the possibility of discovering subsurface deposits in those areas. These could include spur lines or refuse deposits. Additionally, the archaeological API is in an area that has been used for agricultural purposes continuously since the nineteenth century, so it is possible that buried refuse deposits or other archaeological material related to homesteading and agricultural activities could be discovered during excavation. Prior to modern refuse disposal systems, people in the nineteenth and early- to mid-twentieth centuries frequently deposited household refuse in ditches, creeks, or privies, fed it to livestock, or spread it over agricultural fields to enrich the soil. These activities could have resulted in the creation of archaeological deposits or isolated artifacts.

Buried Site Sensitivity

This section assesses the potential for buried precontact archaeological sites within the Northern San Joaquin 230 kV Transmission Project API. The project is located in a rural area characterized by agricultural use east of Lodi and south of Lockeford, San Joaquin County, California. SR 99 is west of the archaeological API and SR 88 intersects the center of the API. The buried potential of this area was estimated based on the age and distribution of surface deposits combined with the proximity to historic-era streams (distance to water). Many Holocene-age depositional landforms (for example, alluvial fans and floodplains) have a general "geologic potential" to contain buried sites as they were formed after the arrival and occupation of the region by precontact people (Thomas 2012).

Conversely, landforms that predate the Holocene have little or no potential to contain buried sites because there were few, if any, people yet present in the region. Previous studies have shown that known precontact sites tend to be located within 200 meters (656 feet) or less of a known stream or other water source (Rosenthal and Meyer 2004). Thus, Holocene-age terrestrial deposits located within 200 meters of a historic-era bay or stream are considered to have an elevated potential to contain buried sites.

The depth of ground disturbance is not expected to exceed approximately 30 feet for the majority of the project. Up to approximately four grounding wells are expected to be installed to approximately 100 feet in depth within PG&E Thurman Switching Station. Exact structure type, configuration, and dimensions will be determined by CPUC or City of Lodi requirements, final engineering, and other factors and are likely to change. Although new roads are not being constructed, some existing roads in the archaeological API may be bladed; however, it is highly unlikely that any potentially buried archaeological resources may be impacted by the project-related actions throughout the majority of the project locations. Approximately 90% of the archaeological API has a "Lowest" or "Low" sensitivity rating (Far Western 2021).

There is a "High" potential for buried precontact resources in the central portion of the archaeological API, near SR 88 and Bear Creek, based on the close proximity to freshwater and the relatively recent age of the sediments. Therefore, this location has a reasonable possibility that previously unidentified archaeological remains could be encountered during blading of the existing road and excavation of tower footings. However, aside from this small portion of the archaeological API, no subsurface archaeological remains are expected because of the relatively low sensitivity in the API overall.

5.5.1.3 Native American Coordination

PG&E Senior Cultural Resource Specialist, Mike Taggart, contacted the Native American Heritage Commission (Commission) with an initial request for a search of the Sacred Lands File on November 4, 2015. The Commission's response, dated November 25, 2015, stated that no Native American cultural sites are documented within the API. The Commission also provided a list of seven Native American contacts that may have knowledge about archaeological and/tribal cultural resources in

the area. Mike Taggart sent initial outreach letters to the contacts listed by the Commission in May and November of 2016. These letters included information about the proposed project and public open houses to learn more about the project and provide feedback about the potential transmission line corridors. Wilton Rancheria Tribal Resources Coordinator, Ed Silva, responded on December 6, 2016, stating that he could not make any of the open house dates but he did request a meeting.

This meeting to discuss the project occurred on January 12, 2017, and included two contacts from the Wilson Rancheria, Ed Silva and Cultural Resource Officer, Antonio Ruiz; PG&E's Mike Taggart and Bob Donovan; and Colleen Taylor from CH2M Hill (now Jacobs). The meeting included review of project information discussed at the open houses that occurred in 2016. The tribal representatives were encouraged to identify potential resources to support avoidance or minimization of potential impacts during the project design/development and analysis phase that year. The project then was put on hold for a couple years and consultation also was paused temporarily.

On April 13, 2021, Far Western Anthropological Research Group, on behalf of PG&E, contacted the Commission with a request for a current search of the Sacred Lands File. The Commission's response, dated May 10, 2021, stated that no Native American cultural sites are documented within the API. The Commission also provided a list of 18 Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area. On behalf of PG&E's Cultural Resources Specialist Starla Lane, Far Western sent letters with associated project maps on June 17, 2021, to the contacts listed by the Commission, to inform them of the proposed project and request input regarding cultural resources.

Far Western sent a second letter with the Addendum API project maps to the original 18 Native American contacts on February 8, 2023. Far Western also sent a second request for a search of the Sacred Lands File on January 26, 2023. The Commission's response, dated March 1, 2023, stated that no Native American cultural sites are documented within the Addendum API. The Commission also provided a list of 15 Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area, all of which were originally contacted. As of July 27, 2023, three tribes have contacted PG&E's Starla Lane with requests to consult on this project. The Buena Vista Rancheria of Me-Wuk Indians requests formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources. They also requested a copy of the cultural resources assessment. The Confederated Villages of Lisjan and United Auburn Indian Community of the Auburn Rancheria both had representatives respond on March 7, 2023, requesting additional information on the cultural assessment findings. PG&E's Starla Lane responded on July 27, 2023, with access to the cultural resources reports, results of the NAHC file search, and GIS shapefiles of the project.

Table 5.5-3 summarizes the entirety of correspondence timeline from the 2016 effort until the present. For copies of correspondence, refer to Appendix D4.

Table 5.5-3. Summary of the Native American Outreach Efforts.

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
-	Randy Yonemura	May 25, 2016 November 14, 2016 May 26, 2021	No response
Buena Vista Rancheria of Me-Wuk Indians	Rhonda Morningstar Pope	May 25, 2016 November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	A response was received via email on July 12, 2021, from Ivan Senock to PG&E cultural resources specialist, Starla Lane. The response said, "After review of the notification and examination of the property using the Google Earth mapping application, it is determined BVR has no objection to commencement of the project. If Tribal Cultural

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
			Resources should be inadvertently encountered, during the project, Buena Vista Rancheria requests additional notification so steps may be taken to protect and preserve them." A response was received on March 17, 2023, from Ivan Senock. The tribe requests formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources. They also requested a copy of the cultural resources assessment. PG&E responded on July 27, 2023, with access to the cultural resources reports.
California Valley Miwok Tribe	-	May 25, 2016 November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	No response
California Valley Miwok Tribe AKA Sheep Rancheria of Me-Wuk Indians of CA	-	February 8, 2023	No response.
Chicken Ranch Rancheria of Me-Wuk Indians	Lloyd Mathiesen	June 17, 2021 February 8, 2023	No response
Guidiville Indian Rancheria	Donald Duncan	June 17, 2021 February 8, 2023	No response
Ione Band of Miwok Indians	Crystal Martinez	May 25, 2016 November 14, 2016 May 26, 2021	No response
Ione Band of Miwok Indians	Sara Dutschke	June 17, 2021 February 8, 2023	No response
Ione Band of Miwok Indians Cultural Committee	-	May 25, 2016 November 14, 2016 May 26, 2021	No response
Muwekma Ohlone Indian Tribe of the SF Bay Area	Monica Arellano	June 17, 2021 February 8, 2023	No response
Nashville Enterprise Miwok-Maidu-Nishinam Tribe	Cosme Valdez	June 17, 2021 February 8, 2023	No response
North Valley Yokuts Tribe	Katherine Perez	June 17, 2021 February 8, 2023	No response

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
North Valley Yokuts Tribe	Timothy Perez	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Joey Garfield	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Neil Peyron	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Kerri Vera	June 17, 2021 February 8, 2023	No response
United Auburn Indian Community of the Auburn Rancheria	Gene Whitehouse	June 17, 2021 February 8, 2023	A response was received via email on July 6, 2021, from Anna Cheng to PG&E cultural resources specialist, Starla Lane, stating that the United Auburn Indian Community of the Auburn Rancheria wishes to consult on this project. The United Auburn Indian Community replied that they do not show any previously recorded CHRIS sites in the API; however, that may be due to private property not surveyed. Ms. Cheng inquired whether a cultural resources survey been conducted or is scheduled, and if one has already been conducted, they request that it is shared with them. Response received on March 7, 2023, from Anna Starkey. The tribe requested GIS shapefiles of the project area. PG&E responded on July 27, 2023, with access to the cultural resources reports and the GIS shapefiles.
Wilton Rancheria	Raymond Hitchcock	May 25, 2016 November 14, 2016 May 26, 2021	A response was received on December 6, 2016, from Wilton Rancheria tribal representative, Ed Silva, stating that they couldn't make any of the open house dates but requesting a meeting.
Wilton Rancheria	Steven Hutchason	May 25, 2016 November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	A response was received on June 25, 2021, via email from Mariah Mayberry to PG&E cultural resources specialist, Starla Lane stating that Wilton Rancheria would like to request consultation on this project. Wilton Rancheria requested any other maps of the project along with the Cultural Resources Assessment once completed. PG&E responded on July 27, 2023, with access to the cultural resources reports and the GIS shapefiles.
Wilton Rancheria	Dahlton Brown	June 17, 2021 February 8, 2023	Refer to previous response from Mariah Mayberry.
Wilton Rancheria	Jesus Tarango	June 17, 2021 February 8, 2023	Refer to previous response from Mariah Mayberry.
The Confederated Villages of Lisjan	Corrina Gould	June 17, 2021 February 8, 2023	**Response received from Corrina Gould on March 7, 2023, with a request for the NAHC results. PG&E responded on July 27, 2023, with access to the cultural resources reports and the NAHC results.**

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
			Chairperson Gould responded via email on August 2, 2023, with no further information about the project location. They asked to be notified if there are any findings during construction, and reminded the construction team to remain vigilant during construction since the project is on their ancestorial land and unanticipated discoveries are possible.

5.5.1.4 Archaeological Survey

Far Western archaeologists completed an intensive pedestrian survey of the archaeological API between May 5 and May 9, 2021. The survey was executed using transects no greater than 15 meters apart, and environmental circumstances often called for tighter transect intervals of 10 meters. Most of the survey area consisted of in-use, recently tilled agricultural fields; vineyards constituted roughly 60% of the survey area, orchards (primarily cherry) made up 20%, grazing pasture accounted for 15%, and various commercial and residential properties and associated roads accounted for an estimated 5% of the survey area. Ground visibility across the survey area averaged an estimated 70% because the vineyards had been well maintained and recently tilled. Visibility in the orchards, pastures, and developed areas was drastically lower at roughly 20% from ground-obscuring local grasses. However, despite the generally good ground visibility, all the soil within the API have been subject to routine agricultural disturbance, severely limiting the possibility of *in situ* cultural discovery. The roads also demonstrated good ground visibility and have been subjected to grading and vehicle traffic. It is not uncommon for artifacts to become unearthed during grading and road improvements during construction activities.

Far Western was not able to access five of the properties within the archaeological API. Approximately 53.91 acres of the total approximately 834 acres were unable to be surveyed. The landowners of 15510 (APN 5304018) and 15153 (APN 5126008) North Jack Tone Road denied right of entry to the survey crew. 15278 North Jack Tone Road (APN 5304027) is an operating plant nursery (strawberries and other tightly planted rows) and pedestrian survey was not feasible. The northern property boundary of 14433 Kettleman Lane (APN 5304020) is bounded by an 8-foot-tall electric fence, preventing survey access. Lastly, APN 5304041 contains a fenced solar farm, which was inaccessible to the survey crew.

Far Western archaeologists completed an intensive pedestrian survey of additional project areas near PG&E Lockeford Substation, within the City of Lodi, and along PG&E 60 kV lines north of the City of Lodi within an expanded archaeological API on November 21, 2022.

The agricultural land, orchards, private property, roadsides, and vineyards were systematically surveyed using 10 to 15 meter transects covering approximately 80% of the additional API. Paved areas and buildings in the API were not surveyed. The survey areas are completely flat, located on a valley floor that was developed into farmland, rural residences, and urban environments. DPR 523 site forms were updated for four resources and prepared for the two newly identified sites and one new isolate. These sites are described in the following sections.

Ground visibility of unpaved areas was very good, approximately 80% to 90%, with minimal limitations from vegetation, modern refuse, or terraformed land related to farming. Sparse vegetation included Valley Oak, California cockleburs, grape vines, San Joaquin tarweed, California buckwheat, grasses, and sedges. Visibility was approximately 90% in active vineyards, although the ground had been thoroughly disturbed from planting and crop maintenance and other agricultural activities.

Modern debris and piles of refuse were present and more heavily concentrated near parts of the API containing a railroad, likely related to nearby homeless encampments. The debris consisted mainly of

clothing, empty beverage and food containers, and plastic fragments. Extensive modern disturbances also are present throughout the API, most notably paved roads, sidewalks, businesses, and warehouses.

5.5.1.5 Architectural Survey

Investigators who meet the Secretary of the Interior's Professional Qualification standards in Architectural History and History, per 36 Code of Federal Regulations Part 61, oversaw the completion of an architectural field survey of the entire API between December 15 and 22, 2022. Survey methods were designed to meet local, state, and federal requirements, and follow guidance put forth in the California Office of Historic Preservation's *Instructions for Recording Historical Resources*. The survey also was consistent with the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 Federal Register 44716).

The survey was conducted from public vantage points and public rights-of-way. If surveyed resources were not visible or accessible from public areas, investigators completed supplemental research to record and evaluate the resources, such as review of current mapping software, historic maps, aerials, historic newspaper databases, city directories, and other sources.

Prior to initiating fieldwork, investigators exported parcel data for the architectural API from the San Joaquin County Assessor and ParcelQuest and uploaded it to ArcGIS Collector. This information included parcel boundaries as well as relevant information such as parcel address, assessor's parcel number, and construction year. Investigators also uploaded shapefiles showing the locations of previously recorded architectural resources within the architectural API.

During the survey, investigators used the ArcGIS Collector application loaded with the previously mentioned shapefiles to collect geotagged photographs of each property constructed prior to 1977, including any accessory resources, as well as completed pertinent notes on architectural style, form, condition, and historic integrity. Investigators also assigned estimated construction dates to properties based on field verification of San Joaquin County Assessor and ParcelQuest data, professional judgement, and historical research, including historic maps, aerials, newspaper databases, and other sources.

The extent of the architectural API also was field verified to determine if the project would be visible past the 500-foot-radius buffer surrounding the new PG&E 230 kV transmission line. In several instances, the architectural API was expanded to include the full extent of a parcel and other interrelated properties, based on existing conditions such as flat topography, limited development, and lack of other visual intrusions. Oftentimes, a building cluster would be located immediately outside the architectural API limits; however, since the building cluster was associated with properties within the architectural API, it was recorded as part of an interrelated resource, including the portion outside the architectural API. For example, residences and outbuildings were frequently outside the limits of the architectural API; however, since they were directly and historically associated with agricultural fields and orchards within the architectural API, the entirety of the property was recorded and the architectural API was expanded.

Resources older than 45 years are summarized in Section 5.5.1.6 and are in the process of being recorded on Department of Parks and Recreation (DPR) 523 series forms. No resources constructed less than 45 years ago appeared to possess exceptional significance and, therefore, were not recorded. In areas where the new PG&E transmission line is being constructed alongside an existing transmission line with structures of a similar height as the proposed features, investigators confirmed in the field that no new visual intrusions would occur to properties within the architectural API. This was completed through assessing existing viewsheds from public vantage points, historic character and setting of the area, building orientation, existing vegetation, topography, and age of existing visual intrusions. As a result, if it was determined that there would be no new visual changes from the new line, then these resources within the architectural API were not documented in the survey matrix or on DPR 523 series forms.

5.5.1.6 Cultural Resources Results Summary

The survey resulted in the identification of three new archaeological cultural resources (BD-01, BD-02, and BD-ISO-01; Table 5.5-4), and the five previously recorded archaeological cultural resources were revisited (Table 5.5-6). All of these resources, while located in the API, are outside of the proposed work areas.

- BD-01 consists of five features: two historic-era portable hydrants, one water catchment feature, an abandoned vineyard with rows of old grape vines, and a row of three old oak stumps. This resource is adjacent to a project access road within the API. The site remains unevaluated; however, since the access road has no scheduled ground disturbance, the site will be avoided.
- BD-02 consists of old agricultural and railroad equipment debris scatter. These materials are moveable objects and are not considered in situ archaeological remnants; thus, they do not have potential archaeological significance and are not potentially eligible for listing in the CRHR. Therefore, no further management recommendations are necessary.
- BD-ISO-01 is an isolated historic-era metal hitch drag.
- P-39-004279, consisting of four dilapidated flat-top telegraph poles, was relocated and determined to be in fair condition. It was found to be misplotted on CCaIC maps and new features associated with the site were observed, extending the site boundaries.
- P-39-004901, a 61-meter segment of SR 12, was relocated and appears to have been replaced with modern parts.
- P-39-000002, a 40-foot-wide railroad grade, appears to have been destroyed and is now a sidewalk.
- P-39-004471, a row of oak trees along SR 12, intersects the API, but at an area where the site record notes periodic gaps, and no historic-era trees are within the API.

Table 5.5-4. Newly Identified Archaeological Resources

Primary No. (P-39-)	Trinomial (Ca-SJO-)	Resource Age	Age	Resource Type	Eligibility[a]	Survey Results
BD-01	-	H	Historic	A historic-era vineyard with five associated features	Unevaluated	Within API; outside of work area
BD-02	-	H	Historic	Agricultural and railroad equipment scatter	Unevaluated	Within API; outside of work area
BD-ISO-1	N/A	H	Historic	A historic-era metal hitch drag	Unevaluated	Within API; outside of work area

The background research and architectural field survey identified 68 new architectural resources within the architectural API meeting the 45-year survey cutoff date that required recordation.

Overall, 68 previously unrecorded resources were identified within the architectural API meeting the 45-year survey cutoff date that required recordation within the survey results matrix and on DPR 523 series forms (in progress). Of these previously unrecorded resources, 42 are rural residential, 7 are industrial sites, 4 are water conveyance features, 5 are farm buildings on agricultural land, 6 are suburban residential, 1 is an electrical substation, 2 are 230 kV transmission lines, and 1 is a cemetery. Rural residential consisted mainly of Ranch, Minimal Traditional, Cottage, Queen Anne, and eclectic styles. Most rural residential parcels contained outbuildings, including garages, barns, shops, sheds, and carports. Industrial properties were mainly utilitarian warehouses, shops, garages, or manufacturing plants. Water conveyance features within the architectural API consisted of earthen and gravel levees and underground

pipelines. Farm buildings included sheds, shops, barns, or warehouses related to agricultural production on a parcel with no residence. Suburban residential included properties on small 0.25-acre lots within the City of Lodi. Electrical infrastructure consisted of one substation and two 230 kV transmission lines. The one cemetery is the Lodi Memorial Park and Cemetery. The date range for the properties within the architectural API breaks down as follows: 19 were built between 1900 and 1920, 11 were built between 1920 and 1940, 19 were built between 1940 and 1960, and 19 were built between 1960 and 1977.

Of the 68 previously unrecorded resources, seven were evaluated as appearing eligible for listing in the CRHR and are considered historical resources for the purposes of CEQA for this project. Two properties were found eligible under Criteria 1 (broad patterns of history) and 3 (design) and five were found to appear to be eligible under Criterion 3 (design). Table 5.5-5 summarizes the assessment of potential impacts to CRHR eligible resources.

Table 5.5-5. Assessment of Potential Impacts to CRHR Eligible Resources

Resource Identifier #	APN	Project Element Proximity	Assessment
21	049-230-060	Located approximately 500 feet southeast of structure W38 and approximately 352 feet east of centerline of preferred alternative	The subject property already has a diminished viewshed to the rear of the property from modern industrial buildings viewable from Curry Avenue. The new transmission line will not impact its integrity aspects of design, workmanship, materials, setting, and feeling. The installation of project elements at least 350 feet from the resource will not modify its historic appearance, context, visual narrative, or any character-defining features.
25	049-230-100	Located approximately 572 feet southeast of structure W37 and approximately 480 feet east of centerline of preferred alternative	The subject property already has a diminished viewshed to the rear of the property from modern industrial buildings viewable from Curry Avenue. The new transmission line will not impact its integrity aspects of design, workmanship, materials, setting, and feeling. The installation of project elements at least 480 feet from the resource will not modify its historic appearance, context, visual narrative, or any character-defining features.
30	061-132-110	Located approximately 1,150 feet northeast of structure W31 and approximately 1,100 feet from centerline of preferred alternative	The subject property already has diminished viewshed to the rear of the property from modern residences viewable from Vintage Road and E Kettleman Lane. The new transmission line will not impact its integrity aspects of design, workmanship, materials, setting, and feeling. The installation of project elements at least 1,000 feet from the resource will not modify its historic appearance, context, visual narrative, or any character-defining features, and is separated from the improvements by a large agricultural field.
32	061-133-010	Located approximately 1,100 feet northwest of structure W30 and approximately 1,100 feet from centerline of preferred alternative	The building cluster associated with this resource, consisting of a Craftsman style residence, tank house, and garage/carport, is set back more than 1,000 feet from the project improvements and already has limited or obscured visibility from a public vantage point. As a result, the project improvements will not impact its integrity aspects of design, workmanship, materials, setting, and feeling.

Resource Identifier #	APN	Project Element Proximity	Assessment
34	061-133-020	Located approximately 1,150 feet northwest of structure W30 and approximately 1,100 feet from centerline of preferred alternative	The building associated with this resource, consisting of a Craftsman style residence, is set back more than 1,000 feet from the project improvements and already has limited or obscured visibility from a public vantage point. As a result, the project improvements will not impact its integrity aspects of design, workmanship, materials, setting, and feeling.
47	063-150-460	Located approximately 800 feet southwest of structure W19 and approximately 750 feet south from the centerline of preferred alternative	The subject property already has a diminished viewshed to the north and east of the property from modern infill viewable from N Locust Tree Road. The building associated with this resource is located approximately 750 feet from the project improvements and already has limited or obscured visibility from a public vantage point. As a result, the project improvements will not impact its integrity aspects of design, workmanship, materials, setting, and feeling.
67	N/A	Located approximately 650 feet southeast of structure E1 and approximately 700 feet southeast from the centerline of preferred alignment	The property is a buried aqueduct segment that has no above-ground features within the API. The installation of Project elements 650 or more feet from the resource will not affect its integrity of location, design, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 1. The PG&E Brighton-Bellota 230 kV transmission line already intersects with the aqueduct segment. Therefore, because the setting already is characterized by electrical infrastructure, the Project elements will not diminish its integrity of setting. No physical impacts will occur to the property as part of the Project.

Two previously recorded historic-era built environment resources were mapped as intersecting the architectural API and these locations were visited during the survey (P-39-000002 and P-39-004457; Table 5.5-6). However, there is no evidence of the SPRR (P-39-000002) at its recorded location (Dolan 2002; Gross 2022) on historic USGS maps. This finding is corroborated by the survey results, which did not identify any railroad features in this location. The recorded SPRR segments included in the GIS shapefile of the resource appears to be in error.

Portions of the CCT Railroad were previously evaluated as not eligible for listing in the CRHR. The evaluation completed as part of this project found the CCT Railroad within the APIs as not appearing eligible for listing in the CRHR as an individual resource and as a potential contributor to a larger resource. The resource does not have a direct association with important events or significant patterns of development and does not illustrate a distinctive engineering achievement.

Visits to the two previously recorded historic-era built environment resources were documented on DPR 523 Series forms, site record update forms (DPR Form 523), and are briefly described as follows:

1. The segment of P-39-000002 (SJO-250H), the former SPRR, mapped as intersecting the API, is an intact, paved private drive that crosses the northbound CCT Railroad (SJO-294H). Segments of this line have railroad rails in place even though the rail line is no longer used. Apart from its intersection with SJO-294H, no railroad-related features or other archaeological material was observed. The DPR

site record for this resource was updated to reflect archaeological survey observations. Notably, the architectural survey did not identify any evidence of the previously recorded segment of the SPRR (P-39-000002) within the architectural API.

2. Far Western and Jacobs each visited a segment of P-39-004457 (SJO-294H), the CCT Railroad, which intersects both APIs between East Sargent Road and Lodi Junction. Extending north-south through the eastern half of Lodi, the railroad segment consists of a single track on a low gravel berm. The line still operates between Lodi and Stockton, including the spur at Lodi Junction that turns 90 degrees toward and then through the eastern half of Lodi. The previously recorded segment of the line nearest the architectural API is a 100-foot-long segment at the railroad's intersection with SR 12, approximately 250 feet north of the architectural API. The prior record of the segment was not evaluated for listing in the CRHR or NRHP; however, the record noted that the rails, ties, and crossing guards associated all appeared to be nonoriginal. The approximately 2.5-mile-long segment of the CCT Railroad within the architectural API was evaluated for the CRHR and also appears to feature nonoriginal rails and ties. The DPR site record for this resource was updated to reflect archaeological survey observations.

Table 5.5-6. Previously Recorded Cultural Resources Visited during Survey

Primary No. (P-39-)	Trinomial (Ca-SJO-)	Resource Age	Resource Type	Resource Description	Eligibility	Survey Results
000002[a]	250H	Historic	Built environment	Segment of Southern Pacific Railroad	Unevaluated	No railroad-related features or other archaeological material was observed at this segment location.
004457	294H	Historic	Built environment	Segment of Central California Traction Railroad	Unevaluated	Appears as previously recorded.
004471	-	Historic	Archaeological	Row of oak trees	Unevaluated	Within API; outside of work area
004901	324H	Historic	Archaeological	Segment of State Route 12	Not Eligible	Within API; outside of work area
004279	-	Historic	Archaeological	Four standing flat-top telegraph poles	Unevaluated	Within API; outside of work area; PG&E will avoid all telegraph components

Note:
[a] There is no evidence of the SPRR (P-39-000002) at its recorded location on historic USGS maps or during the field surveys. Its inclusion in the GIS shapefile of the resource appears to be in error.

5.5.2 Regulatory Setting

5.5.2.1 Federal

Compliance with federal regulations was not required by the project and no federal regulations related to cultural resources are applicable to the project. Several previously recorded resources were evaluated for the NRHP and the regulations are thus included in this section.

National Register of Historic Places

This section details Section 106 of the National Historic Preservation Act (Section 106), as defined in United States Code Title 54, Section 300101 et seq. Section 106 requires federal agencies to consider any effects of their undertakings on historic properties and affords the State Historic Preservation Officer, Native American groups, other interested parties, and the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings. Historic properties include significant

prehistoric or historic districts, sites, buildings, structures, or objects listed in or eligible for listing in the National Register of Historic Places (NRHP).

The criteria used for NRHP determinations of eligibility for this undertaking are detailed in 36 CFR 800.4 and 36 CFR 63, and are as follows:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that:

A. Are associated with events that have made a significant contribution to the broad patterns of our history; or
B. Are associated with the lives of persons significant in our past; or
C. Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. Have yielded, or may be likely to yield, information important in prehistory or history.

In addition to these criteria, a property must retain historic integrity to be considered historically significant. Historic integrity, as defined by the National Park Service, is the authenticity of the physical identity that is evidenced by the survival of characteristics that existed during the resource's period of significance. Historic properties must retain enough of their historic character or appearance to be recognizable as significant properties and to convey the reasons for their significance. Integrity must be evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association.

5.5.2.2 State

California Register of Historical Resources

Under Section 21083.2 of CEQA, an important archaeological or historical resource is an object, artifact, structure, or site that is listed on, or eligible for listing on, the CRHR. Eligible resources are those that can be clearly shown to meet any of the following criteria:

A. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

B. Is associated with the lives of persons important in our past

C. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value

D. Has yielded, or may be likely to yield, information important in prehistory or history

Automatic listings include properties that are listed on the NRHP. In addition, Points of Historical Interest nominated from January 1998 onward are to be jointly listed as Points of Historical Interest and on the CRHR.

Resources listed in a local historic register or deemed significant in a historical resources survey, as provided under Public Resources Code (PRC) Section 5024.1(g), are presumed to be historically or culturally significant unless the preponderance of evidence demonstrates that they are not. A resource that is not listed on or determined to be ineligible for listing on the CRHR, not included in a local register of historical resources, or not deemed significant in a historical resources survey may nonetheless be historically significant, as determined by the lead agency (PRC Section 21084.1 and Section 21098.1).

Pursuant to Section 15064.5, a cultural resource is considered to be historically significant if it meets the criteria for listing in the CRHR (PRC Section 5024.1, Title 14 CCR, Section 4852), including the following:

A. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States; or

B. Associated with the lives of persons important to local, California, or national history; or

C. Embodies the distinctive characteristics of a type, period, region, or method of construction; or represents the work of an important creative individual; or possesses high artistic values; or

D. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Historic integrity is the ability of a property to convey its significance and is defined as the authenticity of a resource's historic identity, evidenced by the survival of characteristics that existed during the resource's period of significance. Historical resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity must be evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. A resource that has lost its historic character or appearance still may have sufficient integrity for the CRHR if it maintains the potential to yield significant scientific or historical information or specific data.

California Health and Safety Code and Public Resources Code

Broad provisions for the protection of Native American cultural resources are contained in the California Health and Safety Code, Division 7, Part 2, Chapter 5 (Sections 8010 through 8030).

Several provisions of the PRC also govern archaeological finds of human remains and associated objects. Procedures are detailed under PRC Section 5097.98 through 5097.996 for actions to be taken whenever Native American remains are discovered. Furthermore, Section 7050.5 of the California Health and Safety Code states that any person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes human remains in or from any location other than a dedicated cemetery without authority of law is guilty of a misdemeanor, except as provided in Section 5097.99 of the PRC. Any person removing human remains without authority of law or written permission of the person or persons having the right to control the remains under PRC Section 7100 has committed a public offense that is punishable by imprisonment.

PRC Chapter 1.7, Section 5097.5/5097.9 (Stats. 1965, c. 1136, p. 2792), entitled Archaeological, Paleontological, and Historical Sites, defines any unauthorized disturbance or removal of a fossil site or remains on public land as a misdemeanor and specifies that state agencies may undertake surveys, excavations, or other operations as necessary on state lands to preserve or record paleontological resources.

5.5.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and Certified Unified Program Agencies (CUPAs) with respect air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

Background research indicated that no cultural resources designated for local listing are located in the project area.

5.5.3 Impact Questions

The project's potential effects on cultural resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.5-7 and discussed in more detail in Section 5.5.4.

Table 5.5-7. CEQA Checklist for Cultural Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☐	☒	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☒	☐

5.5.3.1 Additional CEQA Impact Questions

None.

5.5.4 Potential Impact Analysis

Project impacts related to cultural resources were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.5.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts to cultural resources were evaluated for each of the criteria listed in Table 5.5-6, as discussed in Sections 5.5.4.2 and 5.5.4.3.

5.5.4.2 Applicant-Proposed Measures and Best Management Practices

PG&E and LEU will implement the following APMs and BPMs:

APM CUL-1. Develop and Implement Worker Environmental Awareness Program Prior to Construction. PG&E will design and implement a worker environmental awareness program that will be provided to all project personnel involved in earth-moving activities. This training will be administered by a qualified cultural resource professional either as a stand-alone training or as part of the overall environmental awareness training required by the project and may be recorded for use in subsequent training sessions. No construction worker will be involved in field operations without having participated in the worker environmental awareness program, which will include, at a minimum:

1. A review of archaeology, history, precontact, and Native American cultures associated with historical resources in the project vicinity
2. A review of applicable local, state, and federal ordinances, laws, and regulations pertaining to historic preservation
3. A discussion of procedures to be followed in the event that unanticipated cultural resources are discovered during implementation of the project
4. A discussion of disciplinary and other actions that could be taken against persons violating historic preservation laws and PG&E policies
5. A statement by the construction company or applicable employer agreeing to abide by the Worker Education Program, PG&E policies, and other applicable laws and regulations

BMP CUL-1. Develop and Implement Worker Environmental Awareness Program Prior to Construction. LEU will design and implement a worker environmental awareness program that will be provided to all project personnel involved in earth-moving activities. This training will be administered by a qualified cultural resource professional either as a stand-alone training or as part of the overall environmental awareness training required by the project, and may be recorded for use in subsequent training sessions. No construction worker will be involved in field operations without having participated in the worker environmental awareness program, which will include, at a minimum:

1. A review of archaeology, history, precontact, and Native American cultures associated with historical resources in the project vicinity
2. A review of applicable local, state, and federal ordinances, laws, and regulations pertaining to historic preservation
3. A discussion of procedures to be followed in the event that unanticipated cultural resources are discovered during implementation of the project
4. A discussion of disciplinary and other actions that could be taken against persons violating historic preservation laws and PG&E policies
5. A statement by the construction company or applicable employer agreeing to abide by the Worker Education Program, PG&E policies, and other applicable laws and regulations

APM CUL-2. Archaeological Construction Monitoring in High-Sensitivity Areas. In high-sensitivity areas where survey did not identify archaeological resources (PG&E structures W12, W13 and W14), once per day during ground-disturbing activities a qualified archaeological monitor will observe the ground-disturbing activities and have the authority to halt ground-disturbing work temporarily within 100 feet of a find when safe to do so to assess the find. The assessment, and any subsequent evaluation, will follow the processes described in APM CUL-3. Monitoring at these locations can be reduced if, after initial monitoring, the qualified archaeological monitor has determined there is a low likelihood of identifying cultural resources.

APM CUL-3: Inadvertent Cultural Resource Discoveries. While the pedestrian survey had good ground visibility and did not identify any new cultural resources, it is not uncommon to have unanticipated cultural discoveries during construction. The precontact buried site sensitivity analysis identified a high potential for buried resources near SR 88 and Bear Creek. Additionally, the area has historically been occupied and used for agricultural purposes since the late 1900s. For these reasons, precontact and historic-era inadvertent discoveries are possible during construction. If such discoveries take place, the following procedures will be initiated:

1. All ground-disturbing construction activities within 100 feet of the discovery will halt immediately.
2. The construction crew will protect the discovery from further disturbance until it has been assessed by a qualified archaeologist.

3. The construction supervisor will immediately contact the project construction inspector and the PG&E cultural resource specialist.
4. The PG&E cultural resources specialist will coordinate with the state lead officials, as appropriate. If the discovery can be avoided or protected and no further impacts will occur, then the resource will be documented on DPR 523 forms, and no further effort will be required. If the resource cannot be avoided and may be subjected to further impacts, qualified personnel will evaluate the significance of the discovery in accordance with the state laws outlined previously; personnel will implement data recovery or other appropriate treatment measures, if warranted. A qualified historical archaeologist will complete an evaluation of historic-period resources, while evaluation of precontact resources will be completed by a qualified archaeologist specializing in California prehistoric archaeology. Evaluations may include archival research, oral interviews, and/or field excavations to determine the full depth, extent, nature, and integrity of the deposit.

BMP CUL-3. Inadvertent Cultural Resource Discoveries. While the pedestrian survey had good ground visibility and did not identify any new cultural resources, it is not uncommon to have unanticipated cultural discoveries during construction. The precontact buried site sensitivity analysis identified a low potential for buried resources in the LEU portion of the project. Additionally, the area has historically been occupied and used for agricultural purposes since the late 1900s. For these reasons, precontact and historic-era inadvertent discoveries are possible during construction. If such discoveries take place, the following procedures will be initiated:

1. All ground-disturbing construction activities within 100 feet of the discovery will halt immediately.
2. The construction crew will protect the discovery from further disturbance until it has been assessed by a qualified archaeologist.
3. The construction supervisor will immediately contact the project construction inspector and the LEU cultural resource specialist.
4. The LEU cultural resource lead will coordinate with the state lead officials, as appropriate. If the discovery can be avoided or protected and no further impacts will occur, then the resource will be documented on DPR 523 forms, and no further effort will be required. If the resource cannot be avoided and may be subjected to further impacts, qualified personnel will evaluate the significance of the discovery in accordance with the state laws outlined previously; personnel will implement data recovery or other appropriate treatment measures, if warranted. A qualified historical archaeologist will complete an evaluation of historic-period resources, while evaluation of precontact resources will be completed by a qualified archaeologist specializing in California prehistoric archaeology. Evaluations may include archival research, oral interviews, and/or field excavations to determine the full depth, extent, nature, and integrity of the deposit.

APM CUL-4. Unanticipated Discovery of Human Remains. If human remains or suspected human remains are discovered during PG&E construction, work within 100 feet of the find will stop immediately and the construction supervisor will contact the PG&E cultural resources specialist, who meets the Secretary of Interior's Standards for archaeology. Upon discovery, the Coroner Division of the San Joaquin County Sheriff's Office will be contacted for identification of human remains. The Coroner has 2 working days to examine the remains after being notified.

If the remains are Native American, the Coroner must notify the Native American Heritage Commission (NAHC) of the discovery within 24 hours. The NAHC then will identify and contact a Most Likely Descendant (MLD). The MLD may make recommendations to the landowner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. When proper consultation has occurred, a procedure that may include the preservation, excavation, analysis, and curation of artifacts and/or reburial of those remains and associated artifacts will be formulated and implemented.

If the remains are not Native American, the Coroner will consult with the archaeological research team and the lead agency to develop a procedure for the proper study, documentation, and ultimate disposition of the remains. If a determination can be made as to the likely identity—either as an individual or as a

member of a group—of the remains, an attempt should be made to identify and contact any living descendants or representatives of the descendant community. As interested parties, these descendants may make recommendations to the owner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. Final disposition of any human remains or associated funerary objects will be determined in consultation between the landowner and the MLD.

BMP CUL-4. Unanticipated Discovery of Human Remains. If human remains or suspected human remains are discovered during LEU construction, work within 100 feet of the find will stop immediately and the construction supervisor will contact the LEU cultural resources specialist, who meets the Secretary of Interior's Standards for archaeology. Upon discovery, the Coroner Division of the San Joaquin County Sheriff's Office will be contacted for identification of human remains. The Coroner has 2 working days to examine the remains after being notified.

If the remains are Native American, the Coroner must notify the Native American Heritage Commission (NAHC) of the discovery within 24 hours. The NAHC then will identify and contact a Most Likely Descendant (MLD). The MLD may make recommendations to the landowner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. When proper consultation has occurred, a procedure that may include the preservation, excavation, analysis, and curation of artifacts and/or reburial of those remains and associated artifacts will be formulated and implemented.

If the remains are not Native American, the Coroner will consult with the archaeological research team and the lead agency to develop a procedure for the proper study, documentation, and ultimate disposition of the remains. If a determination can be made as to the likely identity—either as an individual or as a member of a group—of the remains, an attempt should be made to identify and contact any living descendants or representatives of the descendant community. As interested parties, these descendants may make recommendations to the owner or representative for the treatment or disposition, with proper dignity, of the remains and grave goods. Final disposition of any human remains or associated funerary objects will be determined in consultation between the landowner and the MLD.

5.5.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

Project impacts on cultural resources are defined by CEQA as a change in the characteristics of a resource that convey its significance or justify its eligibility for inclusion on the CRHR or local register. Direct impacts may occur by: (1) physically damaging, destroying, or altering all or part of a resource, (2) altering characteristics of the surrounding environmental setting that contribute to the significance of a resource, (3) allowing a resource to deteriorate through neglect, or (4) incidental discovery of archaeological

resources without proper notification. Direct impacts can be assessed by determining the exact location of historical resources and assessing their significance under the NRHP and CEQA criteria, identifying the types and extent of the proposed impacts and their effect on significant resources, and determining appropriate measures to reduce impacts to less-than-significant levels. Indirect impacts may include changes to the viewshed of a significant resource through introduction of a new project element.

CEQA recommends avoidance or preservation in place as the preferred treatment for eligible properties and unique or important archaeological or historical resources (PRC 21083.2). If avoidance is not a feasible option, data recovery is a common treatment. For architectural resources, if physical changes to a property – excluding demolition – can be treated following the Secretary of Interior Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings, the project-related impact on the historical resource will generally be considered to be reduced to a less-than-significant level.

No cultural impacts are expected during the operation and maintenance phase of the project.

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

In total, the architectural API has 188 parcels, 96 of which were constructed prior to 1977. Sixty-eight newly identified architectural resources and one previously unrecorded segment of the CCT Railroad (P-39-004457/ CA-SJO-294H) within the architectural API were recorded and evaluated during the project's environmental assessment. Although not eligible for listing in the CRHR, the CCT Railroad resource will be entirely avoided during the course of the project. Seven resources were evaluated as eligible for listing in the CRHR and considered historical resources for the purposes of CEQA for this project. The 7 eligible architectural resources are located outside of the City of Lodi and are more than 2,000 feet from PG&E's Lockeford Substation expansion and PG&E 60 kV line reconfiguration.

The seven eligible architectural resources will not be significantly impacted by the new PG&E 230 kV transmission line because of existing visual intrusions, no physical impacts, and distance from the existing resources. There would be no physical impacts to these resources; therefore, the resources would retain their integrity of location, design, materials, workmanship, feeling, and association. The historic and current uses of these resources would remain intact (rural residential properties, some of which are engaged in small-scale agriculture on medium-sized parcels). In addition, the character-defining features associated with each resource, such as their massing, materials, orientation, and landscape features, would remain intact and not be diminished by the new PG&E 230 kV transmission line. In most cases, the new PG&E 230 kV transmission line will range from approximately 350 feet to approximately 1,100 feet from the contributing resources within the property. Therefore, the resources would continue to convey their significance under their applicable CRHR criteria, such as Criterion 1 for representing the increasing settlement in small rural residences during their periods of construction and Criterion 3 for distinctive design. In addition, while the new PG&E 230 kV transmission line may be visible from certain public vantage points, other changes have occurred to the setting and feeling of the areas, and the project will be a marginal change that will not diminish the characteristics that make the resources significant. There will be a less-than-significant impact to historical resources from this project during construction.

Project operation and maintenance will not be ground disturbing and will occur within city streets, facilities, or electrical line ROWs and, as such, will not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5; no impact will occur.

LEU Potential Impact Discussion

The LEU portion of the project has no newly identified architectural resources and is near the previously unrecorded segment of the CCT Railroad. LEU's relocation of its existing overhead 12 kV feeder line to an underground configuration and activities at LEU Industrial and Guild substations will occur approximately

50 feet south of the CCT Railroad segment within the City of Lodi. Although not eligible for listing in the CRHR, the historic-era railroad segment (P-39-004457/CA-SJO-294H) is entirely avoided by the LEU portion of the project. There will be no impact to historical resources from this project during construction.

Project operation and maintenance will not be ground disturbing and will occur within facilities or electrical line ROWs and, as such, will not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5; no impact will occur.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

Surface surveys and records searches identified five archaeological sites within the archaeological API. There is a low potential to encounter surface precontact resources based on the survey. The potential is the highest adjacent to the creeks in the center of the archaeological API. An analysis of sensitivity for buried precontact-era sites determined that the majority of the archaeological API has a low to lowest potential. There is a high potential for buried precontact resources in the central portion of the archaeological API, near SR 88 and Bear Creek. While no archeological resources were observed in the areas with high potential, APM CUL-2 will be implemented to further reduce the potential for impact to buried resources at PG&E 230 kV structures W12, W13, and W14. Archival research found moderate potential for historic-era surface and subsurface deposits. No impacts to archaeological resources are anticipated.

As such, with the implementation of APM CUL-1, APM CUL-2, and APM CUL-3, impacts to resources would be considered less than significant during construction.

Project operation and maintenance will not be ground disturbing and will occur within city streets, facilities, or electrical line ROWs and, as such, will not cause a substantial adverse change in the significance of an archaeological resource as defined in Section 15064.5; no impact will occur.

LEU Potential Impact Discussion

Surface surveys and records searches did not identify any archaeological sites within the API. An analysis of sensitivity for buried precontact-era sites determined that the LEU portion of the project within the API has a low potential. Archival research found moderate potential for historic-era surface and subsurface deposits. No impacts to archaeological resources are anticipated.

As such, with the implementation of BMP CUL-1 and BMP CUL-3, impacts to resources would be considered less than significant.

Project operation and maintenance will not be ground disturbing and will occur within facilities or electrical line ROWs and, as such, will not cause a substantial adverse change in the significance of an archaeological resource as defined in Section 15064.5; no impact will occur.

c) Would the project disturb any human remains, including those interred outside of formal cemeteries? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

There are no known graves within the APIs and the records search and Sacred Lands File search found no archaeological sites containing human remains within the search radius. The Lodi Memorial Park and Cemetery fence is adjacent to the existing PG&E 12 kV distribution pole on the east side of South Guild Avenue. An underground line extension will be installed away from the cemetery within the roadway to PG&E Thurman Switching Station. It is unlikely that human remains will be encountered during the course of the project. The PG&E portion of the project will not impact any known graves during construction,

operation, or maintenance. Project impacts on human remains are not anticipated. If human remains are discovered, PG&E will implement APM CUL-4.

LEU Potential Impact Discussion

There are no known graves within the APIs and the records search and Sacred Lands File search found no archaeological sites containing human remains within the search radius. The Lodi Memorial Park and Cemetery is approximately 120 feet north of the LEU 12 kV feeder line relocation from an overhead to an underground configuration. The LEU portion of the project will not impact any known graves during construction, operation, or maintenance. Project impacts on human remains are not anticipated. If human remains are discovered, LEU will implement BMP CUL-4.

5.6 Energy

This section describes existing conditions and potential impacts on energy as a result of construction, operation, and maintenance of the project. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The analysis concludes that less-than-significant impacts on energy will occur. The project's potential effects on energy resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.6-1 and discussed in more detail in Section 5.6.3.

5.6.1 Methodology and Environmental Setting

Local and state websites were reviewed for regulatory background information and information on existing energy providers and resources in San Joaquin County.

5.6.1.1 Methodology

The impact analysis used assumptions regarding construction-related fossil fuel use and operational energy requirements. Construction-related fossil fuel use was estimated based on the anticipated construction equipment use, vehicle trips, and helicopter use. The California Air Resources Board (CARB) In-Use Off-Road 2021 Diesel Emission Factors model was used to estimate the total amount of diesel fuel use based on vehicle category and horsepower rating. Refer to Appendix E for energy use detail.

EMFAC2021 was used to estimate the gasoline and diesel fuel used by on-road vehicles, assuming the following based on VMT:

- Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2).
- Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Jet fuel use by helicopters was estimated using fuel consumption numbers from the FOCA methodology, which assumes one landing and takeoff per hour for a twin-engine medium-lift helicopter. Electricity use during construction and operation of the proposed project was assumed to be minimal.

5.6.1.2 Environmental Setting

The proposed project will be located within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (refer to Figure 3.1-1). The foothills of the Diablo Range define the southwest corner of the County and the foothills of the Sierra Nevada lie along the County's eastern boundary. Major geographic features in the project area include the Mokelumne River, Bear Creek, SR 99, SR 88, and SR 12. The topography in the area generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project. Northeastern San Joaquin County is predominantly agricultural with retail wineries, rural and semi-rural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

5.6.1.3 Existing Electrical and Natural Gas Services

San Joaquin County is served by PG&E, Modesto Irrigation District, Lodi Electric Utility, and the Port of Stockton for electricity. PG&E also provides natural gas service within the County. San Joaquin County has 26 power plants generating electricity, most operating on natural gas, with the remaining operating on biomass, hydroelectric, solar, and wind power. The largest electric power generator in San Joaquin County

is the NCPA Lodi Energy Center (LEC), with a capacity of approximately 304 MW of natural gas-fired power. NCPA also operates two combustion turbines with the City of Lodi. CT1, with a capacity of approximately 25 MW, has dual fuel capability, with natural gas as the primary fuel. CT2, an approximately 49.9 MW steam injected combustion turbine unit, uses reclaimed wastewater to produce steam (NCPA 2022). Within the proposed project area, PG&E currently transmits high-voltage electricity to existing substations, where the voltage is stepped down for distribution throughout the area. PG&E provides 60 kV power to LEU, which steps down the power for distribution to LEU customers in the City of Lodi.

The CEC provides data on energy production sources. Table 5.6-1 shows energy production sources for the energy providers in San Joaquin County.

Table 5.6-1. San Joaquin County Energy Providers and Sources

	2020 Energy Source Mix			
Electrical Energy Source	PG&E Base Plan	Modesto Irrigation District Retail Energy	LEU	Stockton Port District Retail Electric Load
Eligible Renewable	30.6%	24.3%	26.8%	46.5%
Coal	0.0%	0.0%	0.0%	0.0%
Large Hydroelectric	10.1%	29.0%	19.2%	0.0%
Natural Gas	16.4%	18.4%	19.7%	0.0%
Nuclear	42.8%	2.7%	0.0%	0.0%
Other or Unspecified Power[a]	0.0%	25.6%	34.3%	53.5%
Total	100%	100%	100%	100%

[a] "Unspecified Power" is defined as electricity from transactions that are not traceable to specific generation sources.

Source: CEC 2022

5.6.1.4 Existing Energy Use

Within San Joaquin County, total energy consumption has increased since the early 1990s. However, energy consumption has increased at a lower rate than population increase, suggesting less energy usage per person or greater energy efficiency (SJCOG 2022). In 2021, residences of San Joaquin County collectively consumed approximately 5,608 million kilowatt hours (kWh) of electricity and non-residential consumption was approximately 3,483 million kWh (CEC 2016). Energy consumption in the immediate project area is directly correlated with the particular land uses.

5.6.1.5 Energy Conservation

PG&E sponsors several energy conservation programs that include education, solar energy incentives, electric cars, the fluorescent lighting business program, and a weatherization program for low-income families. These services are intended to reduce energy consumption in homes through the replacement of inefficient appliances and minor housing repairs, making homes more energy efficient. Consumers also receive educational materials that provide energy-saving tips and information.

5.6.2 Regulatory Setting

The following sections contain an overview of regulations related to the use of energy and energy conservation.

5.6.2.1 Federal

Energy Policy Act of 2005

The Energy Policy Act created energy-related tax incentives from 2005 to 2016 to promote energy efficiency and conservation pertaining to renewable energy, oil and gas production and transmission, coal production, and electric generation and transmission.

American Recovery Reinvestment Act of 2009

As part of a larger stimulus package, the Recovery Act authorized federal funding to the U.S. Department of Energy to forward specific energy priorities, including modernizing the nation's electric transmission grid.

5.6.2.2 State

Renewable Portfolio Standard Program

Established in 2002, California's Renewable Portfolio Standard aims to ensure that a minimum amount of renewable energy is included in the portfolio of electricity resources serving a state or county. In September 2018, SB 100 was signed into law, which directed the CPUC, CEC, and CARB to plan for 100% of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. The law notes that new and modified electric transmission facilities may be necessary to facilitate the state achieving its renewable portfolio standard targets.

Renewable Energy Transmission Initiative

The Renewable Energy Transmission Initiative 2.0 is a statewide, nonregulatory planning effort convened by the California Natural Resources Agency, with participation from the CEC, CPUC, CAISO, and the U.S. Bureau of Land Management, California Office. The Renewable Energy Transmission Initiative 2.0 was created to explore the renewable generation potential available to California utilities to help meet statewide GHG reduction and renewable energy goals, and to identify the potential transmission implications of accessing and integrating these resources.

California 2008 Energy Action Plan Update

Originally developed in 2003 and updated in 2005 and 2008, the California Energy Action Plan identifies specific action areas to ensure that California's energy resources are adequate, affordable, technologically advanced, and environmentally sound. The plan's first-priority actions to address California's increasing energy demands are energy efficiency and demand response (namely, reduction of customer energy usage during peak periods to address system reliability and support the best use of energy infrastructure). Additional priorities include the use of renewable sources of power and distributed generation. The plan also notes that investment in conventional transmission infrastructure is crucial to helping the state meet its renewable energy goals.

California Climate Crisis Act

Approved in September 2022, the California Climate Crisis Act (or AB 1279) requires the state of California to achieve net zero GHG emissions by 2045, to achieve and maintain net negative GHG emissions thereafter, and to ensure that statewide anthropogenic GHG emissions are reduced to at least 85% below 1990 levels by 2045. Under this act, future updates to CARB's *Climate Change Scoping Plan* must identify and recommend a variety of policies and measures to achieve these goals, particularly those that enable carbon dioxide (CO_2) removal or carbon capture, utilization, and storage technologies.

Integrated Energy Policy Report

The CEC adopts an Integrated Energy Policy Report (IEPR) every 2 years, which provides a cohesive approach to identifying and solving the state's pressing energy needs and issues. The report contains an integrated assessment of major energy trends and issues facing California's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources and ensure a reliable, secure, and diverse energy supply, among other objectives. An update is published every other year and was most recently provided in February 2023 to address 2022 trends. Some of the key recommendations or actions from this update, as related to renewable energy resources, include the following:

- Examine how to balance the roles of distributed energy resources and grid assets in making the energy transition away from fossil fuels.
- Examine the role of interconnection and how utility process reform can increase the pace of distributed energy resources deployment.
- Initiate efforts to analyze opportunities for additional reliability investments and develop a Clean Energy Reliability Investment Plan.
- Enact the Strategic Electricity Reliability Reserve to make additional generation and load reduction available during extreme events.

5.6.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies for LEU's portion of the project.

San Joaquin County General Plan

The 2035 *San Joaquin County General Plan* (San Joaquin County 2016) includes implementation programs to accomplish the following:

- Prepare and adopt a Sustainability Master Plan.
- Prepare and adopt updated low-impact development standards.
- Prepare a study on feasibility of developing a waste-to-energy facility.
- Develop and implement a renewable energy/property assessed clean energy program.
- Remove barriers to renewable energy.
- Develop and adopt an ordinance for solar energy facilities.
- Review energy consumption of county operations.
- Evaluate the feasibility of replacing government automobiles with energy-efficient vehicles.
- Establish industrial design standards.

City of Lodi General Plan

The *City of Lodi General Plan* identifies goals and policies aimed at energy conservation and increased renewable energy sources. The City administers and implements a variety of local energy conservation and waste reduction programs, including using low-voltage LED lighting equipment in traffic signals; solar-assisted equipment at all new bus shelters and stops; energy education programs for children and

students; standards for photovoltaic panel installations; and lighting, heating, solar, and air conditioning rebate programs for residential and nonresidential customers through the City's electric utility. As of 2021, more than 35% of the City's power came from carbon-free sources (LEU 2021).

5.6.3 Impact Questions

The project's potential effects on energy were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.6-2 and discussed in more detail in Section 5.6.4.

Table 5.6-2. CEQA Checklist for Energy

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Result in potential significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

5.6.3.1 Additional CEQA Impact Questions

The project's potential effects on energy also were evaluated using the CPUC's Additional CEQA Impact Questions for Energy in the *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments* (CPUC 2019). This additional impact question is evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are presented in Table 5.6-3 and discussed in more detail in Section 5.6.4.

Table 5.6-3. Additional CEQA Impact Questions for Energy

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Add capacity for the purpose of serving a nonrenewable energy resource?	☐	☐	☒	☐

5.6.4 Potential Impact Analysis

Project impacts related to energy were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.6.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts

related to energy was evaluated for each of the criteria listed in Table 5.6-2 and Table 5.6-3 and discussed in Section 5.6.4.3.

5.6.4.2 Applicant-Proposed Measures and Best Management Practices

APM GHG-1 and BMP GHG-1 are discussed in Section 5.8.4.2 (Greenhouse Gas) and will simultaneously contribute to the reduction of energy resources.

5.6.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

Table 5.6-4 shows a summary of the estimated fuel consumption associated with the proposed project construction and operation and maintenance based on the proposed construction schedule and estimated equipment usage (refer to Appendix E for Energy Consumption Calculations).

Table 5.6-4. Summary of Estimated Fuel Consumption During Construction and Operation and Maintenance

Project Activity	Gasoline (gallons)	Diesel (gallons)	Jet Fuel (gallons)
PG&E Portion of the Project – Construction Duration	22,01	280,915	11,101
PG&E Portion of the Project – Annual Operations & Maintenance	186	774	355
PG&E Total Fuel Consumption	22,237	281,689	11,456
LEU Portion of the Project – Construction Duration	3,164	98,640	-
LEU Portion of the Project – Annual Operations & Maintenance	-	357	-
LEU Total Fuel Consumption	3,164	98,997	-
Total Project Fuel Consumption	25,401	380,687	11,456

Notes:

Emissions from LEU Construction and Operation were obtained from City of Lodi 2022.

Table 5.6-5 compares the statewide total fuel consumption statistics obtained from the August 1, 2021, through July 31, 2022, CEC *Weekly Fuels Watch Report*, with the project.

Table 5.6-5. Summary of Estimated Fuel Consumption During Construction and Operation and Maintenance Compared to Statewide Fuel Consumption

Project Activity	Fuel Type	Estimated Amount of Fuel Consumed (gallons)[a]	Statewide Fuel Resources Consumed August 1, 2021, through July 31, 2022 (gallons)[b]	Consumed by Project (%)
PG&E Portion of the Project – Construction	Gasoline	22,051	12,875,755,200	0.0002%
	Diesel	280,915	4,297,076,691	0.0065%
	Jet Fuel	11,101	3,899,952,000	0.0003%
PG&E Portion of the Project – Operations & Maintenance	Gasoline	186	12,875,755,200	0.000001%
	Diesel	774	4,297,076,691	0.000018%
	Jet Fuel	355	3,899,952,000	0.000009%
LEU Portion of the Project – Construction	Gasoline	3,164	12,875,755,200	0.00002%
	Diesel	98,640	4,297,076,691	0.0023%
LEU Portion of the Project – Operations & Maintenance	Diesel	357	4,297,076,691	0.00001%
Total	Gasoline	25,401	12,875,755,200	0.0002%
	Diesel	380,687	4,297,076,691	0.0089%
	Jet Fuel	11,456	3,899,952,000	0.0003%

Notes:

[a] Total gallons of fuel consumed for project construction represents the total gasoline from the employee vehicle trips and the total diesel from the construction equipment and vendor delivery truck trips during the construction phases.

[b] Source: CEC 2022. A conservative estimate of annual statewide fuel resources consumed is assumed to be equivalent to 100% of annual production/stocks consumed within the state.

a) Would the project result in potential significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The project may indirectly result in wasteful, inefficient, or unnecessary consumption of energy resources if existing customers using project infrastructure to receive energy resources engage in irresponsible energy use. However, construction and operation of PG&E's portion of the project will not directly result in potentially significant impacts caused by wasteful, inefficient, or unnecessary consumption of energy resources. Construction of the PG&E portion of the project has an expected duration of approximately 34 months and will require consumption of nonrenewable resources to fuel construction vehicles, equipment, and helicopters. Additionally, operation and maintenance of the project will require the consumption of nonrenewable resources to fuel vehicles, equipment, and helicopters. As shown in Table 5.6-4, construction and operation and maintenance of PG&E components will result in the consumption of an estimated 22,237 gallons of gasoline, 281,689 gallons of diesel, and 11,456 gallons of jet fuel.

As compared to the statewide total fuel consumption for one year, PG&E project construction and operation and maintenance activities will consume a minimal amount of fuel, less than 0.01% of the statewide fuel consumption, as shown in Table 5.6-5.

PG&E structure installation and wire stringing will be temporary with construction work locations moving along the proposed PG&E 230 kV transmission line alignment. PG&E project-related work at its stations will be temporary and require minimal vehicle trips after workers arrive to station locations. PG&E's engineering and construction have developed an efficient construction plan and sequence that minimizes

vehicle trips and avoids wasteful, inefficient, or unnecessary consumption of energy. Implementation of APM GHG-1, which minimizes unnecessary construction vehicle idling time will further reduce energy consumption. Energy consumption during operations of PG&E portion of the project is limited to periodic maintenance vehicle and equipment usage, typical of electrical facilities. Therefore, impacts on energy resources from the project will be less than significant.

LEU Potential Impact Discussion

The project may indirectly result in wasteful, inefficient, or unnecessary consumption of energy resources if existing customers using project infrastructure to receive energy resources engage in irresponsible energy use. However, the construction and operation of LEU portion of the project will not directly result in potentially significant impacts caused by wasteful, inefficient, or unnecessary consumption of energy resources. LEU construction of its portion of the project has an expected duration of approximately 13 months and will require consumption of nonrenewable resources to fuel construction vehicles, and equipment. As shown in Table 5.6-4, construction of the LEU portion of the project will result in the consumption of an estimated 3,164 gallons of gasoline, 98,997 gallons of diesel. LEU operation and maintenance activities is expected to have an additional 4 hours of monthly truck trips, which will result in approximately 357 gallons of diesel used annually. The use of jet fuel is not anticipated for LEU activities.

As compared to the statewide total fuel consumption for one year, LEU project construction activities will consume a minimal amount of fuel, less than 0.01% of the statewide fuel consumption, as shown in Table 5.6-5.

LEU's engineering and construction have developed an efficient construction plan and sequence that minimizes vehicle trips and avoids wasteful, inefficient, or unnecessary consumption of energy. Implementation of BMP GHG-1, which minimizes unnecessary construction vehicle idling time will further reduce energy consumption. Energy consumption during operations is limited to periodic maintenance vehicle and equipment usage, typical of electrical facilities. Therefore, impacts on energy resources from the project will be less than significant.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency? *No Impact.*

PG&E Potential Impact Discussion

Construction of the project will support state and local plans for developing renewable energy and energy efficiency. The project provides for PG&E 230 kV transmission structures and conductors with new, high-capacity conductor capable of increasing the deliverability of renewable generation from energy production sites, including renewable sources. As shown in Table 5.6-1, PG&E sources approximately 30.6% of energy from Eligible Renewable sources. The new PG&E circuit will be capable of efficiently transmitting energy from Eligible Renewable sources, add needed reinforcement to the system, and provide an additional avenue for electrical energy to reach LEU.

Construction of the project will allow PG&E to meet its obligation to add the CAISO-approved project to the CAISO-controlled grid, as discussed in the 2017-2018 Transmission Planning Process. No impact will occur.

LEU Potential Impact Discussion

Construction of the project will support state and local plans for developing renewable energy and energy efficiency. The project provides for conductors with new, high-capacity conductor capable of increasing the deliverability of renewable generation from energy production sites, including renewable sources. As shown in Table 5.6-1, LEU sources approximately 26.8% of energy from Eligible Renewable sources. The new LEU facilities will be capable of efficiently receiving energy from Eligible Renewable sources through PG&E new 230 kV source, and provide an additional avenue for electrical energy to reach LEU. No impact will occur.

5.6.4.4 Additional Impact Question

Would the project add capacity for the purpose of serving a non-renewable energy resource? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The existing system includes service to LEU by PG&E through three existing PG&E 60 kV power lines. The proposed system will differ from the existing system by changing PG&E's service to LEU from the existing three 60 kV lines to two new PG&E 230 kV transmission lines. After the new 230 kV source is in service, the PG&E Lockeford-Lodi 60 kV system will increase from its current normal load serving capability of 194 MW. Moving the LEU load to the 230 kV source will conserve more capacity on the 60 kV system. After the project, the load-serving capability of the 230/60 kV system will be approximately 404 MW.

The project will not add capacity for the specific purpose of serving a non-renewable energy resource. However, the project infrastructure will be available for interconnection from both renewable and non-renewable energy sources. The project will not add capacity for the purpose of serving a non-renewable energy resource such as local generation by NCPA and the City of Lodi (LEC, CT1, and CT2) that utilizes natural gas as part of its existing operation. A less-than-significant impact will result.

LEU Potential Impact Discussion

The existing system includes service to LEU by PG&E through three existing PG&E 60 kV power lines. The proposed system will differ from the existing system by changing PG&E's service to LEU from the existing three 60 kV lines to two new PG&E 230 kV transmission lines. After the new 230 kV source is in service, the PG&E Lockeford-Lodi 60 kV system will increase from its current normal load serving capability of 194 MW. Moving the LEU load to the 230 kV source will conserve more capacity on the 60 kV system. After the project, the load-serving capability of the 230/60 kV system will be approximately 404 MW.

The project will not add capacity for the specific purpose of serving a non-renewable energy resource. However, the project infrastructure will be available for interconnection from both renewable and non-renewable energy sources. The project will not add capacity for the purpose of serving a non-renewable energy resource such as local generation by NCPA and the City of Lodi (LEC, CT1, and CT2) that utilizes natural gas as part of its existing operation. A less-than-significant impact will result.

5.7 Geology, Soils, and Paleontological Resources

This section describes existing conditions and potential impacts on geology, soils, and paleontological resources as a result of construction, operation, and maintenance of the project. The analysis concludes that, although these resources will be temporarily affected by project construction, project-related impacts to geology, soils, and paleontological resources will be less than significant. The APMs and BMPs, as described in Section 5.7.4.2, will further reduce impacts. The project's potential effects were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.7-2 (located in Section 5.7.3) and discussed in more detail in Section 5.7.4.

5.7.1 Methodology and Environmental Setting

5.7.1.1 Methodology

Information on geology and soils was compiled from published literature, maps, and examination of aerial photographs. Geologic units and structural features were obtained from maps published by the California Geological Survey (CGS) and U.S. Geological Survey (USGS).

Soil descriptions were obtained from mapping by the NRCS (NRCS 2019). Information on unique paleontological resources or sites or unique geological features was obtained from published and unpublished geological maps and literature, as well as records searches of paleontological collections at the Natural History Museum of Los Angeles County and the University of California Museum of Paleontology (UCMP) at Berkeley, and a pedestrian reconnaissance field survey of the project area. Logs from 12 geotechnical boreholes were analyzed to provide a general view of subsurface stratigraphy for potential correlation to mapped geologic surface exposures. Seismic information was developed from several sources, including the USGS, CGS, and the Stanislaus and San Joaquin County General Plans.

Geotechnical reports (Appendix F1, F2 and F3) were prepared to inform the design of the new LEU Guild Substation, new PG&E Thurman Switching Station, and expanded PG&E Lockeford Substation. Also, a Paleontological Resources Impact Evaluation Report (Appendix F4) was prepared by Earthview Science (2022).

Existing data were analyzed according to PG&E Paleontological Resources Standards and Procedures (PG&E 2015). The analysis includes (1) geologic map review, (2) scientific literature review, (3) institutional paleontological records search, (4) aerial imagery review, and (5) available geotechnical reports. Geological maps were obtained at the smallest unit available; in this case, 1:62,500 scale (Marchand & Atwater 1979; Marchand & Bartow 1979). Geological and paleontological literature relevant to the northern San Joaquin Valley was reviewed for paleontological findings. UCMP and Paleobiology databases were searched for paleontological records within 1 mile of the project corridor (UCMP 2022; Paleobiology Database 2022). Google Earth aerial imagery also was reviewed for physiographic context and land use of the project site and vicinity.

5.7.1.2 Regional and Local Geologic Setting

The main project area is near the geographic center of California in the San Joaquin Valley, which is the southern portion of the Central Valley of California (as shown on Figure 5.7-1). The Central Valley also is referred to as the Great Valley Geomorphic Province. It extends for approximately 450 miles from low-lying hills near Red Bluff in the north to the San Emigdio and Tehachapi Mountains near Bakersfield in the south. The Central Valley is bounded on the northeast by a volcanic plateau of the Cascade Range; on the east by the Sierra Nevada Range, which rises to a maximum height of more than 14,000 feet above mean sea level; and on the west by the Coast Ranges, including the Diablo Range, which extends into the western margin of Merced County. Elevations in the Central Valley range from slightly below mean sea level to 400 feet above mean sea level at its northern and southern ends. The northern one-third of the

valley is known as the Sacramento Valley and the southern two-thirds as the San Joaquin Valley (California DOC 2002a, 2002b; Page 1986; Norris and Webb 1990).

San Joaquin County occupies a central location in California's Central Valley. The southwest corner of the County is defined by small intermittent streams entering the valley from the semi-arid Diablo Range on the west and the foothills of the Sierra Nevada Range lie along the County's eastern boundary. Some streams terminate on alluvial fans and others have been dammed to form reservoirs for irrigation. To the east, perennial rivers flow from the more humid, larger drainage areas of the Sierra Nevada and have been dammed to provide irrigation. In the past, runoff from these drainages deposited sand, silt, and clay and built up large alluvial fans along each side of the valley. The larger, more gently sloping fans on the east side of the valley are primarily composed of sediment deposits derived from granitic rock, which have created extensive foothills. Alluvial fans of the Sacramento-San Joaquin River Delta are composed of sediment derived primarily from sedimentary source rock deposits and generally have steeper slopes. The valley floor is composed of alluvial, floodplain, and delta plain deposits from the surrounding ranges.

During the late Mesozoic and Cenozoic periods, the region existed as a lowland or shallow marine embayment. In the late Cenozoic, much of the area was occupied by shallow brackish and freshwater lakes, particularly in the San Joaquin Valley (Page 1986; Norris and Webb 1990).

The main project area in northeastern San Joaquin County ranges in elevation from a low of approximately 60 feet above mean sea level at LEU Industrial Substation on the western extent to a high of approximately 135 feet above mean sea level at PG&E Brighton-Bellota line on the eastern extent. The surface topography is relatively flat with an overall slope of approximately 0 to 1%. Northeastern San Joaquin County is predominantly agricultural with retail, wineries, and rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

Project work at PG&E remote-end substations will be updating system protection schemes within control rooms, extending existing fiber telecommunication lines, and potentially removing redundant telecommunication equipment within existing fenced station facilities in areas of previous ground disturbance. Project work at PG&E Clayton Hill Repeater Station will be adding two new antennas to an existing telecommunication tower. These PG&E facilities have existing health and safety plans that address the potential hazard of being onsite during an earthquake. These PG&E project activities outside of northeastern San Joaquin County will have no impact on geology, soils, and paleontological resources and are not assessed further in this section.

5.7.1.3 Seismic Hazards

Fault Zones

The Alquist-Priolo Act requires the establishment of "earthquake fault zones" along known active faults in California. A fault is considered active if it has generated earthquakes accompanied by surface rupture during historic time (approximately the last 200 years) or has shown evidence of fault displacement during the Holocene period (approximately the last 11,000 years) (Bryant and Hart 2007). A fault is considered potentially active if there is evidence of fault displacement during the Quaternary period (approximately the last 1.6 million years). A fault is considered inactive if the most recent documented fault displacement predates the Quaternary period. For the purposes of this report, active faults within a distance of approximately 80 miles that may potentially affect the project were identified using the CGS map (CGS 2022).

No known active faults cross the proposed or existing PG&E or LEU project components and none are located within approximately 10 miles of the immediate project vicinity (refer to Figure 5.7-1). Additionally, no known active faults are within San Joaquin County.

San Andreas Fault Zone

The nearest fault of major historical significance is the San Andreas Fault, which passes within a distance of approximately 80 miles southwest of the western most portion of the project at LEU Industrial Substation.

Other major branches include the Greenville Fault (located approximately 37 miles to the southwest), Calaveras Fault (located approximately 51 miles to the southwest), and the Hayward Fault (located approximately 59 miles to the southwest). These active right-lateral, strike-slip faults extend in a northwest-southeast direction to the northwest, west, and southwest of San Joaquin County.

The San Andreas Fault zone extends from the Gulf of California in Mexico to the Mendocino coast in northern California and accommodates the majority of movement between the Pacific and North American plates. Large earthquakes on the San Andreas Fault were recorded in 1838, 1865, 1890, 1906, and 1989. The more recent 1989 earthquake was a magnitude 6.9, while the 1906 earthquake was a magnitude 7.8.

Foothills Fault System

The Foothills Fault system (located approximately 23 miles to the northwest) is a major north-northwest trending group of relatively short, discontinuous normal faults extending along the western Sierra Nevada from Oroville in the north to Fresno in the south. The northern part of the Foothills Fault system ruptured in the 1975 Oroville earthquake. The Bear Mountain Fault extends parallel to the eastern border of San Joaquin County and is the closest member of the Foothills Fault system to the project site. The CGS fault activity map does not indicate evidence of displacement on this portion of the Bear Mountain Fault during the Quaternary period.

The Great Valley Fault System

The Great Valley fault zone (located approximately 47 miles to the west) is a system of generally blind, west-dipping thrust and reverse faults that are interpreted to form the structural boundary between the eastern Central Valley and Coast Ranges. The Midland Fault is the closest fault in the Great Valley Fault System to the site. Recognition and evaluation of the Great Valley fault zone as a seismic source was prompted by the 1983 Coalinga earthquake, a magnitude 6.5. The fault zone also includes the 1892 Winters-Vacaville earthquake of magnitude 6.4.

Strong Ground Motion

The project is not within an active fault zone as defined by the Alquist-Priolo Act. However, the project is in an area that is subject to ground shaking from earthquakes generated on faults associated with the Coast Ranges to the west, in particular the Hayward, San Andreas, and Greenville faults and faults of the Great Valley Fault zone, and faults to the east in the Foothills Fault system. Shaking from an earthquake can result in structural damage and can trigger other geologic hazards such as liquefaction. Ground shaking is affected by the earthquake magnitude, duration, and distance from the source. Ground conditions also will influence impacts from strong ground motions. Seismic waves attenuate with distance from their sources, so estimated bedrock accelerations are highest in areas closest to the source. Local soil conditions may amplify or dampen seismic waves as they travel from the underlying bedrock to the ground surface.

Ground motion was calculated at the existing PG&E Lockeford Substation site, proposed PG&E Thurman Switching Station site, and proposed LEU Guild Substation site, using Section 1613.3 of the 2016 California Building Code (CBC), chapters 11 and 22 of American Society of Civil Engineers (ASCE) ASCE 7-10, and the USGS seismic design maps (Burns & McDonnell 2020; Kleinfelder 2019a; Kleinfelder 2019b; CBC 2016; OSHPD 2022). The peak ground acceleration (PGA) was obtained for the ground motion with a 10% probability of being exceeded in 50 years, or a 475-year return period. The values were obtained for PG&E Thurman Switching Station at longitude -121.249 and latitude 38.129 and at PG&E Lockeford Substation at longitude -121.159 and latitude 38.118. According to available information and the calculated PGA values, the expanded PG&E Lockeford Substation site and the proposed PG&E Thurman Switching Station site are categorized as stiff soil (Class D), PGA of 0.225 units of gravity (g) and PGA of 0.249 g, respectively (Kleinfelder 2019a; Kleinfelder 2019b). The LEU Guild Substation site at longitude -121.251 and latitude 38.129 is categorized as stiff soil (Class D), PGA of 0.249 g (Burns & McDonnell 2020). This range of PGA values is considered low to moderate for the state. PGA values across California range from approximately 0.1 g to more than 1.0 g. More than three-quarters of the population of the state resides in counties with seismic hazard calculated to be greater than 0.4 g (USGS 1996).

Seismic-Induced Landslides

The project area is relatively flat (0 to 1% slope) and is distant from hills, mountains, or slopes. For these reasons, the project area is not expected to be prone to seismic-induced landslides.

5.7.1.4 Liquefaction

Liquefaction is a phenomenon in which saturated cohesionless soils, such as sand and silt, temporarily lose their strength and liquefy when subjected to dynamic forces, such as intense and prolonged ground shaking. The vast majority of liquefaction hazards are associated with sandy soils and silty soils of low plasticity (CGS 2008). To be susceptible to liquefaction, potentially liquefiable soils must be saturated or nearly saturated. In general, liquefaction hazards are most severe in saturated soils within the upper 50 feet of the ground surface. The potential for liquefaction increases with shallower groundwater.

The project site is not within a known area of liquefaction hazard (CGS 2022). Sandy and loamy soils comprise most of the soils underlying the project. The introduction of water to the project through irrigation or excessive rainfall may increase the potential for liquefaction during seismic events. Specific liquefaction hazard areas have not been identified in San Joaquin County; however, this potential exists in areas of the San Joaquin Valley where unconsolidated sediments and a high water table coincide.

At PG&E Lockeford Substation, PG&E Thurman Switching Station, and LEU Industrial and LEU Guild substations, the geotechnical reports concluded that based on the relatively dense soil types and depth to groundwater at these sites, liquefaction potential is considered negligible (Burns & McDonnell 2020; Kleinfelder 2019a; Kleinfelder 2019b).

5.7.1.5 Geologic Units

Geologic units within the project area are presented on Figure 5.7-2 (Marchand & Atwater 1979; Marchand & Bartow 1979; Dawson 2009). The following list describes geologic units from youngest to oldest:

- Pleistocene to Holocene

  Most geologic units in the project area cover the middle to late Pleistocene Epoch (approximately 2 million years ago to 11,700 years ago) and the Holocene Epoch (11,700 years ago to present). These geologic units generally are not lithified.

  - **Alluvium/Colluvium (Qu)** – Unnamed late Pleistocene or Holocene alluvium and colluvium consisting of flat, relatively undissected fan, terrace, basin deposits, and small active streams.
  - **Modesto Formation** – Late Pleistocene arkosic alluvium sand with minor gravel and silt, forming Mokelumne River alluvial fans, low terraces, and high floodplains. This formation includes the following units:

    Qm2 – Upper unit chiefly made of sand, becoming finer grained toward the fan toe, and is probably glacial outwash.

    Qm2e – Upper unit made of arkosic sand that formed low dunes on the Mokelumne River fan and in the Delta. Although it is not well sorted, this unit is probably eolian.

    Qm2f – Lower unit made of foothill-derived alluvial silt, clay, and minor sand following tributaries across lower fans. It consists of abundant volcanic detritus.

    Qm1 – Lower unit made of arkosic alluvium forming the Mokelumne River alluvial fan. It is probably glacial outwash.
  - **Riverbank Formation** – Middle to late Pleistocene arkosic alluvium sand with silt, forming terraces and alluvial fans along the Mokelumne River. Upper to lower units are as follows:

    Qr3 – Upper unit comprises arkosic alluvium forming the Mokelumne River alluvial fan. It is primarily sand and probably glacial outwash.

Qr3f – Upper unit comprises foothill-derived alluvial sand and silt. It contains abundant volcanic detritus.

Qr2 – Middle unit comprises arkosic alluvium from the middle Pleistocene period forming Mokelumne River terraces and alluvial fan. It is chiefly sand and probably glacial outwash.

Qr2f – Lower unit comprises foothill-derived alluvial sand and silt. It contains abundant volcanic detritus.

Qr1 – Presumed to be a lower unit consisting of arkosic alluvium, sand and silt, forming terraces and alluvial fans along the Mokelumne River.

- **Turlock Lake Formation (Qt1)** – Early to middle Pleistocene period arkosic alluvium, including sand with some silt and minor gravel (Dawson 2009).

- Miocene to Pliocene

  Late Miocene period (approximately 12 to 5 million years ago) and Pliocene period (approximately 5 to 2.6 million years ago) rocks are present at or near the surface on the east side of the project area.

  - **Laguna Formation (Tl)** – Pliocene period cobble gravel, sand, and minor silt of mixed metamorphic, granitic, and volcanic sources.

Soils

Soils in the project area are shown on Figure 5.7-3 (NRCS 2019). The project site surface soils are predominantly mapped as Tokay fine sandy loam, 0 to 2% slopes, and Kingdon fine sandy loam, 0 to 2% slopes. Smaller portions of the project site surface soils consist of Acampo sandy loam, 0 to 2% slopes; Archerdale very fine sandy loam, 0 to 2% slopes, overwashed; Cometa sandy loam, 2% to 5% slopes; Montpellier-Cometa complex, 5% to 8% slopes; San Joaquin loam, thick surface, 0 to 2% slopes; San Joaquin sandy loam, 2% to 5% slopes; and Tujunga loamy sand, 0 to 2% slopes. Soils of the Tokay series are present largely in the western and portions of the central segments of the project, and the Kingdon series soils are more predominant in the eastern segment and also some portions of the central segment (NRCS 2019).

Both the Kingdon and Tokay soil series consist of very deep, well-drained soils formed from granitic rock sources. They are friable, low in organic matter, slightly acidic, and have moderately rapid permeability and slow runoff. They have mixed mineralogy and are uniformly sorted with coarse particles. The hazard of water erosion is slight for soils across the project area (NRCS 2019).

Expansive soils contain significant amounts of clay that expand when wet and can cause damage to foundations if moisture collects beneath structures. According to NRCS data, Kingdon and Tokay soil series within the project site do not contain significant amounts of clay and, therefore, soil expansion is not a concern in these areas. The smaller areas of Archerdale very fine sandy loam, Cometa sandy loam, Montpellier-Cometa complex, and San Joaquin loams contain higher clay content and have high shrink-swell potential.

The project site is not within a known area of liquefaction hazard (CGS 2022).

Subsidence

Subsidence is the downward displacement of a large portion of land. Tectonic movement or subsidence occurs at a massive geologic time scale and sediment accumulation rates that would be hardly noticeable in many millennia. Areas in California, including portions of San Joaquin County, have seen subsidence related to over-pumping of groundwater. While as much as 28 feet of subsidence has occurred in portions of the San Joaquin Valley to the south and west of the project area (USGS 2018), little subsidence (during the last 6 years, the annual vertical displacement rate is calculated as -0.2 to -0.1 foot) has been reported in the eastern San Joaquin groundwater basin where the project is located (DWR 2022).

Landslides

A landslide is a mass of rock, soil, or debris that has been displaced downslope by sliding, flowing, or falling. There is a low probability for landslides in the project area because of the relatively flat (0 to 1% slope) topography and distance from hills, mountains, or slopes. While the project components span over creeks and channels, no project components are located within the slopes of those channels. The project site is not located within a known landslide hazard area, as indicated by the California Landslide Susceptibility Map prepared by CGS (CGS 2022).

Erosion

Erosion is the process by which rocks, soil, and other land materials are abraded or worn away from the Earth's surface over time. The rate of erosion depends on many factors, including soil type and geologic parent materials, slope and placement of soils, and human activity. The potential for erosion is highest in loose, unconsolidated soils. The steepness of slopes and absence of vegetation also are factors that increase the natural rates of erosion. Thus, erosion potential is high in steep, unvegetated areas, especially those disturbed by grading or other construction activities.

A soil's susceptibility to erosion varies and is a function of its characteristics, such as soil texture, soil structure, topography, amount of vegetative cover, and climate. Erosion from water mainly occurs in loose soils on moderate to steep slopes, particularly during high-intensity storm events. Erosion from wind mainly occurs in dry, loose, and finely granulated soils. Because the topography at the project site is relatively flat, erosion potential is low**.**

5.7.1.6 Paleontological Report

The paleontological resource sensitivity analysis is based on published geological mapping and the geological sensitivity of rock type. From the end of the Mesozoic Era (Upper Cretaceous Series) into the Cenozoic Era, the deep-sea basin in which the Great Valley Sequence was deposited experienced numerous periods of deposition from various transgressions (local sea level rises) and regressions (local sea level drops) along with localized depositional hiatuses and several unconformities (Bartow 1991). These marine transgressions and regressions resulted in aquatic and terrestrial depositional environments, respectively, with differing associated biota. In the Neogene and Quaternary Periods, depositional environments changed from shallow marine to nonmarine (Galloway et al. 1999), again with differing associated biota. Such geological and ecological changes through time have implications for the possible distribution of paleontological resources in the project area.

Geologic Units and Paleontological Sensitivity

Pleistocene to Holocene

Pleistocene to Holocene geologic formations represent the major Pleistocene formations of the eastern San Joaquin Valley from youngest to oldest: Modesto Formation, Riverbank Formation, and Turlock Lake Formation, as well as the more recent sediments (Qha and Qu). During the Pleistocene, also known as the Ice Age, the Central Valley was teeming with animals. Late Ice Age fauna is known as the Rancholabrean Land Mammal stage. This group includes herbivores such as mammoth, mastodon, camels, bison, llamas, elk, and horses, as well as predators such as the short-faced bear, saber-tooth cat, scimitar cat, dire wolf, and California lion. Middle and early Ice Age fauna is known as the Irvingtonian Land Mammal stage, which includes mammoths, mastodons, and other members of the elephant family; horses; bone-crushing dogs; hyenas; wolves; saber-toothed cats; and bears. Fossils representing both of these faunas have been found in the San Joaquin Valley.

Alluvium/Colluvium

The alluvium/colluvium represents unnamed Holocene and possibly latest Pleistocene sediment. This formation is widespread across the state of California. It consists of unconsolidated sediment that is generally considered too young to produce significant fossils. Occasionally, significant vertebrate fossils are found in this sediment because it is older than previously thought or because older layers lie close to

the surface (Maguire & Holroyd 2016). For this assessment, no fossil localities were found within this type of sediment within approximately 9 miles of the project area.

Modesto Formation

The Modesto Formation geologic units are the youngest Pleistocene geologic units in the project area. They are thought to date to the late Ice Age, or the Rancholabrean Land Mammal Age. Modesto Formation sediments are fluvial and, under some circumstances, have been fossiliferous. Fossils are occasionally found in sediment attributed to the Modesto Formation, primarily along major rivers and first order streams.

Eleven fossil localities are attributed to the Modesto Formation in the UCMP database. Only three of these fossil localities are in San Joaquin County. All three of these were found during an expansion of SR 99, approximately 30 miles south of the project area in the City of Stockton (UCMP #s V2016003, V2016004, and V2016005). In addition, fossils discovered approximately 9 to 11 miles southwest of the project area, in the Lincoln Village neighborhood of Stockton, were not attributed to any formation in the UCMP database but were found in sediment mapped as Modesto Formation at the surface. However, in general, many fossil localities that have been attributed to Modesto Formation actually are more likely to be part of the upper Riverbank Formation, which lies just below the Modesto Formation.

Riverbank Formation

The Riverbank Formation geologic units date from about 450,000 years ago to 150,000 years ago, covering the late Irvingtonian Land Mammal Age as well as the early- and mid-Rancholabrean Land Mammal Age (Dundas et al. 1996). The Riverbank Formation has yielded early Rancholabrean and late Irvingtonian mammalian fossils, including the extinct North American camel (*Camelops*), mammoth (*Mammuthus*), ground sloth (*Megalonyx*), and bison (*Bison*). Many fossil localities that have been attributed to the Modesto Formation have been revealed under scrutiny to actually be from the upper Riverbank Formation. The fossiliferous Riverbank Formation layer is a compound soil with a strongly gleyed (green-gray-blue wetland soil) horizon with a discontinuous hardpan composed of caliche (calcium carbonate cementing the fine-grained alluvium). Similarly, fossil localities attributed to the Riverbank Formation sometimes have been found to be part of the Turlock Lake Formation (Dundas & Chatters 2013). However, no fossil localities in the Riverbank Formation were found for this assessment within 7 miles of the project area.

Turlock Lake Formation

The Turlock Lake Formation is an early- to mid-Pleistocene geologic unit that corresponds to the Irvingtonian Land Mammal Age, a period not well represented in the fossil record. Since 1993, thousands of vertebrate fossils have been found in the Turlock Lake Formation approximately 20 miles southeast of the project area at Fairmead Landfill in the City of Chowchilla (Dundas & Chatters 2013). Fossils from more than 72 taxa were found. A museum, the Madera County Fossil Discovery Center, was built to house them. It has since been reported that fossils had been discovered periodically by heavy equipment operators since the opening of the landfill (Dundas & Chatters 2013).

Fairmead Landfill fossils were found in the upper unit of the Turlock Lake Formation in a large deposit of greenish clay a half-meter thick. The discovery occurred at 40 feet below ground surface (bgs), under approximately 30 feet of Riverbank Formation sediment, including the middle and upper unit. The fossils were found in the first 10 feet of Turlock Lake Formation sediment.

Outside of the Fairmead Landfill discovery, fossil discoveries in the Turlock Lake Formation seem to be limited. Although there is evidence that some Turlock Lake Formation fossils, including the Fairmead Landfill site, are mistakenly attributed to Riverbank Formation in UCMP (Dundas et al. 1996; Dundas & Chatters 2013), no other vertebrate fossil localities in the Turlock Lake Formation were found for this assessment. Several plant fossil localities are attributed to Turlock Lake Formation but all are in eastern Fresno County approximately 120 miles from the project area (UCMP 2022).

Laguna Formation

The Laguna Formation is a Pliocene period formation dating from 5 to 2.6 million years ago described in detail in Marchand and Allwardt (1981). No fossil localities are attributed to Laguna Formation in UCMP (UCMP 2022). For this assessment, no other evidence was found that the Laguna Formation is fossiliferous.

Paleontological Survey Results

The project area extends approximately 9 miles from the east side of the City of Lodi across unincorporated San Joaquin County farmland. This area lies within the Great Valley physiographic province of California (also known as the Central Valley), a relatively flat alluvial plain approximately 400 miles long and approximately 50 miles wide. The Central Valley is a structural trough or basin in which sediments have been accumulating since the Jurassic Period (about 160 million years ago). The project area is within the San Joaquin Valley (the southern half of the Central Valley), just south of the Mokelumne River, a major waterway that flows from the central Sierra Nevada Range into the Sacramento-San Joaquin River Delta. The closest project alignment to the Mokelumne River is approximately 1 mile south of its current channel. Bear Creek, a tributary of the Mokelumne River, flows through the project area. The project area is mostly farmland dedicated to row crops, except for the western end, which is within an industrial zone of the City of Lodi.

Institutional records searches and scientific literature review were performed for the project area and surrounding areas (Earthview Science 2022). No records of fossils or documented fossil collection localities were found within the project area or within approximately 1 mile of the project area.

Because there is potential to encounter geologic units of greater sensitivity at depth and potential – although relatively low – for unanticipated fossil discovery in geologic units determined to be of low to moderate sensitivity, APMs and BMPs are recommended in the following sections. Table 5.7-1 summarizes the paleontological sensitivity of the geologic units in and around the project area.

Table 5.7-1. Paleontological Sensitivity of Geologic Units in and Around the Project Corridor

Geologic Age at Surface	Geologic Unit	Paleontological Sensitivity – PFYC Category	Basis for Sensitivity Rating
Pleistocene to Holocene	Qha – Alluvium (Holocene)	2: low	Holocene age sediment is generally considered too young to contain scientifically significant fossils.
	Qu – Alluvium/Colluvium (Holocene/Pleistocene)	2: low	Qu sediment represents Holocene and latest Pleistocene periods. Significant fossils are found occasionally in Qu sediment. However, this geologic unit is relatively widespread at the surface in the San Joaquin Valley and no fossil localities attributed to this unit were found within approximately 7 miles of the project area. Qu is considered to be of low sensitivity.
	Qm_2 – Modesto Formation (Pleistocene)	2 to 3: low to moderate	The Modesto Formation is the uppermost Pleistocene geologic unit in the project area. Significant fossils are found only occasionally in Modesto Formation. However, at anticipated project excavation depths of 30 feet or more, encountering the upper Riverbank Formation (below the Modesto Formation) is likely because it lies below the Modesto Formation. The Riverbank Formation has moderate sensitivity.
	Qm_2e – Modesto Formation (Pleistocene)		
	Qm_2f – Modesto Formation (Pleistocene)		
	Qm_1 – Modesto Formation (Pleistocene)		

Geologic Age at Surface	Geologic Unit	Paleontological Sensitivity – PFYC Category	Basis for Sensitivity Rating
	Qr_3 – Upper Riverbank Formation (Pleistocene)	3: moderate	Riverbank Formation has yielded significant vertebrate fossils of early Rancholabrean or late Irvingtonian age. However, no fossil localities in Riverbank Formation were found for this assessment within approximately 7 miles of the project area. Overall, scientifically significant fossils occur in this formation intermittently and with low predictability outside of major river channels. The Riverbank Formation is determined to have moderate sensitivity.
	Qr_3f – Upper Riverbank Formation (Pleistocene)		
	Qr_2f – Middle Riverbank Formation (Pleistocene)		
	Qr_2 – Lower Riverbank Formation (Pleistocene)		
	Qr_1 – Lower Riverbank Formation (Pleistocene)		
Miocene to Pliocene	Tl – Laguna Formation (Pliocene)	2: low	This formation is not known to be fossiliferous. Accordingly, sensitivity is determined to be low.

PFYC = potential fossil yield classification

5.7.2 Regulatory Setting

5.7.2.1 Federal

Earthquake Hazards Reduction Act of 1977

The Earthquake Hazards Reduction Act of 1977 is a law formulating a national policy to diminish the dangers of earthquakes in the United States. The Earthquake Hazards Program is part of the USGS Natural Hazards Mission Area and is the USGS component of the multi-agency National Earthquake Hazards Reduction Program (NEHRP), established by Congress in 1977. The USGS Advanced National Seismic System was established by Congress as an NEHRP facility. The NEHRP agencies pursue the goals of the program through collaboration with each other and numerous partners. In addition to other federal agencies, program partners include state and local governments, universities, research centers, professional societies, trade associations and businesses, as well as associated councils, commissions, and consortia. NEHRP's work encompasses research, development, and implementation activities. Program research helps to advance understanding of why and how earthquakes occur and impact the natural and built environments. The program develops strategies, tools, techniques, and other measures that can reduce the adverse effects of earthquakes and also facilitates and promotes implementation of these measures, thereby strengthening earthquake resilience among at-risk communities.

Antiquities Act of 1906

The Antiquities Act of 1906 (Title 16, USC, Sections 431–433) was enacted with the primary goal of protecting cultural resources in the U.S. This act explicitly prohibits appropriation, excavation, injury, and destruction of any historic or prehistoric ruin or monument, or any "object of antiquity" located on lands owned or controlled by the federal government, without prior permission of the secretary of the federal department that has jurisdiction over the site. The act also establishes criminal penalties, including fines and imprisonment, for these acts. The Antiquities Act contains a requirement for studies by qualified experts in the subject matter and contains precise stipulations regarding the management/curation of collected materials. Although the Antiquities Act itself and its implementing regulation (43 CFR Section 3) do not specifically mention paleontological resources, "objects of antiquity" have been interpreted to include paleontological resources by the NPS, the Bureau of Land Management (BLM), the U.S. Forest Service (USFS), and other federal agencies.

National Environmental Policy Act

NEPA, as amended (Pub. L. 91-190, 42 USC 4321-4347, January 1, 1970, as amended by Pub. L. 94-52, July 3, 1975, Pub. L. 94-83, August 9, 1975, and Pub. L. 97-258 Section 4(b), September 13, 1982), recognizes the continuing responsibility of the federal government to "preserve important historic, cultural, and natural aspects of our national heritage..." (Sec. 101 [42 USC Section 4321]). This can be interpreted to refer to paleontological as well as cultural resources. When not on federal lands, requiring paleontological analysis under NEPA is at the discretion of the lead federal agency.

Paleontological Resources Preservation, Omnibus Public Lands Act

The Omnibus Public Lands Act (Public Law 111-011, Title VI, Subtitle D) (OPLA-PRP 2009) is legislation directing the Secretaries of the Interior and Agriculture to manage and protect paleontological resources on federal land using scientific principles and expertise. OPLA-PRP incorporates most of the recommendations of the report of the Secretary of the Interior entitled "Assessment of Fossil Management on Federal and Indian Lands" (2000) to formulate a consistent paleontological resources management framework. In passing the OPLA-PRP, Congress officially recognized the scientific importance of paleontological resources on some federal lands by declaring that fossils from these lands are federal property that must be preserved and protected. The OPLA-PRP codifies existing policies of the BLM, NPS, USFS, U.S. Bureau of Reclamation, and USFWS, and provides the following:

- Uniform criminal and civil penalties for illegal sale and transport, and theft and vandalism of fossils from federal lands
- Uniform minimum requirements for paleontological resource-use permit issuance (terms, conditions, and qualifications of applicants)
- Uniform definitions for "paleontological resources" and "casual collecting"
- Uniform requirements for curation of federal fossils in approved repositories

There are federal legislative protections for scientifically significant fossils for projects that take place on federal lands (with certain exceptions such as the Department of Defense). If any portion of the project occurs on federally managed lands (for example, BLM lands), federal protections for paleontological resources on those lands apply under NEPA, the Federal Land Policy and Management Act of 1976, and OPLA-PRP.

5.7.2.2 State

Alquist-Priolo Earthquake Fault Zoning Act

California enacted the Alquist-Priolo Special Studies Zones Act in 1972, which was renamed the Alquist-Priolo Earthquake Fault Zoning Act in 1994, which regulates development and construction of buildings intended for human occupancy to avoid the hazard of surface fault rupture. Also known as the Alquist-Priolo Act, it requires the establishment of "earthquake fault zones" along known active faults in California. Regulations on development within these zones are enforced to reduce the potential for damage resulting from fault displacement. The proposed project is not within an Alquist-Priolo earthquake fault zone and does not involve a structure for human occupancy; therefore, it is not subject to the requirements of this act. Information on earthquake fault zones is provided for public information purposes (refer to Section 5.7.1.3, Seismic Hazards, for further discussion).

California Public Resources Code

The state of California PRC (Chapter 1.7), Sections 5097.5 and 30244, includes additional state-level requirements for the assessment and management of paleontological resources. These statutes require reasonable mitigation of adverse impacts to paleontological resources resulting from development on state lands, define the removal of paleontological sites or features from state lands as a misdemeanor, and prohibit the removal of any paleontological site or feature from state land without permission of the applicable jurisdictional agency. Section 30244 requires reasonable mitigation for impacts on

paleontological resources that occur as a result of development on public lands. Further, California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act (SHMA) of 1990 addresses earthquake hazards other than fault rupture, including liquefaction and seismically induced landslides. Seismic hazard zones are to be mapped by the State Geologist to assist local governments in land use planning. The SHMA states that, "it is necessary to identify and map seismic hazard zones in order for cities and counties to adequately prepare the safety element of their general plans and to encourage land use management policies and regulations to reduce and mitigate those hazards to protect public health and safety."

California Building Standards Code

The California Building Standards Commission is responsible for coordinating, managing, adopting, and approving building codes in California. The state of California provides minimum standards for building design through the 2022 CBC (CCR, Title 24). Chapter 18 of the CBC regulates the excavation of building foundations and retaining walls and specifies required geological reports. Appendix J of the 2022 CBC regulates grading activities, including drainage and erosion control and construction on unstable soils, such as expansive soils and areas subject to liquefaction.

5.7.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

Although PG&E is not subject to local discretionary permitting, ministerial permits will be secured, as required. Table 3.10-1 in Chapter 3 of this PEA lists the authorizations that may be required for project construction.

The City of Lodi is a local agency and must comply with its own local plans and policies.

General plans of the City of Lodi and San Joaquin County were reviewed for provisions relevant to geology/soils and paleontological resources (City of Lodi 2010; San Joaquin County 2016). No provisions were found for San Joaquin County for paleontological resources. Relevant provisions in the general plans include the following:

City of Lodi General Plan Policy S-P18. Ensure that all public facilities, such as buildings, water tanks, underground utilities, and berms, are structurally sound and able to withstand seismic activity.

City of Lodi General Plan Policy S-P20. Require soils reports for new projects and use the information to determine appropriate permitting requirements, if deemed necessary.

City of Lodi General Plan Policy S-P21. Require that geotechnical investigations be prepared for all proposed critical structures (such as police stations, fire stations, emergency equipment, storage buildings, water towers, wastewater lift stations, electrical substations, fuel storage facilities, large public assembly buildings, designated emergency shelters, and buildings three or more stories high) before construction or approval of building permits, if deemed necessary. The investigation shall include estimation of the maximum credible earthquake, maximum ground acceleration, duration, and the potential for ground failure because of liquefaction or differential settling.

City of Lodi General Plan Policy C-P18. In the event that archaeological/paleontological resources are discovered during site excavation, the City shall require that grading and construction work on the project site be suspended until the significance of the features can be determined by a qualified archaeologist/paleontologist. The City will require that a qualified archaeologist/paleontologist make recommendations for measures necessary to protect any site determined to contain or constitute an historical resource, a unique archaeological resource, or a unique paleontological resource or to undertake

data recovery, excavation, analysis, and curation of archaeologist/paleontologist materials. City staff shall consider such recommendations and implement them where they are feasible in light of project design as previously approved by the City.

San Joaquin County General Plan Policy PHS-3.2. The County shall not approve any of the following land uses if they are located within one-eighth of a mile of any active fault or on soil that is highly susceptible to liquefaction: facilities necessary for emergency services; major utility lines and facilities; manufacturing plants using or storing hazardous materials; high occupancy structures, such as multifamily residences and large public assembly facilities; and facilities housing dependent populations, such as prisons, schools, and convalescent centers.

San Joaquin County General Plan Policy PHS-3.4. The County shall require proposals for new development in areas determined by the County to have high liquefaction potential to include detailed site-specific liquefaction studies.

San Joaquin County General Plan Policy PHS-3.5. The County shall require that all proposed structures, utilities, or public facilities within County-recognized areas of near-surface subsidence or liquefaction be located and constructed in a manner that minimizes or eliminates potential damage.

5.7.3 Impact Questions

The project's potential effects on geology, soils, and paleontological resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.7-2 and discussed in more detail in Section 5.7.4.

Project impacts on paleontological resources were evaluated based on an assessment of the paleontological sensitivity of identified geologic formations in relation to the proposed project activities. In accordance with Appendix G of the CEQA Guidelines, project impacts on paleontological resources were considered significant if the project would directly or indirectly destroy a unique paleontological resource or site. Sensitivity ratings were used to assess the likelihood and severity of project impacts. The sensitivity ratings provided in Table 5.7-1, which combine a number of relevant considerations, are measured in light of the nature of subsurface disturbance associated with the project, and the significance of impacts is determined based on that information.

Table 5.7-2. CEQA Checklist for Geology, Soils, and Paleontological Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?	☐	☐	☐	☒
ii Strong seismic ground shaking?	☐	☐	☒	☐
iii Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv Landslides?	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit of soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

5.7.3.1 Additional CEQA Impact Questions

None.

5.7.4 Potential Impact Analysis

Project impacts related to geology, soils, and paleontological resources were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.7.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on geology, soils, and paleontological resources were evaluated for each of the criteria listed in Table 5.7-2, as discussed in Section 5.7.4.

5.7.4.2 Applicant-Proposed Measures and Best Management Practices

APM GEO-1: Appropriate PG&E Design Measures Implementation. Based on available references, sands and loamy sands are the primary soil types expected to be encountered in the graded and excavated areas as project construction proceeds. Potentially problematic subsurface conditions may include soft or loose soils. Where soft or loose soils are encountered during design studies or construction on PG&E facilities, appropriate measures will be implemented to avoid, accommodate, replace, or improve soft or loose soils encountered during construction. Such measures may include the following:

- Locating construction facilities and operation away from areas of soft and loose soil.
- Overexcavating soft or loose soils and replacing them with nonexpansive engineered fill.
- Increasing the density and strength of soft or loose soils through mechanical vibration and compaction.
- Treating soft or loose soils in place with binding or cementing agents.

Construction activities in areas where soft or loose soils are encountered may be scheduled for the dry season, as necessary, to allow safe and reliable equipment access.

BMP GEO-1: Appropriate LEU Design Measures Implementation. Based on available references, sands and loamy sands are the primary soil types expected to be encountered in the graded and excavated areas as project construction proceeds. Potentially problematic subsurface conditions may include soft or loose soils. Where soft or loose soils are encountered during design studies or construction on LEU facilities, appropriate measures will be implemented to avoid, accommodate, replace, or improve soft or loose soils encountered during construction. Such measures may include the following:

- Locating construction facilities and operation away from areas of soft and loose soil.
- Overexcavating soft or loose soils and replacing them with nonexpansive engineered fill.
- Increasing the density and strength of soft or loose soils through mechanical vibration and compaction.
- Treating soft or loose soils in place with binding or cementing agents.

Construction activities in areas where soft or loose soils are encountered may be scheduled for the dry season, as necessary, to allow safe and reliable equipment access.

APM PAL–1: Retain a PG&E Qualified Paleontological Principal Investigator. A PG&E Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all APMs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.

BMP PAL–1: Retain an LEU Qualified Paleontological Principal Investigator. An LEU Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all BMPs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.

APM PAL–2: PG&E Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all PG&E work locations. It may be provided by the PG&E project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved
- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

BMP PAL–2: LEU Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all LEU work locations. It may be provided by the LEU project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved
- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

APM PAL-3: Paleontological Resource Monitoring for Select PG&E Construction Activities. A paleontological monitor will be present to monitor for paleontological resources in areas where Riverbank formation or Turlock Lake formation occurs at the surface and excavation is greater than 3 feet deep and, for excavations involving drilling or augering, uses a drill diameter that is larger than 3 feet. The paleontological monitor will be able to: (1) recognize fossils and paleontological deposits, and deposits that may be paleontologically sensitive; (2) take accurate and detailed field notes, photographs, and locality coordinates; and (3) document project-related ground-disturbing activities, their locations, and other relevant information, including a photographic record.

BMP PAL-3: Paleontological Resource Monitoring for Select LEU Construction Activities. A paleontological monitor will be present to monitor for paleontological resources in areas where Riverbank formation occurs at the surface and excavation is greater than 3 feet deep and, for excavations involving drilling or augering, uses a drill diameter that is larger than 3 feet. The paleontological monitor will be able to: (1) recognize fossils and paleontological deposits, and deposits that may be paleontologically sensitive; (2) take accurate and detailed field notes, photographs, and locality coordinates; and (3) document project-related ground-disturbing activities, their locations, and other relevant information, including a photographic record.

APM PAL–4: PG&E Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during PG&E's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and Cultural Resources Specialist (CRS) immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for a PG&E Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, PG&E will implement measures to protect and document the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and CRS.
- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing, or increasing, the amount of monitoring required.

BMP PAL–4: LEU Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during LEU's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and LEU Cultural Resource Lead immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for an LEU Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, LEU will implement measures to protect and document

the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and LEU Cultural Resource Lead.

- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing, or increasing, the amount of monitoring required.

5.7.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? *No Impact*.

PG&E Potential Impact Discussion

No known sufficiently active faults underlie the PG&E project components. Additionally, PG&E structures being modified or constructed are not intended for human occupancy; therefore, the project would not expose people or structures to potential substantial adverse effects from rupture of a known fault during either construction or operation and maintenance of PG&E's project components. As a result, there is no impact.

LEU Potential Impact Discussion

No known sufficiently active faults underlie the LEU project components. Additionally, LEU structures being modified or constructed are not intended for human occupancy; therefore, the project would not expose people or structures to potential substantial adverse effects from rupture of a known fault during either construction or operation and maintenance of LEU project components. As a result, there is no impact.

ii) Strong seismic ground shaking? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

PG&E's project components are not located in proximity to any active faults. The nearest faults mapped by the CGS as active are the Greenville Fault (located approximately 40 miles to the southwest), Calaveras Fault (located approximately 50 miles to the southwest), Hayward Fault (located approximately 60 miles to the southwest), and San Andreas Fault zone (located approximately 80 miles to the southwest). The nearest faults of major historical significance are the San Andreas Fault, which passes within approximately 80 miles of the project area, and the associated Hayward Fault, which passes within approximately 60 miles southwest of the project area. It is unlikely that PG&E project components would be exposed to a moderate or greater earthquake during their operational life, and that the earthquake will be centered close enough to the project to produce strong ground shaking in the project area. PG&E's project components would be engineered to meet loads generated by wind, ice, broken conductors, and other sources of shaking, and will not increase the risk of loss, injury, or death from strong seismic ground shaking. Project work at PG&E remote-end substations and the repeater station will remove equipment or make minor modifications to equipment on existing structures. Therefore, the impact will be less than significant.

LEU Potential Impact Discussion

LEU's project components are not located in proximity to any active faults. The nearest faults mapped by CGS as active are the Greenville Fault (located approximately 40 miles to the southwest), Calaveras Fault (located approximately 50 miles to the southwest), Hayward Fault (located approximately 60 miles to the southwest), and San Andreas Fault zone (located approximately 80 miles to the southwest). The nearest faults of major historical significance are the San Andreas Fault, which passes within approximately 80 miles of the project area, and the associated Hayward Fault, which passes within approximately 60 miles southwest of the project area. It is unlikely that the LEU project components will be exposed to a moderate or greater earthquake during their operational life, and that the earthquake will be centered close enough to the LEU substations to produce strong ground shaking in the project area. The proposed new LEU project components will be engineered to meet loads generated by wind, ice, broken conductors, and other sources of shaking, and will not increase the risk of loss, injury, or death from strong seismic ground shaking. Therefore, the impact will be less than significant.

iii) Seismic-related ground failure, including liquefaction? ***Less-than-Significant Impact.***

PG&E Potential Impact Discussion

As described previously, the closest known active fault is located approximately 37 miles from the project area, including PG&E project components. No known liquefaction hazard areas have been identified in the vicinity of PG&E project components; however, this potential exists in areas of the San Joaquin Valley where unconsolidated sediments and a high water table coincide. In general, liquefaction hazards are most severe in saturated soils within the upper 40 feet of the ground surface. At PG&E Lockeford Substation and PG&E Thurman Switching Station, the geotechnical investigation concluded that the potential for liquefaction is characterized as negligible. The majority of soils are sandy and loamy along the proposed PG&E transmission line route. There is potential for introduction of water to the PG&E transmission line work areas through irrigation or excessive rainfall, which could increase the potential for liquefaction. While these conditions are unlikely to occur within the PG&E transmission line route, the project would implement APM GEO-1, which will minimize liquefaction hazards that could be exacerbated by strong seismic ground shaking. The project impact would be less than significant.

LEU Potential Impact Discussion

As described previously, the closest known active fault is located approximately 37 miles from the project area, including LEU project components. Specific liquefaction hazard areas have not been identified in the vicinity of LEU project components; however, this potential exists in areas of the San Joaquin Valley where unconsolidated sediments and a high water table coincide. In general, liquefaction hazards are most severe in saturated soils within the upper 40 feet of the ground surface. At LEU Industrial and LEU Guild substations, the geotechnical investigation concluded that the potential for liquefaction is characterized as negligible. While saturated soil conditions are unlikely to occur at the LEU substations, the project would

implement BMP GEO-1, which will minimize liquefaction hazards that could be exacerbated by strong seismic ground shaking. The project impact would be less than significant.

iv) Landslides? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

With the exception of creeks and unlined irrigation channel crossings, PG&E project components are located on either level ground or slopes of less than 2%. No mapped landslide hazard areas exist within or adjacent to the PG&E project components. Therefore, the impact will be less than significant.

LEU Potential Impact Discussion

LEU's project components are located on level ground or slopes of less than 2%. No mapped landslide hazard areas exist within or adjacent to the LEU project components. Therefore, the impact will be less than significant.

b) Would the project result in substantial soil erosion or the loss of topsoil? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

During construction, grading activities will be conducted at the new PG&E Thurman Switching Station, the expanded PG&E Lockeford Substation, and specific areas along the PG&E transmission line route to create temporary work areas or a level structure area. Minimal grading and vegetation clearing may be required for transmission line structure installation, pull and tension site development, and creation of temporary access routes. Construction sites will be accessed using existing paved and unpaved access roads, new temporary unpaved access roads, and unpaved overland routes. Best practices will be implemented to minimize and avoid surface runoff, erosion, and pollution and to control dust. Stockpiles will be located away from or downgradient of waterways, in accordance with the PG&E SWPPP that will be prepared for the PG&E project components. Sediment control measures will be implemented to manage temporary stockpiles, as described in Section 5.10.

Erosion and loss of topsoil during construction of PG&E project components would be minimized because of the limited areas that will be graded and disturbed, the temporary nature of construction, the relatively flat work areas, and the use of standard best practices and dust control measures to minimize fugitive dust emissions and stormwater runoff, as described in Sections 5.2 and 5.10. Topsoil removed during PG&E construction activities in agricultural areas would be stockpiled onsite and replaced during site restoration as described in APM AGR-1 (Section 5.2). The project also would implement APM GEO-1 and APM HYD-1 (Section 5.10), which requires development and implementation of an SWPPP. If project work at PG&E remote-end substations includes ground disturbance to remove retired telecommunication equipment, the work areas will be included in the SWPPP. The project impacts would be less than significant.

LEU Potential Impact Discussion

During construction, grading activities will be conducted at the LEU Guild and LEU Industrial substations. Construction sites will be accessed using existing paved and unpaved access roads, new temporary unpaved access roads, and unpaved overland routes. Measures will be implemented to minimize and avoid surface runoff, erosion, and pollution and to control dust. Stockpiles will be located away from or downgradient of waterways, in accordance with the LEU SWPPP that will be prepared for the LEU project components. Sediment control measures will be implemented to manage temporary stockpiles, as described in Section 5.10.

Erosion and loss of topsoil during construction of LEU project components would be minimized because of the limited areas that will be graded and disturbed, the temporary nature of the construction, the relatively flat work areas, and the use of standard best practices and dust control measures to minimize fugitive dust emissions and stormwater runoff, as described in Sections 5.2 and 5.10. The project also would implement BMP GEO-1 and BMP HYD-1 (Section 5.10), which requires development and implementation of an SWPPP. The project impacts would be less than significant.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Based on a review of topographic maps, the PG&E transmission line route is located either on level ground or on slopes of less than approximately 2%. No mapped landslide hazard areas exist, either within or adjacent to the PG&E project components. Based on a review of NRCS soil survey data, the project will be constructed in stable soils. NRCS does not indicate that any soils of low bearing strength exist along the PG&E transmission line alignment. No geotechnical requirements are needed, but PG&E would implement APM GEO-1 and apply appropriate design measures as identified in the geotechnical reports based on soil type. At PG&E Lockeford Substation and PG&E Thurman Switching Station, construction in localized areas of soft soils will occur only following the use of compacted fill material or binding agents, grading will be designed to limit the potential for slope instability, and slopes affected by construction activities will be monitored and maintained in a stable condition. Installation of required new equipment at PG&E remote-end substations and the repeater station will not include ground disturbance. Therefore, the impact will be less than significant.

LEU Potential Impact Discussion

LEU's project components are located on level ground with minimal slopes. No mapped landslide hazard areas exist, either within or adjacent to the LEU project components. Based on a review of NRCS soil survey data, the project will be constructed in stable soils. NRCS does not indicate that any soils of low bearing strength exist at the LEU project components. No geotechnical requirements are needed, but LEU would implement BMP GEO-1 and apply appropriate design measures as identified in the geotechnical report based on soil type. Construction of LEU project components in localized areas of soft soils will occur only following the use of compacted fill material or binding agents, grading will be designed to limit the potential for slope instability, and any slopes affected by construction activities will be monitored and maintained in a stable condition. Therefore, the impact will be less than significant.

d) Would the project be located on expansive soil, as defined in Table 18-1 of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Based on a review of NRCS soil survey data for the project area, significant expansive soils were not identified in the vicinity of most PG&E project components. Soils in the project area primarily consist of sandy loam, with lesser amounts of gravelly loam and clay. These soil types are located underneath PG&E Thurman Switching Station and the connecting 12 kV secondary station service, the PG&E transmission line alignment, the PG&E reconfigured 60 kV lines, and PG&E Lockeford Substation.

Expansive or collapsible soils are not expected to have a significant adverse impact because PG&E TSPs will be installed to depths of approximately 18 to 30 feet, and the grounding wells installations at PG&E Thurman Switching Station are expected to reach a depth up to 100 feet, which will prevent shifting as a result of soil expansion or collapse. Standard construction practices that are compliant with uniform building codes will be used to address hazardous soil conditions, if encountered (for example, compact soil at pole sites or wet sandy soils during augering). PG&E will implement APM GEO-1 and apply appropriate design measures based on soil type. Installation of required new equipment at PG&E remote-end substations and the repeater station will not include ground disturbance. Impacts would be less than significant.

LEU Potential Impact Discussion

Based on a review of NRCS soil survey data for the project area, significant expansive soils were not identified in the vicinity of LEU project components. Soils in the project area primarily consist of sandy

loam, with lesser amounts of gravelly loam and clay. These soil types are located underneath the existing LEU Industrial Substation and the proposed LEU Guild Substation.

Standard construction practices that are compliant with uniform building codes will be used to address hazardous soil conditions, if encountered. LEU would implement BMP GEO-1 and apply appropriate design measures based on soil type. Impacts would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? *No Impact.*

PG&E Potential Impact Discussion

The project does not include a waste disposal system; therefore, no impact will occur.

LEU Potential Impact Discussion

The project does not include a waste disposal system; therefore, no impact will occur.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The project does not occur near or on a unique geologic feature. Installation of required new equipment at PG&E remote-end substations and the repeater station will not include ground disturbance. Potential footing removal of retired remote-end telecommunication equipment will likely be no more than approximately 4 feet of excavation and will occur within the station fence line where the area was previously disturbed to install the footings. No impact is expected to occur.

PG&E Thurman Switching Station and PG&E Lockeford Substation would be constructed or modified on sediment with moderate paleontological sensitivity. The western half of the PG&E transmission line alignment would be constructed on sediment that has been determined to have low to moderate paleontological sensitivity. The eastern half of the PG&E transmission alignment would be constructed on sediment that is determined to have moderate sensitivity. None of the proposed PG&E project components would be constructed on geologic units of high paleontological sensitivity according to surface mapping.

However, there is potential to encounter geologic units of greater sensitivity at depth and potential – although relatively low – for unanticipated fossil discovery in geologic units determined to be of low to moderate sensitivity. Impacts to paleontological resources could occur when earthwork activities, such as grading and excavation, disturb geological deposits or formations within which fossils are buried.

Six stratigraphic units that are moderately sensitive for paleontological resources (Turlock Lake Formation and Riverbank Formation) occur where PG&E Lockeford Substation would be expanded, PG&E Rio Oso-Lockeford structure would be relocated, and where new PG&E 230 kV structures would be installed between PG&E Lockeford Substation and PG&E Brighton-Bellota line. Three stratigraphic units with low to moderate paleontological sensitivity (Modesto Formation) are located in the project area west of PG&E Lockeford Substation and with the City of Lodi.

Excavations for PG&E TSPs and station foundations have the highest likelihood of potentially encountering intact and significant paleontological resources because of the relatively large-scale dimensions of ground disturbance in comparison to other types of project-related effects. Typical excavations for line and station structure foundations are expected to range from approximately 18 to 30 feet in depth. Replaced PG&E power poles would be direct buried to approximately 12.5 feet and PG&E extended 12 kV service line would be installed to approximately at least 15 feet bgs when crossing under the railroad tracks. Both excavations are unlikely to encounter intact and significant paleontological resources at that depth in the area with low to moderate sensitivity. Therefore, during excavation for structure foundations, the project could inadvertently unearth and destroy unknown (that is, not yet

recorded) buried paleontological resources that cannot be identified through noninvasive field surveys. A paleontological monitor will be present during excavation greater than 3 feet deep where Riverbank Formation occurs at the surface, as described in APM PAL-3.

Drilling at PG&E TSP structure locations, and PG&E Lockeford Substation and PG&E Thurman Switching Station foundation locations, has a moderate likelihood of revealing intact and significant paleontological resources, depending on the diameter of the drill bit. While some paleontological resources, if present, may become pulverized by the drill bit, a large-diameter drill bit may allow others to survive intact, and these may be discernible within spoils piles. While shallow surface contouring is much less likely to yield significant paleontological resources than excavations for PG&E TSP or station foundations, any fossils, if present, are more likely to survive intact than during drilling. The grounding wells installations at PG&E Thurman Switching Station are expected to reach a depth up to approximately 100 feet. The Riverbank Formation, which has moderate sensitivity for paleontological resources, is expected to begin at depths of approximately 30 feet at this location. A paleontological monitor will be present to monitor for paleontological resources where excavations involving drilling or augering uses a drill diameter that is larger than 3 feet, as described in APM PAL-3. No measures are recommended for drilling/augering excavation with a drill that is 3 feet or less in diameter.

Impacts to paleontological resources resulting from construction of the PG&E project components will be less than significant. The implementation of APM PAL-1 through APM PAL-4, which requires a qualified Paleontological Principal Investigator, worker environmental awareness training, and recovery of paleontological resources, with further reduce potential less-than-significant impacts.

LEU Potential Impact Discussion

The project does not occur near or on a unique geologic feature. LEU Guild and LEU Industrial substations would be constructed or modified on sediment with moderate paleontological sensitivity. None of the proposed LEU project components would be constructed on geologic units of high paleontological sensitivity according to surface mapping.

However, there is potential to encounter geologic units of greater sensitivity at depth and potential – although relatively low – for unanticipated fossil discovery in geologic units determined to be of low to moderate sensitivity. Impacts to paleontological resources could occur when earthwork activities, such as grading and excavation, disturb geological deposits or formations within which fossils are buried.

Construction of LEU project components will result in subsurface disturbance affecting one stratigraphic unit with low to moderate paleontological sensitivity (Modesto Formation).

Excavations for LEU Guild Substation have the highest likelihood of potentially encountering intact and significant paleontological resources because of the relatively large-scale dimensions of ground disturbance. The deepest expected excavations for LEU Guild Substation would be to install two dead-end structure piers to an approximate 16-foot depth. Within LEU Industrial Substation, the deepest expected excavation will be to approximately 20 feet bgs for the two new LEU 60 kV monopoles drilled pier foundations. The existing LEU 12 kV feeder line would be installed between approximately 4 and 10 feet bgs. During excavation for substation foundations, while unlikely, the project could inadvertently unearth and destroy unknown (that is, not yet recorded) buried paleontological resources that cannot be identified through noninvasive field surveys. The LEU portion of the project is not in areas where Riverbank formation occurs at the surface.

Impacts to paleontological resources resulting from construction of the PG&E project components will be less than significant. The implementation of BMP PAL-1, BMP PAL-2, and APM PAL-4, which requires a qualified Paleontological Principal Investigator, worker environmental awareness training, and recovery of paleontological resources, with further reduce potential less-than-significant impacts.

5.8 Greenhouse Gas Emissions

This section discusses potential GHG emissions associated with project construction, operation, and maintenance. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. GHG emissions were calculated and reported in carbon dioxide equivalents (CO_2e) for CO_2, nitrous oxide (N_2O), and methane (CH_4) emissions from on-road, off-road, and helicopter emissions. Additionally, operational emissions of SF_6 associated with potential leakage from gas-insulated circuit breakers at the substations are also estimated. The implementation of the APMs and BMPs described in Section 5.8.4.2, as well as those described in Section 5.3, Air Quality, will further reduce less-than-significant impacts.

The project's potential effects on GHG emissions were evaluated using the criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.8-1 and discussed in more detail in Section 5.8.4.

5.8.1 Methodology and Environmental Setting

5.8.1.1 Methodology

The effect each GHG has on global warming is a combination of the amount of their emissions and their global warming potential (GWP). GWP is a measure of how much energy the emissions of 1 ton of a gas would absorb over a given period of time, relative to the emissions of 1 ton of CO_2. GHG emissions are presented in terms of metric tons (MT) of CO_2e, which are calculated as the product of the mass emitted of a given GHG and its specific GWP (EPA 2022a). The GHG emissions were calculated using the 100-year GWP values from 40 CFR Appendix Table A-1 to Subpart A of Part 98 – Global Warming Potentials. These GWP values are the same as in the International Conference on Parallel Processing (ICPP) Fourth Assessment Report (ICPP 2017).

Short-term construction emissions of GHG were evaluated. Construction emissions of GHG from off-road construction equipment and fugitive dust for the PG&E portion of the project were estimated using the methodologies and emission factors described in the CalEEMod User's Guide (CAPCOA 2022). On-road vehicle emission factors were obtained from EMFAC2021 (CARB 2022a). Helicopter emissions were estimated using emissions factors obtained from the FOCA (FOCA 2009). Projected construction emissions were estimated for each year based on the anticipated project schedule and activities at each of the project construction site. While the construction activities would occur in 2026 to 2029, equipment and vehicle emission factors of 2016 were used for all construction years to be conservative. Detailed construction emissions calculations for the PG&E sites are presented in Appendix B1a, including the assumptions employed.

Long-term operational emissions of GHG from the PG&E sites were also evaluated. These emissions are a result of the O&M activities and leakage from SF_6-insulated circuit breakers. Operation emissions from PG&E potion of the project were estimated for the O&M activities in 2030 and beyond using the same methodology as discussed previously, with 2030 emission factors. Construction and operation emissions calculations for the PG&E portion of the project are provided in Appendix B1a.

Construction and operation emissions of GHG from the LEU portion of the project were modeled using CalEEmod (Version 2020.4.0) and the anticipated SF_6 leakage. GHG emission calculations for the construction and operation of the LEU portion in the project included in Appendix B1b.

GHG emission calculations in this document were based on worst-case estimates of emissions to ensure presentation of a conservative environmental analysis. This analysis may be revised, as needed, to reflect changes to the project plans.

5.8.1.2 Environmental Setting

GHGs are global concerns, unlike criteria air pollutants or toxic air contaminants that are of regional and/or local concern. Scientific research indicates that observed climate change is most likely a result of

increased GHG emissions associated with human activity (Intergovernmental Panel on Climate Change 2022). Global climate change describes a collection of phenomena, such as increasing temperatures and rising sea levels, occurring across the globe due to increasing anthropogenic emissions of GHGs. GHGs contribute to climate change by allowing ultraviolet radiation to enter the atmosphere and warm the Earth's surface, but also prevent some infrared radiation from the earth from escaping back into space. The largest anthropogenic source of GHGs is the combustion of fossil fuels, which result primarily in CO_2 emissions.

Global average temperature has increased about 1.8°F from 1901 to 2016. Changes of one or two degrees in the average temperature of the planet can cause potentially dangerous shifts in climate and weather. Many places have experienced changes in rainfall, resulting in more floods, droughts, or intense rain, as well as more frequent and severe heat waves. The planet's oceans and glaciers also have experienced changes—oceans are warming and becoming more acidic, ice caps are melting, and sea level is rising. As these and other changes become more pronounced in the coming decades, they will likely present challenges to our society and our environment (EPA 2023).

As defined in AB 32, "greenhouse gas" or "greenhouse gases" include, but are not limited to CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6. California is a substantial contributor to global GHG emissions. In 2020, the annual California statewide GHG emissions were 369.2 million metric tons of CO_2e. The transportation sector accounts for about 38% of the statewide GHG emissions. The industrial and electric power sectors account for 23% and 11%, respectively, of the total statewide GHG emissions. The dominant GHG emitted is CO_2, primarily from fossil fuel combustion (CARB 2022b).

No existing infrastructure with potential or known GHG emissions would be upgraded or replaced by the project.

5.8.2 Regulatory Setting

5.8.2.1 Federal

The Supreme Court decision in *Massachusetts et al. v. Environmental Protection Agency et al.* (Supreme Court Case 05-1120) found that EPA has the authority to list GHGs as pollutants and to regulate emissions of GHGs under the federal CAA. On April 17, 2009, EPA found that CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6 may contribute to air pollution and may endanger public health and welfare. EPA has established reporting regulations that require specific facilities and industries to report their GHG emissions annually.

5.8.2.2 State

Executive Order S-3-05

State Executive Order S-3-05 issued in 2005 established GHG reductions targets for the state of California. The targets called for a reduction of GHG emissions to 2000 levels by 2010; a reduction of GHG emissions to 1990 levels by 2020; and a reduction of GHG emissions to 80% below 1990 levels by 2050. The California Environmental Protection Agency (Cal/EPA) secretary is required to coordinate development and implementation of strategies to achieve the GHG reduction targets.

Global Warming Solutions Act of 2006

In 2006, the California State Legislature signed the Global Warming Solutions Act of 2006 (AB 32), which provides the framework for regulating GHG emissions in California. This law requires the CARB to design and implement emission limits, regulations, and other measures such that statewide GHG emissions are reduced in a technologically feasible and cost-effective manner to 1990 levels by 2020 (CARB 2014).

Part of CARB's direction under AB 32 was to develop a scoping plan that contains the main strategies California will use to reduce GHG emissions that cause climate change. The scoping plan includes a range of GHG reduction actions, which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as a cap-and-trade

system, and an AB 32 cost of implementation fee regulation to fund the program. CARB first approved the AB 32 Scoping Plan in 2008 and its latest adopted plan is the *2022 Scoping Plan for Achieving Carbon Neutrality* (CARB 2022a). The *2022 Scoping Plan* is discussed further under the following section on AB 1279.

A *Regulation for Reducing Sulfur Hexafluoride (SF_6) Emissions from Gas Insulated Switchgear* was implemented as part of AB 32, mandating utilitywide reduction of SF_6 emissions to a 1% leak rate by 2020.

Executive Order B-30-15

In April 2015, Governor Brown signed Executive Order B-30-15 that added the intermediate target of reducing GHG emissions to 40% below 1990 levels by 2030.

Senate Bill 32 and Assembly Bill 197

On September 8, 2016, Governor Brown signed SB 32 and AB 197, which codified the 2030 GHG emissions reduction target of 40% below 1990 levels and provided additional direction for updating the scoping plan. The *2017 Scoping Plan* established a path that would get California to its 2030 target, which is reiterated in the 2022 draft update.

On December 30, 2009, the California Resources Agency adopted amendments to the CEQA guidelines to include analysis of GHG emissions in CEQA documents, deferring significance thresholds to the lead agency. The amendments became effective on March 18, 2010.

Assembly Bill 1279, the California Climate Crisis Act

AB 1279, signed into law on September 16, 2022, requires the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. It also requires the state to reduce statewide GHG emission by 85% compared to 1990 levels and directs CARB to work with relevant state agencies to achieve these goals.

CARB's *2022 Scoping Plan* builds on the state's existing programs and integrates efforts to reduce both GHGs and air pollution. The *2022 Scoping Plan* lays out a path to achieve California's target for carbon neutrality and to reduce anthropogenic GHG emissions by 85% below 1990 levels no later than 2045, as directed by AB 1279. Per the *2022 Scoping Plan*, California's future climate strategy will focus on zero- and near-zero-emission vehicle technologies; continued investment in renewables, such as solar roofs, wind, and other types of distributed generation, further reductions in short-lived climate pollutants; integrated land conservation and development strategies; increased action on natural and working lands to reduce emissions; and increased actions to sequester, capture, and store carbon (CARB 2022c).

5.8.2.3 Regional

The California Air Pollution Control Officers Association (CAPCOA) has established the Greenhouse Gas Reduction Exchange (GHG Rx) for greenhouse gas emission credits in California. Credits listed on the GHG Rx come from voluntary emission reduction projects and can be purchased to offset GHG emissions.

Local air districts act under state law and their discretionary requirements apply to PG&E utility projects.

On December 17, 2009, the SJVAPCD adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA* (SJVAPCD 2009b). This guidance does not apply to the CPUC, which is lead agency for this project, and does not address construction impacts or performance standards for substations or other electrical facilities in any event. The guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project-related impacts on global climate change.

5.8.2.4 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies. The City of Lodi released its Climate Change Plan in 2014 that quantified the city's GHG emissions and established action steps toward achieving a local emissions reduction target (City of Lodi 2014).

5.8.3 Impact Questions

The project's potential effects related to greenhouse gas emissions were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.8-1 and discussed in more detail in Section 5.8.4.

Table 5.8-1. CEQA Checklist for Greenhouse Gas Emissions

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

5.8.3.1 Additional CEQA Impact Questions

None.

5.8.4 Potential Impact Analysis

Project impacts related to greenhouse gas emissions were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.8.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. CEQA allows for significance criteria established by the applicable air pollution control district(s) to be used to assess the impact of a project related to GHG emissions, at the discretion of the CEQA Lead Agency.

As noted, the SJVAPCD (as well as several other air districts) have not adopted or recommended GHG significance thresholds for construction emissions. Therefore, in several recent CEQA documents, the CPUC has elected to use an approach to determine the significance of GHG construction emissions based on guidance developed by the South Coast Air Quality Management District (SCAQMD). For construction-related GHGs, SCAQMD recommends that total emissions from construction be amortized over 30 years

and added to operational emissions, and then compared to the operation-based significance threshold of 10,000 metric tons CO_2e per year. The 10,000 metric tons CO_2e per year threshold was derived from emissions data from the four largest air districts in California and is based on the Executive Order S-3-05 GHG emissions reductions goal of 80% below 1990 levels by 2050, which is roughly equivalent to 90% below current levels by 2050. This emissions reduction goal goes beyond the AB 32 emissions reduction goal established for 2020. The emissions data suggest that approximately 1% of all stationary sources emit greater than 10,000 metric tons of CO_2e per year and are responsible for 90% of GHG emissions. This significance threshold represents a capture rate of 90% of all new and modified stationary source-related projects. A 90% emissions capture rate means 90% of the total emissions from all new or modified stationary source projects would be subject to analysis in an environmental impact report prepared pursuant to CEQA, including analysis of feasible alternatives and imposition of feasible mitigation measures (SCAQMD 2008).

Per Appendix G of the CEQA Guidelines, the potential significance of the project's GHG emissions were evaluated for each of the criteria listed in Table 5.8-1, as discussed in Section 5.8.4.3.

5.8.4.2 Applicant-Proposed Measures and Best Management Practices

Construction

APM GHG-1: PG&E Minimize GHG Emissions. PG&E will implement the following to minimize GHG emissions:

- Minimize unnecessary construction vehicle idling time. The ability to limit construction vehicle idling time will depend on the sequence of construction activities and when and where vehicles are needed or staged. Certain vehicles, such as large diesel-powered vehicles, have extended warm-up times following start-up that limit their availability for use following start-up. Where such diesel-powered vehicles are required for repetitive construction tasks, these vehicles may require more idling time. The project will apply a "common sense" approach to vehicle use, so that idling is reduced as far as possible below the maximum of 5 consecutive minutes allowed by California law; if a vehicle is not required for use immediately or continuously for construction activities, its engine will be shut off. Construction supervisors will include briefings to crews on vehicle use as part of pre-construction conferences. Those briefings will include discussion of a "common sense" approach to vehicle use.
- Maintain construction equipment in proper working conditions in accordance with manufacture specifications.
- Minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible. Portable diesel fueled construction equipment with engines 50 horsepower or larger and manufactured in 2000 or later will be registered under the CARB Statewide Portable Equipment Registration Program.
- Minimize welding and cutting by using compression of mechanical applications where practical and within standards.
- Encourage use of natural gas-powered vehicles for passenger cars and light-duty trucks where feasible and available.
- On road and off-road vehicle tire pressures will be maintained to manufacturer specifications. Tires will be checked and re-inflated at regular intervals.
- Use line power instead of diesel generators at construction sites where line power is available.
- If suitable park-and-ride facilities are available in the project vicinity, construction workers will be encouraged to carpool to the job site.
- Encourage the recycling of construction waste where feasible.

BMP GHG-1: LEU Minimize GHG Emissions. LEU will implement the following to minimize GHG emissions:

- Minimize unnecessary construction vehicle idling time. The ability to limit construction vehicle idling time will depend on the sequence of construction activities and when and where vehicles are needed or staged. Certain vehicles, such as large diesel-powered vehicles, have extended warm-up times following start-up that limit their availability for use following start-up. Where such diesel-powered vehicles are required for repetitive construction tasks, these vehicles may require more idling time. The project will apply a "common sense" approach to vehicle use, so that idling is reduced as far as possible below the maximum of 5 consecutive minutes allowed by California law; if a vehicle is not required for use immediately or continuously for construction activities, its engine will be shut off. Construction supervisors will include briefings to crews on vehicle use as part of pre-construction conferences. Those briefings will include discussion of a "common sense" approach to vehicle use.
- Maintain construction equipment in proper working conditions in accordance with manufacture specifications.
- Minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible. Portable diesel fueled construction equipment with engines 50 horsepower or larger and manufactured in 2000 or later will be registered under the CARB Statewide Portable Equipment Registration Program.
- Minimize welding and cutting by using compression of mechanical applications where practical and within standards.
- Encourage use of natural gas-powered vehicles for passenger cars and light-duty trucks where feasible and available.
- On road and off-road vehicle tire pressures will be maintained to manufacturer specifications. Tires will be checked and re-inflated at regular intervals.
- Use line power instead of diesel generators at construction sites where line power is available.
- If suitable park-and-ride facilities are available in the project vicinity, construction workers will be encouraged to carpool to the job site.
- Encourage the recycling of construction waste where feasible.

Operation and Maintenance

APM GHG-2: PG&E Minimize SF_6 Emissions. PG&E will employ standard best practices—such as minimizing vehicle trips through proper planning of O&M activities and keeping vehicles and equipment well maintained—during PG&E operations, and will comply with CARB Early Action Measures (CARB 2011c) as these policies become effective.

- Incorporate PG&E Thurman Switching Station and PG&E Lockeford Substation's modification into PG&E's systemwide SF_6 emission reduction program. CARB has adopted the *Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear,* Sections 95350 to 95359, Title 17, CCR, which requires that the companywide SF_6 emission rate not exceed 1% by 2020. Since 1998, PG&E has implemented a programmatic plan to inventory, track, and recycle SF_6 inputs, and inventory and monitor systemwide SF_6 leakage rates to facilitate timely replacement of leaking breakers. PG&E has improved its leak detection procedures and increased awareness of SF_6 issues within the company. X-ray technology is now used to inspect internal circuit breaker components to eliminate dismantling of breakers, reducing SF_6 handling and accidental releases. As an active member of EPA's SF_6 Emission Reduction Partnership for Electrical Power Systems, PG&E has focused on reducing SF_6 emissions from its transmission and distribution operations and has reduced the SF_6 leak rate by 89% and absolute SF_6 emissions by 83%.
- Require that the breakers at PG&E Thurman Switching Station and PG&E Lockeford Substation have a manufacturer's guaranteed maximum leakage rate of 0.5% per year or less for SF_6.
- Maintain substation breakers in accordance with PG&E's maintenance standards.
- Comply with California Air Resources Board Early Action Measures as these policies become effective.

BMP GHG-2: LEU Minimize SF_6 Emissions. LEU will employ standard best practices—such as minimizing vehicle trips through proper planning of the O&M activities and keeping vehicles and equipment well maintained—during LEU operations, and will comply with CARB Early Action Measures (CARB 2011c) as these policies become effective.

- LEU has specified vacuum breakers for one additional 60 kV breaker and five 12 kV distribution feeder breakers all of which are currently oil filled. Additionally, as part of a 10-year capital improvement plan, LEU has a plan to replace fourteen 60 kV SF_6 insulated breakers from LEU Industrial Substation by the end of year 2024.
- Incorporate LEU Guild substation into LEU's systemwide SF_6 emission reduction program. CARB has adopted the *Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear,* Sections 95350 to 95359, Title 17, CCR, which requires that companywide SF_6 emission rate not exceed 1% by 2020.
- Require that the breakers at LEU Guild Substation have a manufacturer's guaranteed maximum leakage rate of 0.5% per year or less for SF_6.
- Maintain substation breakers in accordance with LEU's maintenance standards.
- Comply with California Air Resources Board Early Action Measures as these policies become effective.

5.8.4.3 Potential Impacts

Potential project impacts related to GHG emissions were evaluated against the CEQA significance criteria and are discussed in further detail in the following paragraphs. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. In accordance with recent CPUC precedent, this analysis follows the SCAQMD's recommended approach for construction emissions by amortizing the construction emissions over a 30-year project lifetime then compares those emissions to the significance threshold of 10,000 metric tons CO_2e per year.

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Construction of the PG&E portion of the project will generate GHG emissions over the estimated 34-month construction period resulting from off-road construction equipment and machinery, helicopter activity, vehicular traffic generated by construction workers, and material hauling and disposal (Table 5.8-2). Following project completion, all construction emissions will cease. Approximately 3,519.52 metric

tons of CO_2e could be generated during the PG&E's 34-month construction period. Amortized over 30 years, the estimated PG&E GHG construction emissions are 117.32 metric tons of CO_2e per year.

Table 5.8-2. Estimated Construction-Related Greenhouse Gas Emissions – PG&E Sites

Construction Year	Emissions (MT CO_2e/Year)[a,b]
Total PG&E Emissions (Year 2026)	1,255.63
Total PG&E Emissions (Year 2027)	1,918.33
Total PG&E Emissions (Year 2028)	341.75
Total PG&E Emissions (Year 2029)	3.82
Total PG&E GHG Emissions Over 34-Months	3,519.52
Total PG&E GHG Emissions Amortized over 30 years	117.32

[a] 1 MT = 1,000 kg or 2,204.6 lbs

[b] CO_2e = carbon dioxide equivalent (calculated per EPA global warming potentials [GWP])

Reduction in GHG emissions associated with implementation of APM AIR-1 and APM AIR-2 may further reduce PG&E GHG emissions, but this potential reduction is not quantifiable and is not included in the emission estimates.

Operation GHG emissions from PG&E portion of the project include the periodic O&M activities and the potential leakage of SF_6 from PG&E Lockeford Substation, and PG&E Thurman Switching Station. Estimated GHG emissions for the PG&E operation are shown in Table 5.8-3. PG&E portion of the project would have 92.15 metric tons CO_2e per year during operation.

Table 5.8-3. Estimated Operation-Related Greenhouse Gas Emissions – PG&E Sites

Construction Year	Emissions (MT CO_2e/Year)[a]
PG&E Operation and Maintenance Emissions	11.97
PG&E SF_6 Leakage	80.17
Total PG&E GHG Emissions[b]	92.15

Notes:

[a] CO2e = carbon dioxide equivalent (calculated per EPA GWP)

[b] GHG emissions incorporated the SF_6 leakage rate of 0.5% in APM GHG-2.

The annual GHG emissions from the PG&E portion of the project, including the amortized construction emissions and the annual operation emissions, would be 194.06 MT CO_2e per year, lower than the threshold of 10,000 MT CO_2e per year. As shown, annual GHG emissions for the PG&E portion of the project would be lower than the SCAQMD GHG thresholds. In addition, implementation of the APM GHG-1 would further reduce or minimize the PG&E emissions. The impact will be less than significant.

LEU Potential Impact Discussion

The majority of GHG emissions from LEU portion of the construction are generated from construction equipment used for the various construction phases as well as on-road vehicle emissions associated with worker commuting and hauling trips. Table 5.8-4 summarizes the construction emissions calculated using CalEEMod in metric tons. LEU construction occurs over an estimated 13-month period. Approximately 502.54 MT CO_2e could be generated during the LEU's construction period. Amortized over 30 years, the estimated LEU GHG construction emissions are 16.75 MT CO_2e per year.

Detailed GHG emission calculations are shown in Appendix B1b.

Table 5.8-4. Estimated Construction-Related Greenhouse Gas Emissions – LEU Site

Activity	Annual Emissions (MT CO_2e/year)
LEU Emissions (Year 2027)	471.55
LEU Emissions (Year 2028)	31.00
Total LEU Emissions	502.54
Total LEU Emissions Amortized over 30 years	16.75

Reduction in GHG emissions associated with implementation of BMP AIR-1 and BMP AIR-2 may further reduce LEU GHG emissions, but this potential reduction is not quantifiable and is not included in the emission estimates.

GHG Emissions from operation of the LEU portion of the project will be generated from electricity usage at the new or modification facilities, monthly inspections (vehicle usage), and SF_6 leakage from circuit breakers at LEU Guild Substation. Table 5.8-5 summarizes the annual operational GHG emissions from the LEU portion of the project and includes the amortized construction emissions. The LEU portion of the project would have 484.49 MT CO_2e per year during operation. Detailed CalEEMod operational emissions calculations are included in Appendix B1b. Emission calculations of operations SF_6 emissions are shown in Appendix B1b.

Table 5.8-5. Estimated Operation-Related Greenhouse Gas Emissions – LEU Site

Activity	Annual Emissions (MT CO_2e/year)[a,b]
LEU Operation and Maintenance Emissions	455.63
LEU SF_6 Leakage	28.86
Total LEU GHG Emissions[c]	484.49

Notes:

[a] 1 MT = 1,000 kg or 2,204.6 lbs

[b] CO_2e = carbon dioxide equivalent (calculated per EPA GWP)

[c] GHG emissions incorporated the SF_6 leakage rate of 0.5% in BMP GHG-2.

The annual GHG emissions from the LEU portion of the project, including the amortized construction emissions and the annual operation emissions, would be 521.89 MT CO_2e per year, lower than the threshold of 10,000 MT CO_2e per year. As shown, annual GHG emissions for the LEU portion of the project would be lower than the SCAQMD GHG thresholds. In addition, implementation of the BMP GHG-1 would further reduce or minimize the LEU emissions. The impact will be less than significant.

Total Project Potential Emissions and Impacts

Total GHG emissions from the PG&E and LEU portions of the project are summarized in Table 5.8-6. As shown in the table, the total GHG emissions from the project is estimated to be 710.71 MT CO_2e per year, lower than the 10,000 MT CO_2e per year threshold. Therefore, the GHG emissions generated by the project will not be cumulatively considerable or significantly contribute to global climate change. As shown, annual GHG emissions for the project would be lower than the SCAQMD GHG thresholds. In addition, implementation of the APM GHG-1 and BMP GHG-1 would further reduce or minimize the project emissions. The impact will be less than significant.

Table 5.8-6. Total Project GHG Emissions – PG&E and LEU

Activity	Annual Emissions (MT CO_2e/year)
PG&E Construction (Amortized)	117.32
PG&E Operation	92.15
LEU Construction (Amortized)	16.75
LEU Operation	484.49
Total GHG Emissions	710.71

b) Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases? *No Impact.*

PG&E Potential Impact Discussion

To meet the GHG reduction goals, CARB prepared the *AB 32 Scoping Plan* and provided updates to the plan in 2014, 2017, and 2022 to guide statewide GHG reduction strategies. The *2022 Scoping Plan* is designed to reduce statewide anthropogenic GHG emissions in California by 85% as compared to the 1990 levels by 2045, as directed by AB 1279. The project will not conflict with the *2022 Scoping Plan*. GHG emissions from O&M of the project will minimally increase as a result of the installation of ten new circuit breakers. PG&E will implement APM GHG-2 to minimize its GHG emissions related to its portion of the project. O&M of the new and modified facilities is assumed to be incorporated into existing PG&E activities with minor addition of annual inspections for new facilities, such that GHG emissions from O&M activities are anticipated to have a minimal increase as a result of this project. Additionally, electrification of day-to-day operations in land use development projects and industrial processes is a method that potentially can reduce fossil fuel (including gasoline or diesel) combustion because of the use of a less carbon-intensive energy source (depending on the source of electricity production). By increasing reliability of the project area's power system, existing electricity customers will have access to safe and reliable electricity. This reliable electricity source may then support additional electrification of customer operations, which in turn may result in reduced GHG emissions. In addition, the project will improve the electric transmission infrastructure in the region, which can support existing or future renewable electric generation (for example, wind, solar, hydro, and thermal). Therefore, the project will be consistent with the goals of the *2022 Scoping Plan* and the impact will be less than significant.

LEU Potential Impact Discussion

To meet the GHG reduction goals, CARB prepared the *AB 32 Scoping Plan* and provided updates to the plan in 2014, 2017, and 2022 to guide statewide GHG reduction strategies. The *2022 Scoping Plan* is the primary plan to reduce GHG emissions throughout California and is designed to reduce statewide anthropogenic GHG emissions in California by 85% as compared to the 1990 levels by 2045, as directed by AB 1279. The project will not conflict with the *2022 Scoping Plan*. GHG emissions will minimally increase as a result of the installation of two new circuit breakers and one spare breaker filler tank. LEU will implement BMP GHG-2 to minimize its GHG emissions related to its portion of the project. O&M of the new LEU Guild Substation and modified LEU Industrial Substation and 12 kV feeder line facilities is assumed to be incorporated into existing LEU activities, such that GHG emissions from O&M activities are anticipated to result in a minimal increase as a result of this project. Additionally, electrification of day-to-day operations in land use development projects and industrial processes is a method that potentially can reduce fossil fuel (including gasoline or diesel) combustion because of the use of a less carbon-intensive energy source (depending on the source of electricity production). By increasing reliability of the project area's power system, existing electricity customers will have access to safe and reliable electricity. This reliable electricity source may then support additional electrification of customer operations, which in turn may result in reduced GHG emissions. In addition, the project will improve the electric transmission infrastructure in the region, which can support existing or future renewable electric generation (for example, wind, solar, hydro, and thermal). Therefore, the project will be consistent with the goals of the *2022 Scoping Plan* the impact will be less than significant.

5.9 Hazards, Hazardous Materials, and Public Safety

This section describes existing conditions and potential impacts related to hazards, hazardous materials, and public safety associated with construction, operation, and maintenance of the project. The analysis concludes that any impacts related to hazards, hazardous materials, and public safety will be less than significant; the implementation of APMs and BMPs described in Section 5.9.5.2 will further reduce less-than-significant impacts. The project's potential effects associated with hazards, hazardous materials, and public safety were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.9-4 and Table 5.9-5 and discussed in more detail in Section 5.9.5.1. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The Environmental Data Resources, Inc. (EDR) report for hazardous sites near the project areas is provided as Appendix G1. The Phase I Environmental Site Assessment (Phase I ESA) for PG&E Thurman Switching Station is provided as Appendix G2 (ERM 2022).

5.9.1 Methodology and Environmental Setting

5.9.1.1 Methodology

Potential impacts on the environment related to hazards, hazardous materials, and public safety were evaluated based on the type and location of anticipated project-related construction and operational activities. The evaluation was based on review of publicly available information about existing land uses, airports, wildfire hazard zones, and known soil and groundwater contamination sites within and near the substations and the project alignment. Information on hazards, hazards materials, and public safety in the project area was obtained from published studies prepared by state, county, and local agencies, including the following:

- *Lodi General Plan* (City of Lodi 2010a)
- Lodi General Plan, Draft Environmental Impact Report (City of Lodi 2010b)
- Hazardous Materials Sites Database, City of Lodi Electric Utility. (City of Lodi 2021)
- *General Plan*, Draft Environmental Impact Report (San Joaquin County 2014)
- *General Plan*, Policy Document (San Joaquin County 2016)
- San Joaquin County District viewer (San Joaquin County 2019a)
- San Joaquin County Natural Hazard Disclosure Information (San Joaquin County 2019b)
- San Joaquin County Zoning Codes (San Joaquin County 2019c)
- Lodi Zoning Maps (ArcGIS 2019)
- School Directory (California Department of Education 2019)
- Schools List (Lodi Unified School District 2019)

A report summarizing regulatory agency database listings was obtained from EDR and reviewed to screen for nearby hazardous sites and Recognized Environmental Conditions (RECs) that may exist within the project area (EDR 2022). The American Society for Testing and Materials (ASTM) standard for Phase I Site Assessment Process E-1527-21 identifies RECs as "(1) the presence of hazardous substances or petroleum products due to a release to the environment; (2) the *likely* presence of hazardous substances or petroleum products due to a *likely* release to the environment; or (3) the presence of hazardous substances or petroleum products under conditions that pose a material threat of a future release to the environment." The EDR report (EDR 2022) includes (1) information on sites within 0.25 mile of the project area that were identified in federal, state, and local databases related to the use, storage, or release of hazardous materials and wastes; and (2) a map showing the locations of these sites.

As specified by CEQA significance criterion d) (refer to Table 5.9-4), the EDR report was used to identify sites along the project area that are included on a list of hazardous materials sites compiled pursuant to

GC Section 65962.5 (“Cortese List”). Because the Cortese List is no longer specifically updated by the state, those requesting a copy of the Cortese List are now referred directly to the appropriate information resources contained on the Internet websites of the boards or departments that are referenced in the statute. The EDR report’s listing of regulated sites was supplemented by reviewing sites listed on the California Department of Toxic Substances Control (DTSC) EnviroStor website and the SWRCB GeoTracker website (DTSC 2019; SWRCB 2020). A copy of the EDR report is provided as Appendix G1.

PG&E plans to acquire a portion of parcel APN 04931009 from the City of Lodi to construct and operate the proposed PG&E Thurman Switching Station. A Phase I ESA was performed on approximately 17.19 acres (APN 04931009 and the adjacent APN 04931008) in the City of Lodi at and adjacent to the proposed PG&E switching station site (ERM 2022). The Phase I ESA was conducted in accordance with the scope and limitations of ASTM International Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13). Refer to Appendix G2 for a copy of the Phase I ESA for PG&E Thurman Switching Station.

The potential for activities and equipment that could pose fire hazards was evaluated through review of state fire hazard maps, including the California Department of Forestry and Fire Protection (CAL FIRE) and the CPUC Fire-Threat Map. Public safety issues for the project that are associated with use of hazardous materials, risk of property damage by wildfires, and an increase in accidents were identified by reviewing San Joaquin County emergency documents.

5.9.1.2 Environmental Setting

The project is located in unincorporated San Joaquin County and the City of Lodi. The proposed PG&E Northern San Joaquin 230 kV Transmission Project consists of an approximately 10.8-mile-long PG&E transmission corridor extending the existing PG&E Brighton-Bellota 230 kV transmission line to a proposed PG&E Thurman Switching Station and adjacent proposed LEU Guild Substation located within the City of Lodi. The existing PG&E Lockeford Substation, existing PG&E 60 kV lines, existing PG&E remote-end substations, existing PG&E Clayton Hill Repeater Station, existing LEU Industrial Substation, and existing PG&E and LEU distribution lines will be all modified as part of the project. The predominant land uses in the project area include agricultural with retail, wineries, and rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

Project activities at PG&E remote-end substations and PG&E Clayton Hill Repeater Station will occur within existing stations and generally are similar to existing operations and maintenance activities. Project activities at these PG&E stations will be addressed where activities are not similar or the remote setting warrants potential hazards, hazardous material, or public safety impact discussion (for example, wildfire risk).

5.9.1.3 Airports

The *San Joaquin County Airport Land Use Compatibility Plan* identifies three public airports near the City of Lodi: (1) Lodi Airpark, which is located approximately 4.3 miles southwest of proposed PG&E Structure W34; (2) Lodi Airport, which is located approximately 5.0 miles northwest of LEU Industrial Substation, and (3) Kingdon Airpark, which is located approximately 6.3 miles southwest of LEU Industrial Substation.

Lodi Airpark was constructed in 1945 as a public-use airport. Its primary function is as a base for a commercial aerial chemical application service for both agriculture and insect abatement. Lodi Airpark reported approximately 6,000 operations in 2008. Based on an interview with the airpark operator, operations are anticipated to increase to 12,000 by 2028 (Coffman Associates, Inc. 2009).

Lodi Airport was constructed in 1929 as the second largest privately owned airport in the state of California. The primary activities at the airport include skydiving operations, emergency response helicopters, and training. The airport reported approximately 54,000 operations in 2008. Based on an interview with the airpark operator, operations are anticipated to increase to 150,000 by 2028 (Coffman Associates, Inc. 2009).

Kingdon Airpark was constructed in the 1940s to support military training activity during World War II. Today, the primary activities include the aerial application of agricultural chemicals, training, and home of the Delta Flying Club. Kingdon Airpark reported approximately 24,000 operations in 2008. However, the airpark's management anticipates an increase in operations to approximately 84,500 by 2028 (Coffman Associates, Inc. 2009).

In addition to the public airports, there is a private airstrip, Wallom Field, located approximately 2.75 miles south of proposed PG&E Structure W23. There are no land use plans associated with Wallom Field because it is a private facility.

5.9.1.4 Wildland Fire Hazards

As described in Section 5.20.2, the CAL FIRE Hazard Severity Zone maps identify federal responsibility areas (FRAs), state responsibility areas (SRAs), or local responsibility areas (LRAs) for preventing or suppressing fires. Within SRAs, the Director of CAL FIRE has designated areas as moderate, high, and very high fire hazard severity zones based on factors such as potential fuel sources, terrain, weather, fire behavior characteristics, burn probabilities, and the likelihood of vegetation exposure. Within LRAs, CAL FIRE has recommended the locations of very high FHSZs that may or may not be adopted by local governing agencies. The CAL FIRE maps also show FRAs and fire hazard designations within those federal areas.

According to the CAL FIRE maps, all LEU and PG&E project components with the exception of one component, PG&E Clayton Hill Repeater Station, are located entirely within LRAs, but not located within an identified severity zone (CAL FIRE 2022). The three PG&E remote-end substations (Brighton, Bellota, and Rio Oso) are located within LRAs outside of the main project area in northern San Joaquin County. Additionally, none of the PG&E remote-end substations are within an identified very high Fire Hazard Severity Zone. The existing PG&E Clayton Hill Repeater Station (in Contra Costa County) is located in an SRA and identified as being in a high fire severity area. Project-related work at this repeater station will occur within the fenced, paved station yard and does not involve ground disturbance. The San Joaquin County GIS also has mapped fire severity zones, and results show none of the main portions of the project are within an identified severity zone (SJC GIS 2020).

Additional information regarding wildland fires and risks is presented in Section 5.20.

5.9.1.5 Metallic Objects

No metallic pipelines or cables within 25 feet of the project have been identified that would create a hazard, hazardous materials, or a public safety issue.

5.9.1.6 Schools

No schools are located within 0.25 mile of the project.

5.9.1.7 Existing Hazardous Materials and Sites

The EDR report lists two closed leaking underground storage tank sites within 0.25 mile of the project. The sites are at 5950 East Kettleman Lane (Delta Packing Company), approximately 0.15 mile west of PG&E Structure W36, and at 213 South Kelly Street (Lodi Metal Tech, Inc.), approximately 0.25 mile northwest of the PG&E work on PG&E Lodi-Industrial Line pole 2 along East Lodi Avenue. The PG&E Phase I ESA for the 1215 Thurman Street site identified two additional sites within 0.25 mile. The sites are at 851 East Lodi Avenue (Lodi Ready Mix), approximately 0.20 mile west of LEU Industrial Substation, and at 1025 Industrial Way (Lodi Lumber Company), approximately 0.21 mile south of the proposed PG&E Thurman Switching Station. All sites are closed, and no further action is needed.

The EDR report lists two EnviroStor sites within 0.25 mile of the project with no further action required at either site. The project activity at existing PG&E Lodi-Industrial Line pole 2 is the closest project location to the two sites. The pole is approximately 650 feet north of 100 South Cluff Avenue (B&G Industries) and approximately 0.22 mile from 213 South Kelly Street (Lodi Metal Tech, Inc.) (EDR 2022). The PG&E Phase

I ESA for the 1215 Thurman Street site also identified B&G Industries and Lodi Metal Tech, Inc. as the nearest facilities within 0.25 mile.

The EDR report lists one Clean Program Site (or Spills, Leaks, Investigations, and Cleanup sites) at 305 South Guild Avenue (CCT Railroad), which is between the existing PG&E Industrial Tap and PG&E Lockeford-Industrial 60 kV lines when immediately east of South Guild Avenue. Cleanup has been completed and the case is closed as of March 17, 2023. In addition, the report identified one facility within 0.25 mile, B&G Industries, south at 100 South Cluff Avenue, approximately 650 feet away from PG&E Lodi-Industrial Line pole 2. The report also identified a second site, B&G Industries, southbound at 100 South Cluff Road; however, that address does not exist in the City of Lodi and, therefore, it is assumed to be a duplicate facility. No additional facilities were identified in the PG&E Phase I ESA for the 1215 Thurman Street site.

There are two Cortese Hazardous Waste and Substance Sites within 0.25 mile of the property. They are at 5950 East Kettleman Lane (Delta Packing Company), approximately 700 feet from proposed PG&E transmission structure W35, and at 213 South Kelly Street (Lodi Metal Tech, Inc.), approximately 0.22 mile away from existing PG&E Lodi-Industrial Line pole 2. The PG&E Phase I ESA for the 1215 Thurman Street site identified two additional sites within 0.25 mile. Lodi Lumber Company at 1025 Industrial Road, approximately 0.21 mile south of the proposed PG&E Thurman Switching Station, and Lodi Ready Mix at 851 East Lodi Avenue, approximately 0.23 mile west of LEU Industrial Substation. All cases are closed and completed and no further action is required at these sites.

The EDR report and the Phase I ESA list multiple facilities that fall under the Resource Conservation and Recovery Act (RCRA) of 1976 Hazardous Waste Program. These sites are located within 0.25 mile of the proposed project, including both PG&E and LEU project components, and are shown in Table 5.9-1.

Table 5.9-1. RCRA Hazardous Waste Program Facilities within 0.25 Mile of the Proposed Project

PG&E's Portion of the Project[a]	
• Brea Agri Serv Inc, 5991 East Kettleman Lane • Crop Production Services Inc., 6042 East Kettleman Lane • Delta Packing Co, 6021 East Kettleman Lane • George Perlegos, 15506 North Curry Avenue • Heckenlaible Farms, 14117 N Locust Tree Road	• Mia Brown, 14281 Vintage Road • Pacific Gas & Electric, Lockeford Substation, Manifests, 12861 East Kettleman Lane • Silvestres Mechanical Co Inc., 6030 East Kettleman Lane

Table 5.9-1. RCRA Hazardous Waste Program Facilities within 0.25 Mile of the Proposed Project

PG&E Portions and LEU Portions of Project within the City of Lodi	
• American Master Tech, 1330 East Thurman Road[a] • Buchco Precision Machining Inc., 21 Commerce Street[a] • Bushco Precision, 21 Commerce Street[a] • Certainteed Corporation, 300 Beckman Road[b] • Central Valley Painting Inc, 67 South Guild Avenue[a] • Cepheid, 1330 East Thurman Road[c] • E F Kludt & Sons Incorporated, 1126 East Pine Street[b] • FWS Construction, 111 South Guild Avenue[a] • Guarantee Repair Service, 101 Commerce Street[c] • Heartland Steel Products, 213 South Kelly Street[b] • Hondas Plus, 922 #K Industrial Way[b] • Joes Automotive of Lodi, 200 Commerce Street[b] • Knife River Lodi, 851 East Lodi Avenue[b] • Lodi Metal Tech, Incorporated, 213 South Kelly Street[b]	• Lustre Cal Nameplate, 715 South Guild Avenue[b] • Miller Parking Company, 112b Industrial Way[b] • North American Specialty Products LLC, 300 Beckman Road[c] • Pacific Coast Producers Distribution Center, 650 South Guild Avenue[c] • R & L Carriers, 1330 East Thurman Road[b] • R&R McCullough Mobil, 177 Kelly Street[b] • Shands Diesel Truck Repair, 885 East Lodi Avenue[c] • Sweetener Products I, 1150 East Thurman Road[c] • Scientific Specialties Inc, 1310 East Thurman Road[a] • Schaefer Systems LLC, 1250 East Thurman Road[c] • Western Radiator Service, 12 South Cluff Street[b]

Notes:
[a] Identified in Appendix G1: EDR Area/Corridor Report for Northern San Joaquin 230 kV Transmission Project, September 2, 2022.
[b] Identified in Appendix G2: PG&E Phase I ESA for 1215 Thurman Road, June 22, 2022.
[c] Identified in both the EDR Area/Corridor Report and the PG&E Phase I ESA for 1215 Thurman Road.

5.9.1.8 Project-Related Hazardous Materials

Hazardous Material Use

Construction of the project would require the use of hazardous materials, such as fuels, lubricants, and cleaning solvents, as shown in Table 5.9-2 and Table 5.9-3. These would be used to power internal combustion engines, lubricate internal combustion engines and other construction equipment and hardware, and clean vehicles and equipment. It is anticipated that no pesticides or herbicides will be needed during construction activities. If needed, material will be transported in specialty trucks or in other approved containers. In addition, approximately 34,000 gallons of mineral oil will be required for LEU Guild Substation's two transformers.

Table 5.9-2. Types, Uses, and Volumes of Hazardous Materials – PG&E Construction

Hazardous Material	Use	Approximate Volume (gallons)
Diesel	Engine fuel	280,915
Gasoline	Engine fuel	22,051
Jet fuel	Fuel	11,101
Hydraulic Fluids/Lubricants	Engine and equipment lubrication and powering of hydraulic equipment	15,703
Other Construction Fluids (solvents)	Cleaning, lubricating hardware, etc.	785

Notes:
Hazardous Materials identified will not be stored onsite. All fueling and storage will occur offsite. Diesel and gasoline fuel volumes are from Appendix B1a. Hydraulic fluids and lubricants volumes are anticipated to be 5% of total fuel volumes. Other construction fluids volumes are anticipated to be 5% of hydraulic fluids and lubricants volumes.

Table 5.9-3. Types, Uses, and Volumes of Hazardous Materials – LEU Construction

Hazardous Material	Use	Approximate Volume (gallons)
Diesel	Engine fuel	98,640
Gasoline	Engine fuel	3,164
Hydraulic Fluids/Lubricants	Engine and equipment lubrication and powering of hydraulic equipment	5,090
Other Construction Fluids (solvents)	Cleaning, lubricating hardware, etc.	255

Notes:
Hazardous Materials identified will not be stored on site. All fueling and storage will occur offsite. Diesel and gasoline fuel volumes are from Appendix B1b. Hydraulic fluids and lubricants volumes are anticipated to be 5% of total fuel volumes. Other construction fluids volumes are anticipated to be 5% of hydraulic fluids and lubricants volumes.

When not in use, hazardous materials will be properly stored to prevent drainage or accidents as instructed by SDSs that will be provided to onsite personnel in case of emergency. The anticipated volume of hazardous liquid materials, such as fuel, are calculated based on the equipment and vehicles expected to be used during construction. These hazardous liquid materials would not be stored onsite at the total approximate volume. As hazardous liquid materials are needed, they would be obtained by construction vehicles at a gas station, and other materials such as hydraulic fluids/liquids would be ordered at volumes that are appropriate for storage on a maintenance truck and dispensed at one or more staging areas during a routine maintenance activity. An SPCC Plan or a Hazardous Materials Business Plan (HMBP) is not expected to be required for construction (in accordance with 40 CFR Parts 112.1-112.7 and California Health and Safety Code [CA HSC] Section 25507, respectively). If a contractor elects to have larger volumes on site, plans would be developed as appropriate.

During operations, the total volume of hazardous materials expected to be used for the PG&E facilities is approximately 1,315 gallons of gasoline, diesel, and jet fuel. None of these hazardous materials are expected to be stored onsite at PG&E project facilities. During PG&E operations and maintenance, vehicles and equipment will obtain fuel from commercial gas stations or airports.

During LEU operations and maintenance, existing maintenance trips to existing LEU station and line facilities will review the adjacent new and modified LEU project facilities. No additional LEU trips or use of hazardous material is planned for the continuation of LEU routine maintenance and inspections.

Hazardous Waste

Limited hazardous waste will be generated during both project construction and operations and will be handled and disposed of in accordance with local, state, and federal requirements.

Treated wood waste has the potential to be classified as hazardous waste if it contains elevated levels of arsenic, chromium, copper, pentachlorophenol, or creosote. Treated wood waste often can be visually identified by tags or markings on the wood, when cut staining is visible around the perimeter only, or by discoloration or odor. If encountered, treated wood waste will be managed in accordance with applicable California and federal regulations. PG&E will dispose of utility-generated waste, including treated wood waste, under the Hazardous Waste Fee Health and Safety Code (CA HSC Chapter 6.5, Section 25143 et seq.). Under this exemption, the wood waste would be disposed of in a composite lined portion of a municipal solid waste landfill that meets requirements imposed by the state policy adopted pursuant to Section 13140 of the Water Code and regulations adopted pursuant to Sections 13172 and 13173 of the Water Code. Further the solid waste landfill used for disposal is authorized to accept the wood waste under waste discharge requirements issued by the RWQCB pursuant to Division 7 (commencing with Section 13000) of the Water Code.

5.9.2 Regulatory Setting

The following sections contain an overview of regulations related to the use of hazardous materials and the disposal of hazardous wastes.

5.9.2.1 Federal

Resource Conservation and Recovery Act

Under RCRA (42 USC Section 6901 et seq.), individual states may implement their own hazardous waste programs in lieu of RCRA, as long as the state program is at least as stringent as the federal RCRA requirements. The federal government approved California's RCRA program, called the Hazardous Waste Control Law (HWCL), in 1992. In California, the RCRA program is administered by the Cal/EPA and DTSC, per direction of the federal EPA.

Comprehensive Environmental Response, Compensation, and Liability Act

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 USC Chapter 103) and associated Superfund Amendments provide the EPA with the authority to identify hazardous sites, to require site remediation, and to recover the costs of site remediation from polluters. CERCLA also enabled the revision of the National Oil and Hazardous Substances Pollution Contingency Plan, also known as the National Contingency Plan (NCP). The NCP provides the guidelines and procedures needed to respond to releases and threatened releases of hazardous substances, pollutants, or contaminants.

Clean Water Act

The CWA gives EPA the authority to regulate the discharge of pollutants and hazardous materials into the waters of the United States. As part of the CWA, EPA oversees and enforces the Oil Pollution Prevention regulation (40 CFR Part 112). The regulations describe the requirements for facilities to prepare, amend, and implement SPCC Plans to describe a comprehensive spill prevention program that minimizes the potential for discharges from specific sources, such as oil-containing transformers.

Federal Water Pollution Control Act

The EPA designates hazardous substances under the Federal Water Pollution Control Act (40 CFR Chapter I, Subchapter D, Parts 116 and 117) and determines quantities of designated hazardous substances that must be reported (40 CFR Part 116) or that may be discharged into waters of the United States (40 CFR Part 117).

U.S. Department of Transportation Hazardous Materials Regulations

The U.S. Department of Transportation (DOT) Hazardous Materials Regulations (Title 49 CFR Parts 100-185) cover all aspects of hazardous materials packaging, handling, and transportation.

Federal Aviation Administration Regulations

The FAA regulates the safe use and preservation of navigable airspace. The FAA must be notified of any structures located in the airspace of an airport as defined in 14 CFR Section 77.9 (b)(1), (2), and (3), or new structures taller than 200 feet in height, to confirm that the proposed structures will not pose a threat to safety.

5.9.2.2 State

Hazardous Waste Control Law

The HWCL (CA HSC Chapter 6.5, Section 25100 et seq.) authorizes Cal/EPA and the DTSC, a department within Cal/EPA, to regulate the generation, transportation, treatment, storage, and disposal of hazardous wastes. DTSC also can delegate enforcement responsibilities to local jurisdictions that enter into agreements with DTSC for the generation, transport, and disposal of hazardous materials under the authority of HWCL. Businesses that store more than threshold quantities of hazardous materials must prepare an HMBP, which includes spill prevention and response provisions.

Hazardous Substance Account Act

The Hazardous Substance Account Act (HSAA) (CA HSC Chapter 6.8, Section 25300 et seq.) is California's equivalent to CERCLA. It addresses hazardous waste sites and apportions liability for them. The HSAA also provides that owners are responsible for the cleanup of such sites and the removal of toxic substances, where possible.

The two state agencies with primary responsibility for enforcing federal and state regulations related to hazardous material transport and responding to hazardous materials transportation emergencies are the CHP and Caltrans, respectively.

Occupational Safety and Health

The California Division of Occupational Safety and Health (Cal/OSHA) assumes primary responsibility for developing and enforcing workplace safety regulations within the state (CCR Title 8). Cal/OSHA standards are more stringent than federal Occupational Safety and Health Administration regulations and take precedence. Section 1518 of the California PRC requires that suitable protection equipment or devices will be provided or used on or near energized equipment for the protection of employees where there is a recognized hazard of electrical shock or burns.

Hazardous Materials Management

The California Office of Emergency Services is the state office responsible for establishing emergency response and spill notification plans related to hazardous materials accidents. Title 26 of the CCR is a compilation of the chapters or titles of the CCR that are applicable to hazardous materials management.

Porter-Cologne Water Quality Control Act

As discussed in more detail in Section 5.10, Hydrology and Water Quality, the Porter-Cologne Water Quality Control Act (California Water Code, Division 7) is the provision of the California Water Code that regulates water quality in California and authorizes the SWRCB and nine Regional Water Quality Control Boards (RWQCBs) to implement and enforce the regulations. The Porter-Cologne Act provides several means of enforcement for unauthorized discharge of pollutants to waters of the state, including cease and desist orders, cleanup and abatement orders, administrative civil liability orders, civil court actions, and criminal prosecution. The project area is under the jurisdiction of the Central Valley RWQCB (Region 5).

Unified Hazardous Waste and Hazardous Materials Management Regulatory Program

The Unified Hazardous Waste and Hazardous Materials Management Regulatory Program (Unified Program) (CCR Title 27) was mandated by the state of California in 1993. The Unified Program was created to consolidate, coordinate, and make consistent the administrative requirements, permits, inspections, and enforcement activities for six hazardous materials programs. The program has six elements, including:

- Hazardous Waste Generators and Hazardous Waste On-site Treatment
- Underground Storage Tanks
- Aboveground Petroleum Storage Act
- Hazardous Materials Release Response Plans and Inventories
- California Accidental Release Prevention
- Uniform Fire Code Hazardous Materials Management Plans and Hazardous Materials Inventory Statements

At the local level, implementation if a Unified Program is accomplished by identifying a CUPA that coordinates all of these activities to streamline the process for local businesses. The San Joaquin County Environmental Health Department (SJCEHD) is approved by Cal/EPA as the CUPA for San Joaquin County.

Hazardous Waste Fee Health and Safety Code

The Hazardous Waste Fee Health and Safety Code (CA HSC Chapter 6.5, Section 25143 et seq.) provides definition and guidance on wood waste and its disposal. Wood waste is defined in part as poles, crossarms, pilings, and fence posts that have been previously treated with a preservative.

Wood waste materials removed from electric, gas, or telephone service are exempt from the requirements for disposal provided certain conditions are met, including:

- If the wood waste is not subject to regulation as a hazardous waste under a federal act and it is disposed of in a composite-lined portion of a municipal solid waste landfill that meets any requirements imposed by the state policy adopted pursuant to Section 13140 of the Water Code and regulations adopted pursuant to Sections 13172 and 13173 of the Water Code
- If the solid waste landfill used for disposal is authorized to accept the wood waste under waste discharge requirements issued by the RWQCB pursuant to Division 7 (commencing with Section 13000) of the Water Code

Rules for Overhead Electric Line Construction

Under Section 35 of General Order (GO) 95, the CPUC regulates all aspects of design, construction, operation, and maintenance of electrical power lines and fire safety hazards for utilities subject to its jurisdiction.

Public Resources Code

PRC Sections 4292–4293 identify construction, operation, and maintenance requirements to minimize fire hazards for power lines located in SRAs.

PRC Section 4292 addresses power line hazard reduction. It identifies the requirements for firebreaks around "any pole or tower which supports a switch, fuse, transformer, lightning arrester, line junction, or dead end or corner pole" in wildland areas.

PRC Section 4293 provides specific clearances for power lines in wildland areas.

Fire Prevention Standards for Electric Utilities

The Fire Prevention Standards for Electric Utilities (CCR Title 14, Sections 1250-1258) provide definitions, maps, specifications, and clearance standards for projects under the jurisdiction of PRC Sections 4292 and 4293 in SRAs.

Additional regulations related to fire prevention are discussed in detail in Section 5.20 Wildfire.

Government Code Sections 51177, 51178, 51182, 51183, and 51189

These GC sections identify construction, operation, and maintenance requirements to minimize fire hazards for structures located in very high fire hazard severity zones. These sections apply to buildings only. They do not regulate power or transmission lines.

California Fire Code

The California Fire Code 2010 (CCR Title 24, Part 9) is based on the International Fire Code from the International Code Council and contains consensus standards related to establishing good practices to safeguard the public health, safety, and general welfare from the hazards of fire, explosion, or dangerous conditions in new or existing buildings, structures, and premises.

5.9.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for CUPAs with respect

hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

County Office of Emergency Services (OES)

The responsibility of the San Joaquin County Office of Emergency Services (OES) includes effective planning for emergencies and preparing a Local Hazardous Mitigation Plan that meets the state and federal requirement of the Disaster Mitigation Act of 2000. The OES provides training for governmental agencies, including California Department of Public Health, the County Public Works Department, and the SJCEHD.

San Joaquin County Multi-Hazard Plan

The San Joaquin County Multi-Hazard Plan, revised in August of 1994, addresses each of the four phases of emergency management: mitigation, preparedness, response, and recovery. The common emergency management systems, currently being developed by the Governor's Office of Emergency Services, is an integral part of the County response system. This Plan identifies those organizations, agencies, and individuals that are responsible for responding to emergencies. Additionally, it provides guidance on how emergencies will be managed by the County. The Plan, using the Multi-Agency Coordination System and Incident Command System as its basis, is designed to allow County government to respond to any size or type of emergency.

San Joaquin County Environmental Health Department

The SJCEHD, under the CUPA Program, enforces state regulations governing hazardous materials storage, hazardous waste generators, hazardous waste treatment, and hazardous substance underground storage tanks.

The SJCEHD assists businesses in preparing Hazardous Materials Release Response Plans and Inventories (Business Plans). The SJCEHD performs oversight of investigation and cleanup activities at soil and groundwater contaminated sites under a contract with the SWRCB.

City of Lodi Fire Department

The Fire Department provides a wide range of emergency and nonemergency services, including hazardous materials response, public education, and related safety services. The Department conducts Uniform Fire Code inspections of hazardous facilities.

San Joaquin County Airport Land Use Plan (1997)

The 1997 San Joaquin County Airport Land Use Plan (ALUP) created and updated by the San Joaquin County Airport Land Use Commission (ALUC) establishes Airport Land Use Zones for each airport in the plan. The zones are based on 14 CFR Part 77 airspace standards. Within each zone, the airport land use guidelines control both the heights of structures and the type of land uses. The plan also includes intensity restrictions that limit the number of people who may congregate within a specific area. The ALUP provides guidelines and land use restrictions to ensure that no new land use resulting in a hazard to aircraft or to the health or safety of persons on the ground is permitted within any part of an airport's area of influence. These guidelines also ensure that lands needed for airport facilities and airport-related land uses are reserved for those uses. These restrictions are meant to both reduce risk to people on the ground in the event of an aircraft accident and to minimize hazards to aircraft flight.

While the ALUP does not apply to this project, the ALUC has adopted 14 CFR Part 77, Objects Affecting Navigable Airspace, using imaginary surfaces to determine height restrictions for natural and artificial objects. These federal regulations govern project design, and PG&E will comply with all FAA requirements.

Although the ALUP regulates the construction or alteration of any structure or natural growth at a height that exceeds the obstruction standards set forth in the regulations of the FAA relating to objects affecting

navigable airspace contained in 14 CFR 77, Subpart C, the regulations do not apply to a pole, pole line, distribution or transmission tower, or tower line or substation of a public utility. Applicable federal regulations allow utility line facilities within the height limits proposed for this project.

5.9.2.4 Touch Thresholds

The U.S. Occupational Safety and Health Administration (OSHA) general industry electrical safety standards are published in Title 29 CFR Part 1910.302 through 1910.308, Design Safety Standards for Electrical Systems, and 1910.331 through 1910.335, Electrical Safety-Related Work Practices Standards (National Archives and Records Administration Office of the Federal Register [NARA OFR], 2021). OSHA's electrical standards are based on the National Fire Protection Association (NFPA) codes and standards: NFPA 70 – National Electrical Code and NFPA 70E – Standard for Electrical Safety in the Workplace (NFPA 2022).

Cal/OSHA regulations on electrical safety require California employers to provide workers with a safe and healthful workplace. These regulations are contained in Title 8 of the CCR. Most of the electrical health and safety regulations can be found in Chapter 4, Subchapter 5 in the Electrical Safety Orders, Sections 2299 through 2989. Cal/OSHA regulations on electrical safety are grouped by electrical voltage. Regulations for low voltage (0 to 600 V) are given in Sections 2299–2599 and the regulations for high voltage (greater than 600 V) are given in Sections 2700–2989. Section 1518 addresses the safety requirements for the protection of workers and others from electric shock in construction.

The project will be designed to all applicable standards and regulations that will provide for adequate horizontal and vertical clearances from electrical equipment. All authorized personnel working onsite, during either construction or O&M, would be trained according to OSHA, Cal/OSHA, NFPA, PG&E, and LEU standards. To minimize potential exposure of the public to electric shock hazards, an 8-foot-tall chain-link fence topped with 1 to 2 feet of barbed wire would extend around the perimeter of new and modified stations, thus restricting site access. Warning signs would be posted to alert persons of potential electrical hazards. All electric power lines will be designed in accordance with CPUC GO 95 guidelines for safe ground clearances established to protect the public from electric shock.

5.9.3 Impact Questions

The project's potential effects on hazards, hazardous materials, and public safety were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.9-4 and discussed in more detail in Section 5.9.4.

Table 5.9-4. CEQA Checklist for Hazards, Hazardous Materials, and Public Safety

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	☐	☐	☒	☐

5.9.3.1 Additional CEQA Impact Questions

The project's potential effects on hazards, hazardous materials, and public safety also were evaluated using the CPUC's Additional CEQA Impact Questions for Hazards, Hazardous Materials, and Public Safety in the Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments (CPUC 2019). These additional impact questions are evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.9-5 and discussed in more detail in Section 5.9.4.

Table 5.9-5. Additional CEQA Impact Questions for Hazards, Hazardous Materials, and Public Safety

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Create a significant hazard to air traffic from the installation of new power lines and structures?	☐	☐	☒	☐
b) Create a significant hazard to the public or environment through the transport of heavy materials using helicopters?	☐	☐	☐	☒
c) Expose people to a significant risk of injury or death involving unexploded ordnance?	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
d) Expose workers or the public to excessive shock hazards?	☐	☐	☒	☐

5.9.4 Potential Impact Analysis

Project impacts related to hazards, hazardous materials, and public safety were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the O&M phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.9.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts related to hazards, hazardous materials, and public safety were evaluated for each of the criteria listed in Table 5.9-4, as discussed in Section 5.9.4.2.

5.9.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs to avoid or reduce impacts to resources:

APM HAZ-1. PG&E Development and Implementation of Hazardous Material and Emergency Response Procedures. PG&E will implement construction controls, training, and communication to minimize the potential exposure of the public and site workers to potential hazardous materials during all phases of project construction and, as appropriate, during the O&M phase. Construction procedures that will be implemented include worker training appropriate to the worker's role, and containment and spill control practices in accordance with the SWPPP (APM HYD-1). If required, a site-specific SPCC Plan and an HMBP will be developed before the operation of the expanded PG&E Lockeford Substation and new PG&E Thurman Switching Station (APM HYD-4).

BMP HAZ-1. LEU Development and Implementation of Hazardous Material and Emergency Response Procedures. LEU will implement construction controls, training, and communication to minimize the potential exposure of the public and site workers to potential hazardous materials during all phases of project construction and, as appropriate, during the O&M phase. Construction procedures that will be implemented include worker training appropriate to the worker's role, and containment and spill control practices in accordance with the SWPPP (BMP HYD-1). A site-specific SPCC Plan and an HMBP will be developed before the operation of the new LEU Guild Substation (BMP HYD-4).

APM HAZ-2. PG&E Emergency Spill Supplies and Equipment. Materials will be available on the project site during construction to contain, collect, and dispose of any minor spill at PG&E's project components. Oil-absorbent material, tarps, and storage drums will be available on the project site during construction and will be used to contain and control any minor releases of oil. If excess water and liquid concrete escape during pouring, they will be directed to adjacent lined and bermed areas, where the concrete will dry and then be transported for disposal per applicable regulations.

BMP HAZ-2. LEU Emergency Spill Supplies and Equipment. Materials will be available on the project site during construction to contain, collect, and dispose of any minor spill at LEU's project components. Oil-absorbent material, tarps, and storage drums will be available on the project site during construction and will be used to contain and control any minor releases of oil. If excess water and liquid concrete escape

during pouring, they will be directed to adjacent lined and bermed areas, where the concrete will dry and then be transported for disposal per applicable regulations.

APM HAZ-3. PG&E Shock Hazard Safety Measures. All authorized personnel working on site, during either construction or O&M, will be trained according to PG&E standards. To minimize potential exposure of the public to electric shock hazards, a 9-foot-tall chain-link fence topped with 1 foot of barbed wire (total height of approximately 10 feet) will be installed around the perimeter of the expanded PG&E Lockeford Substation and the new PG&E Thurman Switching Station before the new electric equipment is energized.

BMP HAZ-3. LEU Shock Hazard Safety Measures. All authorized personnel working on site, during either construction or O&M, will be trained according to LEU standards. To minimize potential exposure of the public to electric shock hazards, an 8-foot-tall chain-link fence topped with 1 to 2 feet of barbed wire (up to approximately 10 feet in height) will be installed around the perimeter of the new LEU Guild Substation before the new electric equipment is energized.

APM HAZ-4. PG&E Worker Environmental Awareness Training Program. A PG&E WEAP will be developed and implemented prior to construction. The WEAP program will be established to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program will emphasize site-specific physical conditions to improve hazard prevention and will include a review of the SWPPP, which also will address spill response and proper implementation of best practices and measures. The PG&E WEAP program will be provided separately to CPUC staff prior to construction. If it is necessary to store chemicals, they will be managed in accordance with all applicable regulations. SDSs will be maintained and kept available onsite, as applicable.

BMP HAZ-4. LEU Worker Environmental Awareness Training Program. An LEU WEAP will be developed and implemented prior to construction. The WEAP program will be established to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program will emphasize site-specific physical conditions to improve hazard prevention and will include a review of the SWPPP, which also will address spill response and proper implementation of best practices and measures. If it is necessary to store chemicals, they will be managed in accordance with all applicable regulations. SDSs will be maintained and kept available onsite, as applicable.

APM HAZ-5. PG&E Potentially Contaminated Soil or Groundwater. Soil occurring at PG&E project components that is suspected of being contaminated (based on existing analytical data or visual, olfactory, or other evidence) and is removed during excavation activities will be segregated and tested; if the soil is contaminated above hazardous levels, it will be contained and disposed of offsite at a licensed waste facility. The presence of known or suspected contaminated soil will require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations. Groundwater is not expected to be encountered during construction. However, if it is encountered, groundwater will be collected during construction, contained, and disposed of in accordance with all applicable regulations. Non-contaminated groundwater will be released to a combined sanitary and stormwater drainage system in the area (with prior approval) or will be contained, tested, and disposed of in accordance with applicable regulations.

BMP HAZ-5. LEU Potentially Contaminated Soil or Groundwater. Soil occurring at LEU project components that is suspected of being contaminated (based on existing analytical data or visual, olfactory, or other evidence) and is removed during excavation activities will be segregated and tested; if the soil is contaminated above hazardous levels, it will be contained and disposed of offsite at a licensed waste facility. The presence of known or suspected contaminated soil will require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations. Groundwater is not expected to be encountered during construction. However, if it is encountered, groundwater will be collected during construction, contained, and disposed of in accordance with all applicable regulations. Non-contaminated groundwater will be released to the City's combined sanitary and stormwater drainage system (with prior approval) or will be contained, tested, and disposed of in accordance with applicable regulations.

5.9.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Construction

Construction of the PG&E portion of the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Table 5.9-2 identifies hazardous materials expected to be used onsite during construction and operation.

Construction of project facilities would require the use of motorized heavy equipment, including trucks, cranes, backhoes, and air compressors. Although this equipment requires the use of hazardous materials, such as gasoline, diesel, oil, hydraulic fluid, antifreeze, transmission fluid, lubricating grease, and other fluids, these materials will be transported to the work sites according to DOT standards and used in designated construction staging areas or other suitable locations identified prior to the onset of construction. APM HAZ-2 and APM HAZ-4 require construction crews to be trained in safe handling of hazardous materials prior to the initiation of construction, which will further reduce the small risk of minor exposures to the environment, the public, or site workers to potentially hazardous materials during construction. PG&E would follow its existing worker training programs.

The project is not expected to use or store large quantities of hazardous materials. During construction, typical petroleum-based products such as gasoline, diesel fuel, crankcase oil, lubricants, and cleaning solvents will be used to fuel, lubricate, and clean vehicles and equipment, and will be transported in specialty trucks or in other approved containers. When not in use, hazardous materials will be properly stored to prevent drainage or accidents as instructed by SDSs that will be provided to onsite personnel in case of emergency. The anticipated volume of hazardous liquid materials, such as fuel, are calculated based on the equipment and vehicles expected to be used during construction. These hazardous liquid materials would not be stored onsite at the total approximate volume. As hazardous liquid materials are needed, they would be obtained by construction vehicles at a gas station, and other materials such as hydraulic fluids/liquids would be ordered at volumes that are appropriate for storage on a maintenance truck and dispensed at one or more staging areas during a routine maintenance activity. During construction, an SPCC Plan or an HMBP is not expected to be required (in accordance with 40 CFR Parts 112.1–112.7 and CA HSC Section 25507, respectively). If a contractor elects to have larger volumes on site, plans would be developed as appropriate.

Because hazardous materials will be transported, used, and disposed of in accordance with appropriate procedures, the project will not create a significant hazard to the public or environment. Any impacts will be less than significant, and PG&E's existing worker safety training programs described in APM HAZ-2, APM HAZ-3, and APM HAZ-4 will further reduce less-than-significant impacts.

There would be no large volumes of known hazardous waste resulting from project construction. Removal of the RO1 tower is expected to generate approximately 13 yd^3 of hazardous waste. Minor volumes of hazardous waste will be disposed of using the appropriate methods of handling and transportation, with disposal at a certified hazardous waste disposal facility. Treated wood waste removed from the project area during construction will be managed under the utility exemption of the California Hazardous Waste Fee Health and Safety Code. Treated wood waste will be transported offsite and will be collected in project-specific containers either at a PG&E service center that is designated as a PG&E consolidation site or the project's primary staging area. When the containers are filled, the waste will be transported to an appropriate licensed Class I or Class II landfill or the composite-lined portion of a solid waste landfill. The transport and disposal of hazardous waste and the treated wood waste will not pose a significant hazard to the environment or the public.

In accordance with APM HAZ-5, potentially contaminated soil that has not been precharacterized will be stockpiled separately to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities (using indicators such as sheen, odor, and soil discoloration), work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment. Appropriate personal protective equipment will be used, and waste management will be performed in accordance with applicable regulations. If excavation of hazardous materials is required, the materials will be disposed of in accordance with applicable regulations.

Operation and Maintenance

Monthly maintenance activities occurring at PG&E Lockeford Substation and PG&E Thurman Switching Station may include use of hazardous materials, including oils, paints, and solvents used for routine maintenance. The materials would be handled in accordance with the existing PG&E Lockeford Substation HMBP and SPCC (APM HAZ-1), which would be updated to include the expanded PG&E Lockeford Substation, and other standard safety practices. PG&E Thurman Switching Station is not expected to store hazardous materials onsite that require an HMBP or SPCC. No changes are expected to occur to existing maintenance activities at PG&E remote-end substations or PG&E Clayton Hill Repeater Station.

Other potential hazards associated with the PG&E electrical facilities include the presence of high voltage, open-air conductors, transmission line, power lines, and distribution lines. Proposed upgrades to the existing facilities will update and conform with the Institute of Electrical and Electronic Engineers' safety standards. Additionally, all workers will be trained in appropriate safety procedures, as described in existing PG&E safety training programs and in APM HAZ-4, and the PG&E station sites will be fenced to prevent public access and electric lines will be designed in accordance with CPUC GO 95 guidelines for safe ground clearances established to protect the public from electric shock. All materials used during O&M will be applied, stored, and disposed of consistent with manufacturer recommendations and in accordance with applicable regulations. This impact will be less than significant. Additionally, the impact from substances associated with motor vehicles that will be used for annual line inspection will be less than significant.

LEU Potential Impact Discussion

Construction

Construction of the LEU portion of the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Table 5.9-3 identifies hazardous materials expected to be used onsite during construction and operation.

Construction of these project facilities would require the use of motorized heavy equipment, including trucks, cranes, backhoes, and air compressors. Although this equipment requires the use of hazardous

materials, such as gasoline, diesel, oil, hydraulic fluid, antifreeze, transmission fluid, lubricating grease, and other fluids, these materials will be transported to the substation work site according to DOT standards and used in designated construction staging areas or other suitable locations identified prior to the onset of construction. BMP HAZ-2 and BMP HAZ-4 require construction crews to be trained in safe handling of hazardous materials prior to the initiation of construction, which will further reduce the small risk of minor exposures to the environment, the public, or site workers to potentially hazardous materials during construction. LEU would follow its existing worker training programs.

The project is not expected to use or store large quantities of hazardous materials. During construction, typical petroleum-based products such as gasoline, diesel fuel, crankcase oil, lubricants, and cleaning solvents will be used to fuel, lubricate, and clean vehicles and equipment, and will be transported in specialty trucks or in other approved containers. When not in use, hazardous materials will be properly stored to prevent drainage or accidents as instructed by SDSs that will be provided to onsite personnel in case of emergency. The anticipated volume of hazardous liquid materials, such as fuel, are calculated based on the equipment and vehicles expected to be used during construction. These hazardous liquid materials would not be stored onsite at the total approximate volume. As hazardous liquid materials are needed, they would be obtained by construction vehicles at a gas station, and other materials such as hydraulic fluids/liquids would be ordered at volumes that are appropriate for storage on a maintenance truck and dispensed at one or more staging areas during a routine maintenance activity. During construction, an SPCC Plan or an HMBP is not expected to be required (in accordance with 40 CFR Parts 112.1–112.7 and CA HSC Section 25507, respectively). If a contractor elects to have larger volumes on site, plans would be developed as appropriate.

Because hazardous materials will be transported, used, and disposed of in accordance with appropriate procedures, the project will not create a significant hazard to the public or environment. Any impacts will be less than significant, and LEU's existing worker safety training programs described in BMP HAZ-2, BMP HAZ-3, and BMP HAZ-4 will further reduce less-than-significant impacts.

There would be no large volumes of known hazardous waste used for or resulting from project construction. Minor volumes of hazardous waste will be disposed of using the appropriate methods of handling and transportation, with disposal at a certified hazardous waste disposal facility. Treated wood waste is not expected to be encountered by LEU during its portion of the project.

In accordance with BMP HAZ-5, potentially contaminated soil that has not been precharacterized will be stockpiled separately to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities (using indicators such as sheen, odor, and soil discoloration), work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment. Appropriate personal protective equipment will be used, and waste management will be performed in accordance with applicable regulations. If excavation of hazardous materials is required, the materials will be disposed of in accordance with applicable regulations.

Operation and Maintenance

Maintenance activities occurring monthly at LEU Industrial and LEU Guild substations will be incorporated into existing LEU substation maintenance activities. These existing LEU substation maintenance activities may include use of hazardous materials, including oils, paints, and solvents used for routine maintenance. The materials would be handled in accordance with the existing LEU Industrial Substation HMBP and SPCC (BMP HAZ-1), which would be updated to include the project components, and other standard safety practices. As part of the project, the older oil-filled circuit breakers and the existing substations will be replaced with newer circuit breakers so that, in the future, oil-filled circuit breakers that could contain small amounts of polychlorinated biphenyls will no longer be used.

The two LEU Guild Substation transformers also would require a maximum amount of approximately 17,000 gallons of mineral oil each, for a total of approximately 34,000 gallons. The mineral oil would be used, stored, and disposed of in accordance with state guidelines and LEU policy. The mineral oil will be utility grade, low-volatility mineral oil. Based on the anticipated volume of dielectric fluid/mineral oil in excess of 1,320 gallons to be used at LEU Guild Substation, an SPCC Plan will be required in accordance

with CFR Title 40, Parts 112.1–112.7, and will address the project spill prevention and containment design measures and practices. LEU Guild Substation will be constructed with secondary containment design in accordance with SPCC requirements for oil containment in the event of a spill. A concrete secondary containment basin will provide mineral oil containment for the transformer and will be designed to allow sufficient freeboard to include the oil volume of the transformer plus the precipitation from a 25-year, 24-hour storm event. The secondary oil containment will be integrated in the proposed percolation type retention basin. An oil/ water separator structure will be used to separate spilled oil from the stormwater before the stormwater drains into the retention basin. The oil/water separator will be visually inspected periodically for any contamination. The oil would form a separate layer that then can be removed by skimmers, pumps, or other similar method. The effluent oil from the oil/water separator would be discharged to the sanitary sewer system.

Maintenance associated with the relocated LEU 12 kV feeder line segment would continue to be performed on the existing LEU schedule for the entire feeder line. Additional hazardous materials are not expected to be used or required given another portion of the feeder line from South Guild Avenue and East Thurman Road into LEU Industrial Substation is in an existing underground configuration.

Other potential hazards associated with LEU Industrial and LEU Guild substations include the presence of high voltage, open-air conductors and power lines. Proposed upgrades to the existing substations are being implemented, in part, to maintain conformance with the Institute of Electrical and Electronic Engineers' safety standards. Additionally, all workers will be trained in appropriate safety procedures, as described in existing LEU safety training programs and in BMP HAZ-4, and the substation site will continue to be fenced to prevent public access. All materials used during O&M will be applied, stored, and disposed of consistent with manufacturer recommendations and in accordance with applicable regulations. This impact will be less than significant. Additionally, the impact from substances associated with motor vehicles that will be used for annual line inspection will be less than significant.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Construction

Project construction will require the use of motorized heavy equipment, including trucks. During construction activities, there is an increased potential for an accidental release of fluids from a vehicle or motorized piece of equipment. To reduce the likelihood and significance of an accident involving hazardous materials, APM HAZ-1, APM HAZ-2, and APM HAZ-4 will provide crews with knowledge, preparation, technique, and materials to avoid exposing the public, project crews, and environmental resources to hazardous materials. In the event of an accidental release of hazardous material caused by an upset or accident, crews would follow protocol outlined by APM HAZ-1, APM HAZ-2, and APM HAZ-4 to minimize the effects of an accidental spill. These measures include having spill kits in all active work areas to be used to prevent materials from draining onto the ground or into drainage areas in the event of a spill.

If underground or aboveground storage tanks are found to be located along the PG&E transmission line route or other PG&E portions of the project and the facility cannot be adjusted to avoid disturbance, the tanks will be removed prior to project construction or segregated from the work area and not disturbed. If it is determined that removal of tanks is necessary, a separate work plan describing the proper decommissioning and removal of the tanks and removal of any associated impacted soil will be prepared prior to removal.

Construction of the project would include mechanisms intended to protect the public from accidents or failure of project components. Guard structures would be installed on the sides of roadways and potentially in other public areas to provide protection in the event of a dropped cable. Shoring would be installed at trenching and excavation sites. Further, the public would not be permitted near construction activities through the use of fencing, signage, and traffic control.

Operation and Maintenance

The existing PG&E O&M policies addressing the potential release of hazardous materials in upset or accident conditions will be implemented after the project is complete. These policies include requirements based on current hazardous material handling practices and accidental release containment and cleanup. The policies provide the framework for crews to follow to protect the public, crews, infrastructure, and environmental resources from exposure to hazardous materials. All PG&E crews are required to be familiar with the policies.

Current and updated PG&E O&M policies to address the potential release of hazardous materials in upset or accident conditions will be implemented prior to completion of project construction. These policies are developed to protect the public, PG&E crews, and the environment from hazardous materials by equipping PG&E crews with knowledge and procedures to follow to prevent accidents and failures or minimize potential impacts of an accident or failure. As a result, impacts associated with creating a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment from operation of the project will be less than significant.

Further, the project is designed and maintained to withstand degrees of failure within portions of the system. Crews digitally monitor and operate the system with controls in place to proactively identify potential issues and minimize the hazard exposure to the public from failure of project components as the result of an accident. Regular maintenance by PG&E crews further reduces the likelihood and severity of failures. The risk of significant hazard to the public or the environment caused by a system accident or failure is less than significant.

LEU Potential Impact Discussion

Construction

Project construction will require the use of motorized heavy equipment, including trucks. During construction activities, there is an increased potential for an accidental release of fluids from a vehicle or motorized piece of equipment. To reduce the likelihood and significance of an accident involving hazardous materials, BMP HAZ-1, BMP HAZ-2, and BMP HAZ-4 will provide crews with knowledge, preparation, technique, and materials to avoid exposing the public, project crews, and environmental resources to hazardous materials. In the event of an accidental release of hazardous material caused by an upset or accident, crews would follow protocol outlined by BMP HAZ-1, BMP HAZ-2, and BMP HAZ-4 to minimize the effects of an accidental spill. These measures include having spill kits in all active work areas to be used to prevent materials from draining onto the ground or into drainage areas in the event of a spill.

If underground or aboveground storage tanks found during construction of the LEU portion of the project cannot be adjusted to avoid disturbance, the tanks will be removed prior to project construction or segregated from the work area and not disturbed. If it is determined that removal of tanks is necessary, a separate work plan describing the proper decommissioning and removal of the tanks and removal of any associated impacted soil will be prepared prior to removal.

Construction of the project would include mechanisms intended to protect the public from accidents or failure of project components. Guard structures would be installed on the sides of roadways and potentially in other public areas to provide protection in the event of a dropped cable. Shoring would be installed at trenching and excavation sites. Further, the public would not be permitted near construction activities through the use of fencing, signage, and traffic control.

Operation and Maintenance

The existing LEU O&M policies addressing the potential release of hazardous materials in upset or accident conditions will be implemented after the project is complete. These policies include requirements based on current hazardous material handling practices and accidental release containment and cleanup. The policies provide the framework for crews to follow to protect the public, crews, infrastructure, and

environmental resources from exposure to hazardous materials. All LEU crews are required to be familiar with the policies.

Current and updated LEU O&M policies to address the potential release of hazardous materials in upset or accident conditions will be implemented prior to completion of project construction. These policies are developed to protect the public, LEU crews, and the environment from hazardous materials by equipping LEU crews with knowledge and procedures to follow to prevent accidents and failures or minimize potential impacts of an accident or failure. As a result, impacts associated with creating a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment from operation of the project will be less than significant.

Further, the project is designed and maintained to withstand degrees of failure within portions of the system. Crews digitally monitor and operate the system with controls in place to proactively identify potential issues and minimize the hazard exposure to the public from failure of project components as the result of an accident. Regular maintenance by LEU crews further reduces the likelihood and severity of failures. The risk of significant hazard to the public or the environment caused by a system accident or failure is less than significant.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? *No Impact.*

PG&E Potential Impact Discussion

There are no existing or proposed schools located within one-quarter mile of the proposed PG&E 230 kV transmission line, existing PG&E Lockeford Substation, proposed PG&E Thurman Switching Station, PG&E Clayton Hill Repeater Station, existing PG&E 60 kV and 12 kV lines, or PG&E remote-end stations. Therefore, the PG&E project components would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. There would be no impact.

LEU Potential Impact Discussion

There are no existing or proposed schools located within one-quarter mile of the proposed LEU Guild Substation, existing LEU Industrial Substation, or existing LEU distribution lines. Therefore, the LEU project components would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. There would be no impact.

d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? *No Impact.*

PG&E Potential Impact Discussion

As shown in the EDR report and Phase I ESA, none of the PG&E project components would be located on a site that is included on a list of hazardous materials sites compiled pursuant to GC Section 65962.5. No active Superfund or state response sites are known to exist within 0.25 mile of the project area (EDR 2022). No impact would occur.

LEU Potential Impact Discussion

As shown in the EDR report and Phase I ESA, none of the LEU project components would be located on a site that is included on a list of hazardous materials sites compiled pursuant to GC Section 65962.5. No active Superfund or state response sites are known to exist within 0.25 mile of the project area (EDR 2022). No impact would occur.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? *No Impact.*

PG&E Potential Impact Discussion

The San Joaquin County Airport Land Use Compatibility Plan identifies three airports within the vicinity of the PG&E portion of the project: Lodi Airpark which is located approximately 4.3 miles southwest of the proposed PG&E Structure W34; Lodi Airport, which is located approximately 5 miles northwest of the proposed PG&E Thurman Switching Station; and Kingdon Airpark, which is located approximately 6.3 miles southwest of the proposed PG&E Thurman Switching Station. These project components would not be located within any airport land use plan or within 2 miles of a public airport or public use airport. No safety hazards that would affect people residing or working in the project area would result from the project.

LEU Potential Impact Discussion

The San Joaquin County Airport Land Use Compatibility Plan identifies three airports within the vicinity of the LEU portion of the project: Lodi Airpark, which is located approximately 4.5 miles southwest of LEU Industrial Substation; Lodi Airport, which is located approximately 5 miles northwest of LEU Industrial Substation; and Kingdon Airpark, which is located approximately 6.3 miles southwest of LEU Industrial Substation. These project components would not be located within an airport land use plan or within 2 miles of a public airport or public use airport; therefore, there would be no safety hazards which would affect people residing or working in the area, resulting in no impact.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? *No Impact.*

PG&E Potential Impact Discussion

Construction

The proposed project would not conflict with an adopted emergency response plan or evacuation plan. The San Joaquin County OES Emergency Operations Plan establishes a County incident management structure, establishes the overall operational concepts, and provides a flexible platform for planning and response to hazards, incidents, events, and emergencies (San Joaquin County Office of Emergency Services 2019). The proposed project would establish electrical infrastructure and would not interfere with incident management structure or operational concepts. Project-related activities at PG&E remote-end substations and PG&E Clayton Hill Repeater Station would occur within existing facilities and would not obstruct an adopted emergency response plan or emergency evacuation plan.

Emergency access would not be directly impacted during construction of PG&E project components since streets will remain open to emergency vehicles at all times throughout construction. Although lane closures may be required, at least one lane will remain open to provide access for emergency vehicles and evacuation. If road closures are necessary, they will occur in accordance with regulations and will not impede emergency response. In addition, any lane closures will be temporary and short term, and these closures will be coordinated with Caltrans and local jurisdictions to reduce the potential temporary and short-term effects on emergency access. During an evacuation event, construction activities would allow for efficient evacuation of the public and project personnel. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan; therefore, no impact will occur.

Operation and Maintenance

No negative impact to emergency access would result from operation of the project. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan; therefore, no impact will occur.

LEU Potential Impact Discussion

Construction

The proposed project would not conflict with an adopted emergency response plan or evacuation plan. The San Joaquin County OES Emergency Operations Plan establishes a County incident management structure, establishes the overall operational concepts, and provides a flexible platform for planning and response to hazards, incidents, events, and emergencies (San Joaquin County Office of Emergency Services 2019). The proposed project would establish electrical infrastructure and would not interfere with incident management structure or operational concepts.

Emergency access would not be directly impacted during construction of LEU project components since streets will remain open to emergency vehicles at all times throughout construction. Although lane closures may be required, at least one lane will remain open to provide access for emergency vehicles and evacuation. If road closures are necessary, they will occur in accordance with regulations and will not impede emergency response. In addition, any lane closures will be temporary and short term, and these closures will be coordinated with local jurisdictions to reduce the potential temporary and short-term effects on emergency access. During an evacuation event, construction activities would allow for efficient evacuation of the public and project personnel. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan; therefore, no impact will occur.

Operation and Maintenance

No negative impact to emergency access would result from operation of the project. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan, therefore, no impact will occur.

g) Would the project expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The proposed project passes through flat areas of long-term agricultural and residential use when outside of the industrial area in the City of Lodi. The primary risk for potential fire hazards would be associated with the use of vehicles and equipment during construction that could generate heat or sparks that could ignite dry vegetation and cause a fire.

All PG&E project components with the exception of one component, PG&E Clayton Hill Repeater Station, are located entirely within an LRA, but not located within an identified severity zone (CAL FIRE 2022). The PG&E Clayton Hill Repeater Station is located in an SRA and identified as being in a high fire severity area.

During construction, PG&E will implement APM WFR-1 and APM WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

The risk for potential fire hazards associated with O&M of the new and modified PG&E facilities is low given that facilities are engineered and will operate according to current standards to avoid wildfire risk. PG&E will continue to comply with its 2022 Wildfire Mitigation Plan, as updated yearly. Impacts to people and structures from wildland fires is less than significant.

LEU Potential Impact Discussion

According to the CAL FIRE maps, all LEU project components are located entirely within an LRA, but not located within an identified severity zone (CAL FIRE 2022). The proposed LEU project components occur on existing and disturbed industrial use lands. The primary risk for potential fire hazards would be associated with the use of vehicles and equipment during construction that could generate heat or sparks that could ignite dry vegetation and cause a fire.

During construction, LEU will implement BMP WFR-1 and BMP WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

The risk for potential fire hazards associated with O&M of the new and modified LEU facilities is low given that facilities are engineered and will operate according to current standards to avoid wildfire risk. LEU will continue to comply with its 2021 Wildfire Mitigation Plan, as updated yearly. Impacts to people and structures from wildland fires is less than significant.

5.9.4.4 Additional Impact Questions

a) Would the project create a significant hazard to air traffic from the installation of new power lines and structures? *No Impact.*

PG&E Potential Impact Discussion

The project construction and operation activities will not create a significant hazard to air traffic from the installation of PG&E project components. While PG&E does not anticipate structures at or above 200 feet, PG&E has coordinated with the FAA, and submitted a Notice of Proposed Construction or Alteration, pursuant to Title 14 CFR, Section 77, for each expected new 230 kV structure. The new PG&E microwave tower (approximately 125-150 feet aboveground) within PG&E Thurman Switching Station is within approximately 400 feet of W48 and W49, which are expected to be between approximately 140-145 feet aboveground. The FAA has made a determination of No Hazard to Air Navigation and have determined there is no need for any marking or lighting on the expected structures (Appendix G3). Further, PG&E will coordinate with nearby airports regarding helicopter flight plans for construction and maintenance activities. No impact will occur.

LEU Potential Impact Discussion

The project construction and operation activities will not create a significant hazard to air traffic from the installation of LEU project components. LEU project components are expected to be up to approximately 65 feet aboveground (two new 60 kV poles within existing LEU Industrial Substation). The LEU components will be within approximately 800 feet from the new PG&E western 230 kV structures W48 and W49 which will be approximately 40 to 145 feet aboveground, which would be at a height for which the FAA does not require marking or lighting. This height is significantly lower than the typical 200-foot aboveground threshold for FAA required marker ball, lighting, or similar requirements for structures exceeding 200 feet in height aboveground. No impact will occur.

b) Would the project create a significant hazard to the public or environment through the transport of heavy materials using helicopters? *No Impact.*

PG&E Potential Impact Discussion

A light-duty helicopter (Hughes MD 500 or equivalent) is expected to be used to support construction survey staking and as part of the conductor stringing activities during construction. A light-duty helicopter (Hughes MD 500 or equivalent) has a load capacity of approximately 1,200 pounds.

The use of helicopters to lift and transport structure components, materials, or equipment is not anticipated as the helicopters will only be used to pull a small sock line during stringing activities. Operation and maintenance of the project may require inspections and routine patrols and transmission structure insulator washing via helicopter; however, helicopters would not be required to transport heavy materials for O&M activities.

Because helicopters are not proposed for lifting and transporting components, materials, or equipment, and will only be used to pull a small sock line during stringing activities, no hazard to the public or environment would result from helicopters transporting heavy materials.

LEU Potential Impact Discussion

Construction and operation of LEU project components would not involve use of a helicopter to transport heavy materials. Therefore, there is no impact.

c) Would the project expose people to a significant risk of injury or death involving unexploded ordnance? *No Impact.*

PG&E Potential Impact Discussion

Based on preliminary geotechnical borings, blasting is not anticipated for construction of PG&E project components, including foundation installation. No portion of PG&E project components overlies a current or former military installation (State of California Office of Governor Gavin Newsom 2022). Therefore, no unexploded ordnance is expected to be encountered. Operation and maintenance of the project would not require the use of explosives. As a result, PG&E project components would not expose people to a significant risk of injury or death involving unexploded ordnance, resulting in no impact.

LEU Potential Impact Discussion

Based on preliminary geotechnical borings, blasting is not anticipated for construction of LEU project components, including foundation installation. No portion of LEU project components overlies a current or former military installation (State of California Office of Governor Gavin Newsom 2022). Therefore, no unexploded ordnance is expected to be encountered. Operation and maintenance of the project would not require the use of explosives. As a result, LEU project components would not expose people to a significant risk of injury or death involving unexploded ordnance, resulting in no impact.

d) Would the project expose workers or the public to excessive shock hazards? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The design and construction of PG&E project components would comply with federal and state regulations and standards. All authorized personnel working onsite during either construction or O&M would be trained according to OSHA safety standards (U.S. Department of Labor [DOL] 2019), which are based on applicable federal, state, and local safety regulations. To reduce shock hazards and avoid electrocution of workers or the public, PG&E would comply with the provisions found in Cal/OSHA Title 8 of the CCR, particularly the electrical health and safety regulations found in Chapter 4, Subchapter 5 in the Electrical Safety Orders, Sections 2700–2989, which are relevant to high-voltage work.

Existing infrastructure that may be susceptible to induced current is metallic in nature and, for the new PG&E Thurman Switching Station and expanded PG&E& Lockeford Substation, will be located within a station fence. A ground study will be performed to evaluate fault current conditions and a ground grid will be designed to lower the Ground Potential Rise (GPR) to meet the IEEE 80 guidelines for step and touch voltages inside and around the modified PG&E Lockeford Substation and new PG&E Thurman Switching Station. Some possible designs include the use of cooper ground grid, grounding the exterior fence, nonconductive fence panels, and ground wells. Any personnel with access will be properly trained according to PG&E standard practices. Other potential construction hazards include the presence of high-voltage, open-air conductors, which can create a high-temperature electrical arc between the electrical conductor and persons or objects. PG&E's power lines and station facilities are designed and constructed with grounding devices, and in the event of a lightning strike on a power line, this safety feature ensures that the strike is discharged to appropriate ground, and all workers will be trained in appropriate safety procedures, as described in APM HAZ-3.

To minimize potential exposure of the public to electric shock hazards, a 9-foot-tall chain-link fence topped with 1-foot of barbed wire would extend around the perimeter of the proposed PG&E Thurman Switching Station and the expanded PG&E Lockeford Substation, thereby restricting site access. The pedestrian and vehicle entrance into the stations will be gated and monitored remotely; thus, access would be restricted to only authorized personnel. Warning signs would be posted around the perimeter of

the stations' fence and gate to alert PG&E of potential electrical hazards. No change to the existing perimeter fence is expected to occur at PG&E Bellota, PG&E Brighton, PG&E Lodi, or PG&E Rio Oso substations or PG&E Clayton Hill Repeater Station.

As part of final design of the CPUC-approved transmission line route, PG&E will review parallel metal infrastructure such as pipeline and railroads. Typical design considerations include arranging the conductor phasing to minimize induction from a three-phase transmission line or adding a grounded conductor (a fourth wire on a short arm) under the three conductor phases along the side of the parallel metal infrastructure while maintaining all required code or specified clearances. Induced current on this grounded conductor generates a counter-electromotive force opposing the original field, thereby offsetting the net effect of induced voltage on the parallel metal infrastructure. Although not expected, a buried conductor can be used if the aerial solutions are not feasible or additional offsetting is needed. This buried conductor creates the same offsetting force as the aerial conductor but can be positioned even closer to the metal infrastructure, thereby being even more effective in reducing induced voltages. One advantage of the buried option is that it doesn't have the same aboveground clearance requirements and is often installed approximately 5 to 10 feet away from the edge of ballast, for example.

During O&M facilities inspections, station perimeter fencing would be examined, and repairs would be made as necessary. Because the station facilities are unstaffed, the project facilities would be remotely monitored by PG&E 24 hours a day, 7 days a week. If equipment malfunctions, existing PG&E O&M personnel would be available to be dispatched to the site to investigate the problem and take appropriate corrective action. PG&E has qualified operations personnel who are trained to avoid and minimize arc flash situations and are provided the appropriate arc flash personal protective equipment (PPE) (for example, fire resistant clothing, gloves, and insulated tools). Proper PPE would be required when anyone is in the facility. PG&E uses high-speed relay equipment that evaluates electrical fault locations and opens circuit breakers to de-energize the line in milliseconds. As such, impacts associated with exposure to workers and the public to excessive shock hazards would be less than significant.

LEU Potential Impact Discussion

The design and construction of LEU project components would comply with federal and state regulations and standards. All authorized personnel working onsite during either construction or O&M would be trained according to OSHA safety standards (U.S. DOL 2019), which are based on applicable federal, state, and local safety regulations. To reduce shock hazards and avoid electrocution of workers or the public, LEU would comply with the provisions found in Cal/OSHA Title 8 of the CCR, particularly the electrical health and safety regulations found in Chapter 4, Subchapter 5 in the Electrical Safety Orders, Sections 2700-2989, which are relevant to high voltage work.

The Lodi Water Facility to the west and the adjacent railroads on the north side of LEU Guild Substation could be susceptible to induced current. During final design, a ground study will be completed using a computer-aided ground modeling program to evaluate fault current conditions and a ground grid will be designed to lower the GPR to meet the IEEE 80 Guidelines for step and touch voltages inside and around the substation to reduce shock hazards and avoid electrocution of workers or the public. Some possible designs include the use of cooper ground grid, isolation fence panels, grounding the exterior fence, ground wells, and insulating rock layers. Along with reducing the GPR, the new ground grid will provide cathodic protection to the surrounding area.

Other potential construction hazards include the presence of high-voltage, open-air conductors, which can create a high-temperature electrical arc between the electrical conductor and persons or objects. LEU's power lines and station facilities are designed and constructed with grounding devices, and in the event of a lightning strike on a power line, this safety feature ensures that the strike is discharged to appropriate ground, and all workers will be trained in appropriate safety procedures, as described in BMP HAZ-3.

The existing LEU Industrial Substation perimeter fence will be modified with the installation of a pedestrian gate into the adjacent LEU Guild Substation fenced yard. To minimize potential exposure of the public to electric shock hazards, an 8-foot-tall chain-link fence topped with 1 to 2 feet of barbed wire would extend around the perimeter of the proposed LEU Guild Substation, thereby restricting site access. The pedestrian and vehicle entrance into the stations will be gated and monitored remotely; thus, access

would be restricted to only authorized personnel. Warning signs would be posted around the perimeter of the stations fence and gate to alert of potential electrical hazards.

During O&M facilities inspections, station perimeter fencing would be examined, and repairs would be made as necessary. Because the station facilities are unstaffed, the project facilities would be remotely monitored by LEU 24 hours a day, 7 days a week. If equipment malfunctions, existing LEU O&M personnel would be available to be dispatched to the site to investigate the problem and take appropriate corrective action. LEU has qualified operations personnel who are trained to avoid and minimize arc flash situations and are provided the appropriate arc flash PPE (for example, fire resistant clothing, gloves, and insulated tools). Proper PPE would be required when anyone is in the facility. LEU uses high-speed relay equipment that evaluates electrical fault locations and opens circuit breakers to de-energize the line in milliseconds. As such, impacts associated with exposure to workers and the public to excessive shock hazards would be less than significant.

5.10 Hydrology and Water Quality

This section describes existing conditions and potential impacts to hydrological resources, water quality, and flood control as a result of construction, operation, and maintenance of the project. The analysis concludes that impacts will be less than significant in these areas; the implementation of APMs and BMPs described in Section 5.10.4 will further reduce less-than-significant impacts. The project's potential effects on hydrology, water quality, and flood control were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.10-1 and discussed in more detail in Section 5.10.4.

5.10.1 Methodology and Environmental Setting

Methodology and environmental setting focus on the main project components in northeastern San Joaquin County. The Pacific Gas and Electric Company's (PG&E's) end substations and telecommunication tower within a repeater station will be minor modifications within facility fence lines. PG&E's work at remote stations is assessed where potential for impacts is anticipated for a minor facility modification activity.

5.10.1.1 Methodology

Information on surface water and groundwater in the project area was obtained from published studies prepared by state, county, and local water and related agencies, including the following:

- San Joaquin County General Plan (San Joaquin County 2016)
- *City of Lodi General Plan* (City of Lodi 2010a, 2010b)
- California Department of Water Resources (DWR)
- Eastern San Joaquin Groundwater Authority (ESJGA)
- Federal Emergency Management Agency (FEMA)
- Northern San Joaquin Water Conservation District (NSJWCD)
- U.S. Environmental Protection Agency (EPA)
- U.S. Geological Survey (USGS)

5.10.1.2 Regional Setting

The main project components (project or project area) are in northeastern San Joaquin County and in the eastern portion of the City of Lodi within the Central Valley of California. The Central Valley is bounded by the Cascade Range to the north, the Sierra Nevada Range to the east, the Tehachapi Mountains to the south, and the Coast Ranges and San Francisco Bay to the west. The Central Valley's northern valley is the Sacramento River Hydrologic Region and the southern valley is the San Joaquin Valley, with its San Joaquin River Hydrologic Region and Tulare Lake Region (DWR 2020). The central area is the Delta where the Sacramento and San Joaquin Rivers meet. The combined discharge of the Sacramento and San Joaquin Rivers flows through the Central Valley's one natural outlet, the Carquinez Strait, on its way to San Francisco Bay and the Pacific Ocean (USGS 2022a). The project is within the Eastside Streams area where several streams from the Sierra Nevada Range flow west to the Delta area (USGS 2022b).

The Delta and Eastside Streams area includes most of Sacramento and San Joaquin counties and some areas of Alameda, Amador, Calaveras, Contra Costa, Solano, Stanislaus, and Yolo counties. This area is drained toward the Delta by the Sacramento, San Joaquin, Consumes, Mokelumne, and Calaveras rivers. With multiple rivers coming together, the Delta is an estuary instead of a typical delta that is one river expanding outside of its channel width (USGS 2022c).

The project is entirely within the Eastern San Joaquin Subbasin of the San Joaquin Valley Hydrologic Region (DWR 2020) as shown on Figure 5.10-1. The Consumes Subbasin of the San Joaquin Valley Groundwater Basin is north of the Mokelumne River.

The local topography generally is flat with rolling hills rising to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project.

The majority of the project area consists of agricultural lands with some isolated rural residential and single-family residential land use throughout San Joaquin County. The land uses are predominantly industrial where the project is within the City of Lodi.

5.10.1.3 Climate

The project area is in a Mediterranean-type climate zone typical of central California. This zone is characterized by cool, wet winters and hot, dry summers, with winds typically blowing from the northwest. Typical of the San Joaquin Valley, the project site is situated in the rain shadow of the Coast Ranges, resulting in average annual precipitation of 13.45 inches in the Stockton area between 1991 and 2020 (NOAA 2022). Periods of abundant rainfall and prolonged droughts are frequent in the historical record.

5.10.1.4 Waterbodies

The project area is south of the Mokelumne River (refer to Figure 5.10-2). Regionally, the Mokelumne River and streams drain to the San Joaquin River, or some steams drain to closed basins in the San Joaquin Valley. All but the larger streams are dry during the summer. Much of the natural hydrology in the vicinity of the project has been altered by channel realignments, diversions for irrigation, and other water control measures. Surface hydrology within the project area is influenced primarily by stormwater runoff into drainage channels, some of which then drain to larger linear features. Paddy Creek drains westward to Bear Creek, which continues flowing to the southwest. Bear Creek outlets into Pixley Slough approximately 9 miles southwest of the project area, which then drains to the San Joaquin River.

The dominant hydrologic features within the project area include the intermittent Paddy Creek and the perennial Bear Creek, as well as constructed irrigation pipeline, canals, and ditches, as shown on Figure 5.10-2. PG&E poles, or PG&E or LEU station areas, will not be located within these waterbodies; however, the project's new PG&E 230 kV transmission line will cross over Paddy Creek, Bear Creek, and several irrigation features.

The project traverses the Lower Mokelumne River, Middle River-San Joaquin River, and Bear Creek watersheds and is within 3 miles of the Calaveras River and Fivemile Creek-San Joaquin River watersheds, as shown on Figure 5.10-3. The Calaveras River and Fivemile Creek-San Joaquin River watersheds drain south away from the project toward and through the City of Stockton. The drainage basin of the Lower Mokelumne River watershed encompasses more than 221 square miles north of the Comanche Reservoir to the San Joaquin River. The drainage basin of the Middle River-San Joaquin River watershed includes approximately 212 square miles and is mainly to west-southwest of the project area, where the San Joaquin River enters the Delta and joins the Sacramento River. The drainage basin of the Bear Creek watershed covers about 127 square miles from south of the Comanche Reservoir to north of Stockton (CWIP 2022). The existing LEU Industrial Substation, the new LEU Guild Substation, the new PG&E Thurman Switching Station, the existing PG&E 60 kV lines, and about 0.5 mile of the westernmost end of the new PG&E 230 kV transmission line, Lockeford-Thurman, all lie in a southern portion of the Lower Mokelumne River watershed (Figure 5.10-3). Moving eastward along the proposed PG&E Lockeford-Thurman Line, about 1.8 miles of the new line is in the Middle River-San Joaquin River watershed. The eastern portion of PG&E's Lockeford-Thurman Line (about 4.25 miles), PG&E Lockeford Substation, and all of the new PG&E Brighton/Bellota-Lockeford line is within the Bear Creek watershed. For a description of wetlands in the project area, refer to Section 5.4, Biological Resources.

Paddy and Bear Creeks

The proposed PG&E Brighton/Bellota-Lockeford Line crosses Paddy Creek approximately 0.7 mile east of PG&E Lockeford Substation and PG&E's proposed Lockeford-Thurman Line crosses Bear Creek approximately 1.3 miles southwest of PG&E Lockeford Substation. Both creeks are within the Bear Creek watershed. Where the proposed PG&E transmission line crosses these creeks, the creeks are concrete-lined with levees. Paddy Creek originates as a natural stream about 3.5 miles east of the eastern end of the project at PG&E's Brighton-Bellota Line. The drainage area of the segment of Paddy Creek that traverses the project area is 14.45 square miles (EPA 2019a). After crossing the project area, Paddy Creek becomes channelized as it converges with the Middle Paddy and South Paddy creeks prior to connecting to Bear Creek.

Where the PG&E transmission line crosses over non-navigable canals or waterways, the PG&E 230 kV crossings will be designed to meet the GO 95 vertical clearance requirement of 28 feet. PG&E Brighton-Bellota Line extension (E17-E18) will cross over the channelized Paddy Creek and PG&E Thurman-Lockeford Line (W10-W11) will cross over the channelized Bear Creek. These two creeks are CVFPB regulated streams and federal levees. The planned vertical clearance exceeds the Title 23 (23 CCR Section 120 and Section 123) vertical clearance requirement of 25 feet for aerial levee crossings of power lines that are more than 75 kV. Additionally, the PG&E 230 kV structures and temporary work areas are all designed to be more than 25 feet from the landward side of the landside levee toe to each side of the channelized non-navigable canals, which exceeds the Title 23 distance of 10 feet. PG&E 230 kV structures are setback from the landside toe of the channelized creeks with structure E18 at approximately 100 feet, structure W7 at approximately 160 feet, structure W9 at approximately 290 feet, and structure W11 at approximately 60 feet.

Bear Creek originates in the region near Valley Springs, California. It runs downstream for 45 miles and is a tributary to the San Joaquin River. Bear Creek has levee improvements on both banks upstream to the confluence of Paddy Creek. The segment of Bear Creek in the project area has a watershed drainage area of 80.61 square miles (EPA 2019b). Refer to Table 5.10-1.

Table 5.10-1. Waterbodies in the Project Area

Waterbody Name	Distance from, and Name of Nearest Project Component	Waterbody Type	Water Quality Classification
Paddy Creek	Approximately 100 feet from levee slope toe to PG&E Brighton/Bellota-Lockeford Structure E18, at milepost 3.20 from the east end of the alignment	Ephemeral	n/a
Bear Creek	Approximately 65 feet from levee slope toe to PG&E Lockeford-Thurman Structure W11, at milepost 5.24 from the east end of the alignment	Perennial	n/a

Note:
n/a = not applicable

Other Irrigation Canals/Pipelines

The project is within the NSJWCD. There are no District canals in the project vicinity; however, the NSJWCD – along with San Joaquin County, East Bay Municipal Utility District, and Eastern Water Alliance – developed a piping system to move water from the Mokelumne River's South Pump Station to farmers for irrigation through the South Pipeline, which traverses agricultural areas east of the City of Lodi. These canals/pipes provide an important source of water for the surrounding agricultural lands. The PG&E 230 kV transmission line, Lockeford-Thurman, would cross the South Pipeline aboveground near PG&E Structure W22 along an existing farm road between Alpine Road and North Locust Tree Road, north of Harney Lane (NSJWCD 2020).

Pixley Slough

Pixley Slough is a stream tributary to the San Joaquin River and the Sacramento-San Joaquin River Delta. It originates at Bear Creek south of East Harney Lane and near SR 88 (refer to Figure 5.10-2). Pixley Slough is approximately 2 miles south of the proposed PG&E Lockeford-Thurman Line and PG&E's Lockeford Substation. Pixley Slough is within the Bear Creek watershed (refer to Figure 5.10-3).

Mokelumne River

The Mokelumne River is a major tributary of the Sacramento-San Joaquin River Delta that meanders north of the project site and is approximately 0.5 mile north of the northernmost point of the project, the northern end of PG&E's Industrial Tap 60 kV line in Lodi. Its headwaters lie at the Camanche Reservoir and it flows westward from its source in the central Sierra Nevada Range through San Joaquin County, meandering westward into the San Joaquin River approximately 22 miles west of the project (refer to Figure 5.10--2).

5.10.1.5 Flooding

FEMA administers the National Flood Insurance Program (NFIP), which subsidizes flood insurance to communities that limit development in floodplains. As part of this program, FEMA maps all U.S. areas that fall within a 100-year floodplain (that is, areas with a greater-than-1% annual probability of flooding). Flood hazard areas identified on the Flood Insurance Rate Map (FIRM) are identified as a special flood hazard area (SFHA), which is defined as the area that will be inundated by the flood event having a 1% chance of being equaled or exceeded in any given year. The 1% annual-chance flood also is referred to as the base flood or 100-year flood and the area is labeled as a FEMA Zone A type. Moderate flood hazard areas, labeled Zone B or Zone X (shaded), also are shown on the FIRM and are the areas between the limits of the base flood and the 0.2% annual-chance flood (or 500-year flood). The flood hazards of the project area are shown on Figure 5.10-4.

The eastern extent of the project, from the eastern endpoint at PG&E's Brighton-Bellota Line to PG&E's proposed Brighton/Bellota-Lockeford Structure E15, is in FEMA Zone X, which is an area of minimal flood hazard determined to be outside the 0.2% annual-chance floodplain (FEMA 2021). Moving westward, PG&E proposed Brighton/Bellota-Lockeford Structures E15, E16, and E17 are within FEMA Zone A, an SFHA without base flood elevation. Structure E18 is within a regulatory floodway Zone AH, an area subject to inundation by 1% annual chance of shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. The project is again within a FEMA Zone X (that is within the 0.2% annual-chance floodplain) from PG&E's Brighton/Bellota-Lockeford Structure E19 into PG&E's Lockeford Substation. As the PG&E Lockeford-Thurman Line leaves PG&E's Lockeford Substation, Structures W2, W3, W4, W5, and W11 are within a FEMA Zone X, that is an area with reduced flood risk because of the Bear Creek – Paddy Creek west bank levee. PG&E Lockeford-Thurman Structures W6, W7, W8, W9, and W10 are within FEMA Zone AH again. West of SR 88, the PG&E Lockeford-Thurman Line (Structures W12 to W18) again enters FEMA Zone X within the 0.2% annual-chance floodplain. Moving west, the PG&E Lockeford-Thurman Line traverses back into FEMA Zone X outside of the 0.2% annual-chance floodplain from Structure W19 near North Locust Road to Structure W33 near Curry Avenue. From PG&E Structure W34, where the new Lockeford-Thurman Line turns north, the proposed PG&E line is in FEMA Zone X (with 0.2% annual-chance floodplain) along with the PG&E 60 kV lines, proposed PG&E Thurman Switching Station, proposed LEU Guild Substation, and existing LEU Industrial Substation within the City of Lodi.

5.10.1.6 Water Quality

Paddy and Bear Creeks are not on the Section 303(d) impaired waters list. San Joaquin River is on the Section 303(d) impaired waters list for segments upstream of the confluence with Bear Creek. No known downstream segments of the San Joaquin River are on the Section 303(d) impaired waters list.

5.10.1.7 Groundwater Basin

The project is entirely within the Eastern San Joaquin Groundwater Subbasin of the San Joaquin Groundwater Basin. The state-designated subbasin (basin number 5-022.01) is west of the Sacramento-

San Joaquin River Delta and is bounded by the Sierra Nevada foothills to the east, the San Joaquin River to the west, Dry Creek to the north, and the Stanislaus River to the south. In the eastern part of the subbasin, groundwater flows from east to west and generally mirrors the eastward-sloping topography of the geologic formations. In the western part of the subbasin, groundwater flows eastward toward areas with relatively lower groundwater elevation (San Joaquin County Department of Public Works 2004). Groundwater levels in some areas of the subbasin have declined over the years, while groundwater levels in other areas within the subbasin were stable or increased within recent years (ESJGA 2022). For example, the central portion of the subbasin experienced the greatest declines in groundwater levels while the western and southern portions of the subbasin experienced less change in groundwater levels because of lower groundwater pumping in the western subbasin and the use of surface water for agricultural and urban uses (ESJGA 2022). The location of the project within the basin and the subbasin is shown on Figure 5.10-1.

5.10.1.8 Groundwater Wells and Springs

Within 150 feet of the project, one municipal groundwater well and one water supply well were identified, as shown on Figure 5.10-5 (SWRCB 2021). The municipal well is immediately south of LEU's Industrial Substation at a City of Lodi well tank and pump station, and the water supply well is mapped west of PG&E's Lockeford-Thurman Line near Structure W42. A potential irrigation well, observed during field reviews in 2019 along North Jory Road, would be avoided by the span between PG&E's Brighton/Bellota-Lockeford Structures E9-E10. The nearest spring is approximately 3.8 miles to the northeast of the project (USGS 2023).

5.10.1.9 Groundwater Management

In 2014, the California legislature enacted the Sustainable Groundwater Management Act (SGMA) in response to continued overdraft of California's groundwater resources. The Eastern San Joaquin Groundwater Subbasin is one of 21 basins and subbasins identified by the California DWR as being in a state of critical overdraft. SGMA requires preparation of a Groundwater Sustainability Plan (GSP) to address measures necessary to attain sustainable conditions in the subbasin. The ESJGA was formed in 2017 in response to SGMA. SGMA requires development of a GSP that achieves groundwater sustainability in the subbasin by 2040. The GSP outlines the need to reduce overdraft conditions and has identified 23 projects for potential development that either replace groundwater use (offset) or supplement groundwater supplies (recharge) to meet current and future water demands (ESJGA 2019).

Groundwater resources in the Eastern San Joaquin Groundwater Subbasin have not been adjudicated. The ESJGA developed the *Eastern San Joaquin Groundwater Sustainability Plan* (Eastern San Joaquin GSP) to meet SGMA regulatory requirements by the January 31, 2020, deadline for critically overdrafted basins, while reflecting local needs and preserving local control over water resources. The Eastern San Joaquin GSP provides a path to achieve and document sustainable groundwater management within 20 years following adoption, promoting the long-term sustainability of locally managed groundwater resources now and into the future. Groundwater sustainability agencies within the project area include the City of Lodi and NSJWCD (ESJGA 2019). DWR determined the Eastern San Joaquin GSP to be incomplete in January 2022 (DWR 2022). Subsequently, in March 2023, DWR informed San Joaquin County Public Works that staff anticipate recommending approval of the resubmitted Eastern San Joaquin GSP (DWR 2023). The Eastern San Joaquin GSP has established a network of monitors to evaluate progress on sustainable management criteria. Groundwater elevations generally decreased throughout the Water Year (WY) 2021 for almost all wells in the representative monitoring network with groundwater level data available; no wells reported groundwater levels below the minimum thresholds established in the GSP (ESJGA 2022). From the beginning to the end of WY 2021, storage in the Eastern San Joaquin Subbasin decreased by 157,000 acre-feet (AF). This volume represents about 0.3% of the total fresh groundwater in storage, which was estimated to be more than 50 million acre-feet (MAF) in 2015 (ESJGA 2022).

The City of Lodi's primary source of water is groundwater that it pumps using 28 groundwater production wells distributed throughout the water service area. The 28 wells, which draw from the Eastern San Joaquin Groundwater Subbasin, have a combined capacity of 38,355 gallons per minute, with a maximum capacity at this rate of approximately 62,000 AFY (City of Lodi 2021). The wells operate automatically on

water pressure demand and pump directly into the distribution system. In 2020, the City pumped 7,475 AF of groundwater.

5.10.2 Regulatory Setting

5.10.2.1 Federal

Clean Water Act Section 303(d)

Section 303(d) of the CWA (33 USC 1251-1376) requires states, territories, and authorized tribes to develop a list of impaired waters within their boundaries that do not meet water quality standards and objectives, even after point sources of pollution have installed the minimum required levels of pollution control technology. The Section 303(d) list is the state's list of impaired and threatened waters (stream/river segments, lakes). States are required to submit their lists for EPA consideration every 2 years. For each water on the list, the state identifies the pollutant causing the impairment, when known. The law further requires that these jurisdictions establish priority rankings for waters on the list and develop action plans, called Total Maximum Daily Loads, to improve water quality (SWRCB 2012). The RWQCBs and the SWRCB implement this federal regulation in California.

Clean Water Act Section 401

Under CWA Section 401, a federal agency may not issue a permit or license to conduct any activity that may result in any discharge into waters of the United States unless a Section 401 water quality certification is issued, or certification is waived. States and authorized tribes where the discharge would originate are generally responsible for issuing water quality certifications. Major federal licenses and permits subject to Section 401 include CWA Section 402 and Section 404 permits issued by EPA or the USACE. In making decisions to grant, grant with conditions, or deny certification requests, certifying authorities consider whether the federally licensed or permitted activity will comply with applicable water quality standards, effluent limitations, new source performance standards, toxic pollutant restrictions, and other appropriate water quality requirements of state or tribal law.

Clean Water Act Section 402

Under CWA Section 402 (33 USC 1251 et seq.), the National Pollutant Discharge Elimination System (NPDES) controls water pollution by regulating point sources of pollution to waters of the U.S. The SWRCB administers the NPDES permit program in California. Projects that disturb 1 acre or more of soil are required to obtain coverage under the state NPDES General Permit for Discharges of Stormwater Associated with Construction Activity. An SWPPP must be developed and implemented for each project covered by the Construction General Permit (CGP). The SWPPP must include best practices that are designed to reduce potential impacts to surface water quality during project construction and operation.

Some local agencies operate stormwater systems under a federal municipal separate storm sewer system (MS4) permit issued by the SWRCB and/or RWQCB. To comply with the permit, the local agency may impose post-construction stormwater requirements for new facilities, such as substations, through municipal ordinances and regulations. The City of Lodi's Stormwater Management Program requires construction site runoff control for sites disturbing more than 1 acre to be managed through development, implementation, and enforcement of a program to reduce pollutants in any stormwater runoff (City of Lodi 2012). If stormwater runoff from utility projects cannot be infiltrated onsite, the City of Lodi's *Post Construction Stormwater Standards Manual* requires excess stormwater runoff from newly created impervious surfaces greater than 5,000 contiguous square feet to be managed through the use of practices identified in the EPA's *Managing Wet Weather with Green Infrastructure Municipal Handbook Green Streets* (EPA 2021). A Project Stormwater Plan is required for a Hydromodification Management Project (a project creating more than or equal to1 acre of impervious surface) as a part of the Operations and Maintenance Plan to design for and control stormwater (Cities 2015). Although PG&E will comply with stormwater requirements derived from state and federal law, local ordinances do not otherwise apply to the project.

Clean Water Act Section 404

CWA Section 404 establishes a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects (such as dams and levees), infrastructure development (such as highways and airports) and mining projects. Section 404 requires a permit before dredged or fill material may be discharged into waters of the United States, unless the activity is exempt from Section 404 regulation. No discharge of dredged or fill material may be permitted if a practicable alternative exists that is less damaging to the aquatic environment or if the nation's waters would be significantly degraded.

National Flood Insurance Program

FEMA is responsible for determining flood elevations and floodplain boundaries based on USACE studies. FEMA also is responsible for distributing the FIRMs used in the NFIP (42 USC Chapter 50, Section 4102). These maps identify the locations of SFHAs, including 100-year floodplains. FEMA allows nonresidential development in the floodplain; however, FEMA has criteria to "… constrict the development of land which is exposed to flood damage where appropriate" and to "… guide the development of proposed construction away from locations which are threatened by flood hazards." Federal regulations governing development in a floodplain are set forth in 44 CFR Part 60, enabling FEMA to require municipalities that participate in the NFIP to adopt certain flood hazard reduction standards for construction and development in 100-year floodplains.

Oil Pollution Prevention Regulation

Originally published in 1973 under the authority of Section 311 of the CWA, the Oil Pollution Prevention regulation sets forth requirements for the prevention of, preparedness for, and response to oil discharges at specific nontransportation-related facilities that store oil at certain volume thresholds (total aggregate capacity of aboveground oil storage containers is greater than 1,320 gallons or completely buried storage tanks is greater than 42,000 gallons). The goal of this regulation (40 CFR 112) is to prevent oil from reaching navigable waters and adjoining shorelines, and to contain discharges of oil. The regulation requires these facilities to develop and implement SPCC plans and establishes procedures, methods, and equipment requirements.

5.10.2.2 State

Porter-Cologne Water Quality Control Act (California Water Code, Division 7)

Under this state law, the SWRCB has authority over state waters and water quality. "Waters of the state" are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code Section 13050[e]). Examples include rivers, streams, lakes, bays, marshes, mudflats, unvegetated and seasonally ponded areas, drainage swales, sloughs, wet meadows, natural ponds, vernal pools, diked baylands, seasonal wetlands, and riparian woodlands. The RWQCBs have local and regional authority. The Central Valley RWQCB has authority in the project area. The RWQCBs prepare and periodically update Basin Plans (water quality control plans), which establish:

- Beneficial uses of water designated for each protected waterbody
- Water quality standards for both surface water and groundwater
- Actions necessary to maintain these water quality standards

Projects that will discharge waste to waters of the state must file a report of waste discharge with the appropriate RWQCB, if the discharge could affect the quality of waters of the state (Article 4, Section 13260). The RWQCB will issue waste discharge requirements or a waiver of the waste discharge requirements for the project. The requirements will implement any relevant water quality control plans that have been adopted and must take into consideration the beneficial uses to be protected and the water quality objectives reasonably required for that purpose (Article 4, Section 13263).

Fish and Game Code, Section 1602

This section of California law protects the natural flow, bed, channel, and bank of any river, stream, or lake under the jurisdiction of the CDFW. Notification to CDFW is required for activities that would:

- Substantially divert or obstruct the natural flow of a jurisdictional river, stream, or lake
- Substantially change or use material from the bed, channel, or bank of a jurisdictional river, stream, or lake
- Deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can flow into a river, stream, or lake

CDFW reviews the notification and determines if the activity may substantially adversely affect fish and wildlife resources. If so, CDFW will issue a Streambed Alteration Agreement for the activity.

Fish and Game Code, Section 5650

This section of California law makes is unlawful to deposit in, to permit to pass into, or to place where it can pass into waters of the state specific pollutants or any substance or material deleterious to fish, plant life, mammals, or bird life.

Central Valley Water Quality Control Plan

The objective of the *Central Valley Water Quality Control Plan* for the Central Valley Region, the Sacramento River Basin, and the San Joaquin River Basin (RWQCB 2019) is to guide how the quality of surface and groundwaters in the region should be managed. The Basin Plan identifies various beneficial water uses and the water quality that must be maintained to allow those uses to continue. The Basin Plan also describes an implementation plan necessary to achieve the standards established in the plan and summarizes SWRCB and RWQCB plans and policies to protect water quality. The Central Valley RWQCB implements the plan by issuing and enforcing waste discharge requirements based on either state waste discharge requirements or federally delegated NPDES permits for discharges to surface water.

Urban Water Management Planning Act

California's DWR reviews submitted Urban Water Management Plans (UWMPs) that are prepared by urban water suppliers every 5 years. These plans support the suppliers' long-term resource planning to ensure that adequate water supplies are available to meet existing and future water needs. The requirements for UWMPs are found in California Water Code, Section 10608 and Section 10610 through 10656. Every urban water supplier that either provides more than 3,000 acre-feet of water annually or serves more than 3,000 urban connections is required to submit a UWMP. Urban water suppliers must meet the following criteria in their UWMPs:

- Assess the reliability of water sources over a 20-year planning time frame.
- Describe demand management measures and water shortage contingency plans.
- Report progress toward meeting a targeted 20% reduction in per-capita (per-person) urban water consumption by the year 2020.
- Discuss the use and planned use of recycled water.

The information collected from the submitted UWMPs is useful for local, regional, and statewide water planning.

Sustainable Groundwater Management Act

In September 2014, legislation was passed to strengthen local management and monitoring of groundwater basins most critical to the state's water needs. The SGMA prioritizes groundwater basins that currently are overdrafted and sets a timeline for implementation:

- By 2017, local groundwater management agencies must be identified.

- By 2020, overdrafted groundwater basins must have sustainability plans.
- By 2022, other high- and medium-priority basins not currently in overdraft must have sustainability plans.
- By 2040, all high- and medium-priority groundwater basins must achieve sustainability.

The SGMA also provides measurable objectives and milestones to reach sustainability and a state role of limited intervention when local agencies are unable or unwilling to adopt sustainable management plans.

5.10.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies. The Public Works Department of the City of Lodi and the San Joaquin County Department of Public Works both require and enforce standards contained in the California Building Code related to grading and construction, including those that may directly or indirectly affect surface water quality by contributing to erosion or siltation or alter existing drainage patterns.

Eastern San Joaquin Groundwater Sustainability Plan

As discussed in Section 5.10.1.9, the ESJGA developed the Eastern San Joaquin GSP to meet SGMA regulatory requirements by the January 31, 2020, deadline for critically overdrafted basins, while reflecting local needs and preserving local control over water resources. In March 2023, DWR informed San Joaquin County Public Works that staff anticipate recommending approval of the resubmitted Eastern San Joaquin GSP, which includes sustainable management criteria, defines monitoring networks and data management systems, and identifies projects for implementation.

5.10.3 Impact Questions

The project's potential effects on hydrology and water quality were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.10-2 and discussed in more detail in Section 5.10.4.

Table 5.10-2. CEQA Checklist for Hydrology and Water Quality

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i. result in substantial erosion or siltation on- or off-site	☐	☐	☒	☐
ii. substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site	☐	☐	☒	☐
iii. create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv. impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

5.10.3.1 Additional CEQA Impact Questions

None.

5.10.4 Potential Impacts Analysis

The following subsections describe significance criteria for hydrology and water quality impacts derived from Appendix G of the CEQA Guidelines; provide APMs and BMPs; and assess potential project-related construction, operation, and maintenance impacts on hydrology and water resources. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.10.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project-related impacts on hydrology and water quality resources were evaluated for each of the criteria listed in Table 5.10-2, as discussed in Section 5.10.4.3.

5.10.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs:

APM HYD-1: Prepare and Implement an SWPPP for PG&E Project Components. Stormwater discharges associated with project construction activities are regulated under the CGP. Cases in which construction will disturb more than 1 acre of soil require submittal of a Notice of Intent, development of an SWPPP (both certified by the Legally Responsible Person), periodic monitoring and inspections, retention of monitoring records, reporting of incidences of noncompliance, and submittal of annual compliance reports. PG&E will comply with all CGP requirements for construction of PG&E project components.

Following project approval, PG&E will prepare and implement a SWPPP, which will address erosion and sediment control concerns to minimize construction impacts on surface water quality, as well as reduce the potential for stormwater runoff to impact adjacent properties. The SWPPP will be designed specifically for the hydrologic setting of the proposed project (surface topography, storm drain configuration, and other factors) at PG&E project components. Implementation of the SWPPP will help stabilize graded areas and reduce erosion and sedimentation. The SWPPP will propose best practices that will be implemented during construction activities. Erosion and sediment control measures– such as straw wattles, erosion control blankets, and silt fences – will be installed in compliance with the SWPPP. Suitable soil stabilization measures will be used to protect exposed areas during construction activities, as specified in the SWPPP. During construction activities, measures will be implemented to reduce exposure of construction materials and wastes to stormwater. Measures will be installed following manufacturer's specifications and according to standard industry practice.

Erosion and sediment control measures may include the following:

- Straw wattle, silt fence, or gravel bag berms
- Trackout control at all entrances and exits
- Stockpile management
- Effective dust control measures
- Good housekeeping measures
- Stabilization measures, which may include wood mulch, gravel, and/or seeding

Identified erosion and sediment control measures will be installed prior to the start of construction activities and will be inspected and improved as required by the CGP Temporary sediment control measures intended to minimize sediment transport from temporarily disturbed areas such as silt fences or wattles will remain in place until disturbed areas are stabilized. In areas where soil is to be temporarily stockpiled, soil will be placed in a controlled area and will be managed using industry-standard stockpile management techniques. Where construction activities occur near a surface waterbody or drainage channel, the staging of construction materials and equipment and excavation spoil stockpiles will be placed and managed in a manner to minimize the risk of sediment transport to the drainage. Any surplus soil will be transported from the site and disposed of in accordance with federal, state, and local regulations.

The SWPPP will identify areas where refueling and vehicle-maintenance activities and storage of hazardous materials will be permitted, if necessary. A copy of the SWPPP will be provided to CPUC for recordkeeping. The plan will be maintained and updated during construction as required by the CGP.

BMP HYD-1: Prepare and Implement an SWPPP for LEU Project Components. Stormwater discharges associated with project construction activities are regulated under the CGP. Cases in which construction will disturb 1 acre or greater of soil require submittal of a Notice of Intent, development of an SWPPP (both certified by the Legally Responsible Person), periodic monitoring and inspections, retention of monitoring records, reporting of incidences of noncompliance, and submittal of annual compliance reports. LEU will comply with all CGP requirements for construction of LEU project components.

Following project approval, LEU will prepare and implement a SWPPP, which will address erosion and sediment control concerns to minimize construction impacts on surface water quality, as well as reduce the potential for stormwater to impact adjacent properties. The SWPPP will be designed specifically for the hydrologic setting of the proposed project (surface topography, storm drain configuration, and other factors) at LEU project components. Implementation of the SWPPP will help stabilize graded areas and

reduce erosion and sedimentation. The SWPPP will propose best practices that will be implemented during construction activities. Erosion and sediment control measures – such as straw wattles, erosion control blankets, and silt fences – will be installed in compliance with the CGP. Suitable soil stabilization measures will be used to protect exposed areas during construction activities, as specified in the SWPPP. During construction activities, measures will be implemented to reduce exposure of construction materials and wastes to stormwater. Measures will be installed following manufacturer's specifications and according to standard industry practice.

Erosion and sediment control measures may include the following:

- Straw wattle, silt fence, or gravel bag berms
- Trackout control at all entrances and exits
- Stockpile management
- Effective dust control measures
- Good housekeeping measures
- Stabilization measures, which may include wood mulch, gravel, and/or seeding

Identified erosion and sediment control measures will be installed prior to the start of construction activities and will be inspected and improved as required by the CGP. Temporary sediment control measures intended to minimize sediment transport from temporarily disturbed areas such as silt fences or wattles will remain in place until disturbed areas are stabilized. In areas where soil is to be temporarily stockpiled, soil will be placed in a controlled area and will be managed using industry-standard stockpile management techniques. Where construction activities occur near a surface waterbody or drainage channel, the staging of construction materials and equipment and excavation spoil stockpiles will be placed and managed in a manner to minimize the risk of sediment transport to the drainage. Any surplus soil will be transported from the site and disposed of in accordance with federal, state, and local regulations.

The SWPPP will identify areas where refueling and vehicle-maintenance activities and storage of hazardous materials will be permitted, if necessary. The plan will be maintained and updated during construction as required by the CGP.

APM HYD-2: PG&E Worker Environmental Awareness Program. The PG&E worker environmental awareness program will be developed and provided separately to CPUC staff prior to construction. The worker environmental awareness program will communicate environmental issues and appropriate work practices specific to PG&E project components to all field personnel. These will include spill prevention and response measures and proper implementation of best practices. A copy of the PG&E worker environmental awareness program record will be provided to CPUC for recordkeeping at the completion of the project. A PG&E environmental monitoring program also will be implemented to ensure that the plans are followed throughout the construction period for PG&E project components.

BMP HYD-2: LEU Worker Environmental Awareness Program. LEU's worker environmental awareness program will communicate environmental issues and appropriate work practices specific to LEU project components to all field personnel. These will include spill prevention and response measures and proper implementation of best practices. An LEU environmental monitoring program also will be implemented to ensure that the plans are followed throughout the construction period for LEU project components.

APM HYD-3: Project Site Restoration. As part of the final construction activities, PG&E will restore all removed curbs and gutters, repave, and restore landscaping or vegetation as necessary for its portion of the project.

BMP HYD-3: Project Site Restoration. As part of the final construction activities, LEU will restore all removed curbs and gutters, repave, and restore landscaping or vegetation as necessary for its portion of the project.

APM HYD-4: SPCC Plan for PG&E Thurman Switching Station and SPCC Plan Modification for PG&E Lockeford Substation. PG&E will prepare an SPCC plan for PG&E Thurman Switching Station for implementation during operation, and the existing PG&E Lockeford Substation SPCC Plan will be modified prior to operation of the expanded facility, as required by applicable regulations (40 CFR 112). An SPCC plan includes engineered and operational methods for preventing, containing, and controlling potential releases (for example, construction of a retention pond, moats, or berms) as well as provisions for quick and safe cleanup.

BMP HYD-4: SPCC Plan for LEU Guild Substation and SPCC Plan Modification for LEU Industrial Substation. LEU will prepare an SPCC plan for LEU Guild Substation for implementation during operation, and the existing LEU Industrial Substation SPCC Plan will be modified prior to operation of the expanded facility, as required by applicable regulations (40 CFR 112). An SPCC plan includes engineered and operational methods for preventing, containing, and controlling potential releases (for example, construction of a retention pond, moats, or berms) as well as provisions for quick and safe cleanup.

APM HYD-5: Project Stormwater Plan for PG&E Thurman Switching Station. PG&E will prepare a Project Stormwater Plan for PG&E's Thurman Switching Station to submit to the City of Lodi as part of it building permit and to align with the City of Lodi's Stormwater Management and Discharge Control Code, Lodi Municipal Code Chapter 13.14. The plan will include proposed site design and control measures and postconstruction stormwater runoff calculations showing pre-project and post-project volumes.

BMP HYD-5: Project Stormwater Plan for LEU Guild Substation. LEU will prepare a Project Stormwater Plan for LEU Guild Substation to align with the City of Lodi's Stormwater Management and Discharge Control Code, Lodi Municipal Code Chapter 13.14. The plan will include proposed site design and control measures and postconstruction stormwater runoff calculations showing pre-project and post-project volumes.

5.10.4.3 Potential Impact Analysis

Project impacts related to hydrology and water quality were evaluated against the CEQA significance criteria, as discussed in the following sections. Potential project impacts from the construction phase and the operation and maintenance phase are evaluated. For impacts to federally protected wetlands and other sensitive natural communities, refer to Section 5.4.

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E's Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E's Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E's Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU's Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E's Lockeford and Lodi substations. LEU distribution and third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations, Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

Project work at PG&E remote-end substations will include updating system protection schemes within control rooms, extending existing fiber telecommunication line, and potentially removing redundant telecommunication equipment within existing fenced station facilities in area of previous ground-disturbance with existing station stormwater onsite containment. Project work at PG&E's Clayton Hill

Repeater Station will be adding two new antennas to an existing telecommunication tower and will not impact hydrology or water quality.

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The project will not violate any water quality standards or waste discharge requirements. Project temporary and permanent areas and access have been sited to avoid surface water, including waterways and wetlands. The project will have no impact on riparian habitats or wetlands, as described in Section 5.4. Additionally, while the proposed PG&E 230 kV alignment spans over Paddy and Bear creeks, these are not on the Section 303(d) impaired waters list. No known downstream segments of the San Joaquin River are on the Section 303(d) list. Wastewater generated during construction will be contained within portable restrooms and disposed of by a licensed contractor. No wastewater would be discharged from the project work areas.

No work is proposed within Paddy Creek or Bear Creek. The new transmission lines will span Paddy Creek and Bear Creek to meet the vertical clearance requirement of 28 feet. The PG&E 230 kV structures and temporary work areas are all designed to be more than approximately 25 feet from the landward side of the landside levee toe on either side of the waterways, which exceeds the Title 23 distance of 10 feet. Temporary guard structures, described in Section 3.5.5.4 and shown in Figure 3.5-3, will be installed over waterways during pull-and-tension activities should the conductor fall from the structures during construction. The temporary guard structures also would be installed outside the waterbodies.

Potential impacts during project construction include erosion, increased runoff and sedimentation, and release of hazardous materials from construction equipment and vehicles. The project will include station grading in the main project area; excavations for station equipment, line structures, and guard structures; and limited soil disturbance at pull and tension sites, structure work areas, staging areas, and along unpaved roads and temporary access routes. HDD work and trenching for the PG&E 12 kV secondary service line will occur within paved roadway where nearby stormwater catch basins will be protected per the PG&E SWPPP. Ground-disturbing work at PG&E's Bellota, Brighton, and Rio Oso substations will only occur if the retiring telecommunication equipment is removed instead of disconnected and retired in place. These ground-disturbance areas will be included in the PG&E SWPPP. Removal will include excavation to a 4-foot depth to excavate around the footings and cut them off below ground. The ground would be recontoured, soil compacted, and station rock base applied after the equipment and footings are removed. The remote-end substations are designed to contain runoff onsite and impacts to hydrology and water quality are unlikely. A small, temporary stockpile of excavated soil may be located near an excavation to be used for backfill or salvaged agricultural topsoil. Construction activities conducted during the rainy season have the potential for increasing erosion and sediment transport locally.

PG&E will assess the risk to water quality based on site-specific soil characteristics and slope and will develop an SWPPP to address potential water quality concerns, as described in APM HYD-1. The SWPPP will specify measures for activities with the potential to degrade surrounding water quality through erosion, sediment runoff, and the presence of other pollutants. Accidental releases of hazardous materials that are used during construction – for example, diesel fuel, hydraulic fluid, or oils and grease – will have the potential to occur. An accidental release of fuel or lubricant at the surface or within excavations poses minimal risk to groundwater quality, given the small amounts of material used, depth to groundwater, and spill response procedures, as described in Section 5.9. This potential impact will be avoided and minimized by implementing best practices adopted to control nonstormwater discharges under APM HYD-1 and by APM HAZ-1, which is discussed in Section 5.9.5.2. The PG&E SWPPP measures will be implemented and monitored throughout the project's construction by a qualified SWPPP practitioner. Additionally, the generally flat topography further reduces the potential for construction-related impacts.

Although it is not expected to occur, if groundwater is encountered during construction, APM HAZ-5 will be implemented.

The project is not expected to use or store large quantities of hazardous materials. Fuel, grease, and fluids needed for equipment operation will be onsite periodically; these will be handled, in keeping with the PG&E SWPPP and APM HAZ-1, APM HYD-1, and APM HYD-2, for proper use, storage, and cleanup (if warranted).

In summary, during construction the potential impact under this criterion is associated with an accidental nonstormwater discharge, which is expected to be minimal and any impact further minimized with implementation of APM HYD-1 and APM HAZ-1. Therefore, the project is not expected to violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality; and the potential impact will be less than significant.

During the operation and maintenance phase, site restoration will be complete (refer to APM HYD-3) and additional runoff within Thurman Switching Station and Lockeford Substation will be directed to the new and expanded onsite detention basins, avoiding the potential for impact to water quality. Water quality could potentially be impacted through inadvertent spills or discharges from equipment malfunctions or from vehicles or equipment used during inspections or maintenance, which could wash into nearby stormwater inlets or drainages or infiltrate soil to the water table. With implementation of PG&E SPCC plans for Thurman Switching Station and Lockeford Substation described in APM HYD-4, an accidental release during operation and/or maintenance of the project is unlikely to occur; therefore, impacts would be less than significant. Maintenance activities may use limited amounts of water for washing equipment as well as use pollutant sources, including oils, paints, and solvents used for routine maintenance. If transmission line insulator washing is required every 5 years at most, the majority of water sprayed would evaporate after washing the insulator. Depending on humidity and wind, typically a minimal amount of dispersed water droplets would fall to the ground. Washing is usually less than 1 minute per insulator. Assuming no wind and high humidity, the amount of water under a transmission structure after its conductors are washed would have the appearance of a minimal amount of water applied for dust management. The water would include the dirt and other material that had collected on the insulator instead of landing elsewhere previously. Pollutant sources would be applied, stored, and disposed of with appropriate containment in a manner consistent with manufacturer recommendations by licensed professionals, if necessary, and in accordance with applicable regulations. Project operation and maintenance activities will be covered activities under PG&E's SJVHCP (PG&E 2006). Required SJVHCP measures such as SJVHCP AMM-1, AMM-6, and AMM-9 (listed in Section 5.4) provide controls to avoid and minimize activities that may impact water quality. No changes would occur to the existing operation and maintenance activities at PG&E remote-end substations and at the repeater station. Therefore, impacts under this criterion will be less than significant.

LEU Potential Impact Discussion

LEU's portion of the project will not violate any water quality standards or waste discharge requirements. Project temporary and permanent areas and access have been sited to avoid surface water, including waterways and wetlands. The project will have no impact on riparian habitats or wetlands, as described in Section 5.4. No LEU project components are located within or span over waterways. No known downstream segments of the San Joaquin River are on the Section 303(d) impaired waters list. Wastewater generated during construction will be contained within portable restrooms and disposed of by a licensed contractor. No wastewater would be discharged from the project work areas.

Potential impacts during project construction include erosion, increased runoff and sedimentation, and release of hazardous materials from construction equipment and vehicles. The LEU project components will include station grading; excavating station equipment and relocating and removing existing 12 kV feed line segments; and limited soil disturbance at staging areas and along temporary access routes. A small, temporary stockpile of excavated soil may be located near an excavation to be used for backfill. Construction activities conducted during the rainy season have the potential for increasing erosion and sediment transport locally.

LEU will assess the risk to water quality based on site-specific soil characteristics and slope and will develop an SWPPP to address potential water quality concerns, as described in BMP HYD-1. The SWPPP will specify measures for activities with the potential to degrade surrounding water quality through erosion, sediment runoff, and the presence of other pollutants. Accidental releases of hazardous materials

that are used during construction – for example, diesel fuel, hydraulic fluid, or oils and grease – will have the potential to occur. An accidental release of fuel or lubricant at the surface or within excavations poses minimal risk to groundwater quality, given the small amounts of material used, depth to groundwater, and spill response procedures, as described in Section 5.9. This potential impact will be avoided and minimized by implementing best practices adopted to control nonstormwater discharges under BMP HYD-1 and by BMP HAZ-1, which is discussed in Section 5.9.5.2. The LEU SWPPP measures will be implemented and monitored throughout the project's construction by a qualified SWPPP practitioner. Additionally, the generally flat topography further reduces the potential for construction-related impacts.

Although it is not expected to occur, if groundwater is encountered during construction, BMP HAZ-5 will be implemented.

The project is not expected to use or store large quantities of hazardous materials. Fuel, grease, and fluids needed for equipment operation will be onsite periodically; these will be handled, in keeping with the LEU SWPPP and BMP HAZ-1, BMP HYD-1, and BMP HYD-2, for proper use, storage, and cleanup (if warranted).

In summary, during construction the potential impact under this criterion is associated with an accidental nonstormwater discharge that is expected to be minimal and any impact further minimized with implementation of BMP HYD-1 and BMP HAZ-1. Therefore, the project is not expected to violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality; and the potential impact will be less than significant.

During the operation and maintenance phase, site restoration will be complete (refer to BMP HYD-3) and additional runoff within new and modified stations will be directed to the onsite detention basin, avoiding the potential for impact to water quality. Water quality could potentially be impacted through inadvertent spills or discharges from equipment malfunctions or from vehicles or equipment used during inspections or maintenance, which could wash into nearby stormwater inlets or drainages or infiltrate soil to the water table. With implementation of the LEU SPCC plan described in BMP HYD-4, an accidental release during operation and/or maintenance of the project is unlikely to occur; therefore, impacts would be less than significant. Maintenance activities may use limited amounts of water for washing equipment as well as use pollutant sources, including oils, paints, and solvents used for routine maintenance. Pollutant sources would be applied, stored, and disposed of with appropriate containment in a manner consistent with manufacturer recommendations by licensed professionals, if necessary, and in accordance with applicable regulations. No changes would occur to the existing operation and maintenance activities at LEU Industrial Substation. Therefore, impacts under this criterion will be less than significant.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

A water truck, typically with a capacity of 3,000 gallons, will be available to support project construction activities and dust suppression. Three to four water trucks per day would be used during peak construction periods. The water is expected to be obtained from local municipal sources, which could include surface water or groundwater; Lodi Lake; water supply vendor trucks; or recycled water from the WWTP. As discussed in Section 5.10.1.9, more than 50 MAF of fresh groundwater is estimated to be available in the Eastern San Joaquin County Subbasin. This can easily accommodate all construction water needs.

PG&E operation and maintenance visits will be conducted occasionally, and insulator washing is the only known activity that would require water. If an inspector requires that insulators be washed as part of the 5-year PG&E transmission line, PG&E Thurman Switching Station, or PG&E Lockeford Substation inspection findings, a pumper truck (3,000-gallon volume) of distilled water would be used to clean insulators that required washing. The minimal water needed for potential insulator washing no more than once every 5 years will not exceed available supplies.

Based on DWR data, regional groundwater is expected to be relatively deep (greater than 70 feet) and would not be impacted by the installation of tubular steel pole foundations along most of the project area. The HDD construction associated with the extended secondary service line is expected to be up to at least

15 feet when crossing under the railway. Localized areas of perched groundwater, particularly in the vicinity of streams and irrigation canals, could be encountered during tubular steel pole construction, but any impacts to groundwater supplies or recharge would be negligible. Based on the project geotechnical investigations, regional groundwater was not encountered at any of the Substation sites. Two of the four geotechnical borings at PG&E Lockeford Substation encountered perched groundwater at 5 feet. The project's negligible water use during construction will not deplete or interfere with groundwater supply or recharge.

Grading and/or excavation activities will be required for the new transmission structures, reconfigured 60 kV lines, the proposed Thurman Switching Station (approximately 5.50 acres) with its extended secondary station service line, and the expanded Lockeford Substation (approximately 2.32 acres). In addition, staging areas may require improvement that includes blading the surface of the area, compacting soil, and/or applying gravel. Scraping and grading during preparation of the station sites and staging areas may disturb the soil surface, which will result in a temporary reduction in the infiltration and absorption capacity of the localized affected area. Localized compaction of soil from construction activities, including the use of heavy equipment, also could diminish the stormwater infiltration capacity. The effects would be localized to the project areas and create a minor reduction in groundwater recharge potential (approximately 8.57 acres of new or modified station area) in comparison to the size of the basin and recharge ability of surrounding agricultural land. Work at PG&E remote-end substations and the repeater station will have no impact on groundwater. During operation and maintenance activities, the project will not use groundwater or interfere with groundwater recharge. Therefore, project impacts on groundwater supply and recharge would be less than significant.

LEU Potential Impact Discussion

LEU's Guild and Industrial substations are located within a water district or sewer service area. Water required for construction may come from several sources, including a municipal water source, delivery by water trucks, or from Lodi Lake located on the north side of the City of Lodi. Another potential water source for construction will be recycled water from the City's newly upgraded wastewater treatment plant.

It is estimated that construction of LEU Guild Substation will require approximately 40,000 gallons of water (approximately 3 acre-feet). Approximately 25% of the total water used will be for construction (concrete mixing), with the remaining 75% used for dust control during the construction period. All the water sources described previously have adequate capacity to serve the project either independently or in combination.

Daily water use during the LEU construction period will vary based on the construction phase, but it is estimated that the average water use per day will be approximately 200 gallons over the course of the estimated 13 months of construction.

Based on DWR data and LEU's preliminary subsurface geotechnical information, groundwater is expected to be relatively deep (greater than 70 feet). LEU's portion of the project is not expected to involve excavation greater than 16 feet.

Grading and/or excavation activities will be required for the proposed LEU Guild Substation (approximately 3.25 acres), modified LEU Industrial Substation, and relocated LEU 12 kV feeder line. In addition, work areas within Guild Substation may require improvement that includes blading the surface of the area, compacting soil, and/or applying gravel. Scraping and grading during preparation of the station sites may disturb the soil surface, which will result in a temporary reduction in the infiltration and absorption capacity of the localized affected area. Localized compaction of soil from construction activities, including the use of heavy equipment, also could diminish the stormwater infiltration capacity. The effects would be localized to the project areas and create a minor reduction potential (approximately 3.25 acres of new station footprint) in groundwater recharge in comparison to the size of the basin and recharge ability of surrounding agricultural land. LEU's negligible water use during construction will not deplete or interfere with groundwater supply or recharge. During operation and maintenance activities, the project will not use groundwater or interfere with groundwater recharge. Therefore, project impacts are less than significant.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) result in substantial erosion or siltation on- or off-site? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

PG&E project components are located on flat land. On average, there is less than 2 feet of variation in existing elevation within stations or at line structure locations. Grading activities will not substantially alter the drainage pattern of a site or the project area by altering the course of a stream or river or through addition of impervious surfaces resulting in substantial erosion or siltation onsite or offsite.

The existing drainage and retention basin at PG&E Lockeford Substation will be extended and expanded to contain additional drainage from the expanded facilities located on a crushed-rock surface and rock placed on the existing western interior road. The proposed PG&E Thurman Switching Station will include an onsite retention basin that will alter the existing site drainage pattern by collecting and retaining onsite drainage. The site drainage system and stormwater detention basin for each station are designed to collect and allow infiltration of the volume of runoff generated by the facility during a 25-year, 24-hour storm event.

PG&E's Thurman Switching Station will be finished with a crushed-rock surface and interior access roads will be asphalt. Minor surface contouring is expected at some locations along the new or modified electric lines to improve construction access or establish construction work areas to accommodate equipment. Appropriate dust control and PG&E SWPPP measures will be implemented at project work areas and access, as described in APM AIR-1 and APM HYD-1, will be implemented to control erosion onsite. As described in APM HYD-3, site restoration at the end of construction will reestablish contours, replace vegetation, or otherwise stabilize areas distributed during line construction and no permanent change would occur. The impact will be less than significant.

During PG&E operation and maintenance, runoff rates could increase based on the construction of up to approximately 8.57 acres of semipermeable and impermeable surface at the stations. However, stormwater runoff from the impervious portion of the proposed PG&E Thurman Switching Station and PG&E Lockeford Substation will be contained through drainage ditch(es) and an onsite retention basin. Overland flows onto the station facilities are not expected given the relatively flat terrain. The installation of the 72 TSPs would result in up to approximately 2,770 square feet (0.06 acre) of new impervious surface, bringing the total increase in semipermeable and impermeable surfaces to 8.63 acres. The replacement of RO1 lattice steel tower to a tubular pole is expected to slightly decrease its existing impervious footprint. Work at PG&E remote-end substations and at the repeater station will not alter the potential for erosion or siltation onsite or offsite. As a result, no impacts to erosion or siltation onsite or offsite will occur during operation and maintenance.

LEU Potential Impact Discussion

LEU project components are located on flat land. On average, there is less than 2 feet variation in existing elevation within stations. Grading activities will not substantially alter the drainage pattern of a site or the project area by altering the course of a stream or river or through addition of impervious surfaces resulting in substantial erosion or siltation onsite or offsite.

LEU's Industrial Substation modification will not change the existing drainage pattern of the site. The proposed LEU Guild Substation will include an onsite retention basin that will alter the existing site drainage pattern by collecting and retaining onsite drainage. The site drainage system and stormwater detention basin for each station are designed to collect and allow infiltration of the volume of runoff generated by the facility during a 25-year, 24-hour storm event.

The LEU station yards in Lodi will be finished with a crushed-rock surface and interior access roads will be asphalt. Appropriate dust control and LEU SWPPP measures will be implemented at project work areas and access as described in BMP AIR-1 and BMP HYD-1 will be implemented to control erosion onsite. As described in BMP HYD-3, site restoration at the end of construction will reestablish contours, replace

vegetation, or otherwise stabilize areas distributed during line construction and no permanent change would occur. The impact will be less than significant.

During LEU operation and maintenance, runoff rates could increase based on the construction of up to approximately 3.25 acres of semipermeable and impermeable surface at Guild Substation. However, stormwater runoff from the impervious portion of the proposed LEU Guild Substation will be contained through drainage ditch(es) and an onsite retention basin. Overland flows onto the station facility are not expected given the relatively flat terrain. The equipment modification at LEU Industrial Substation will not alter the potential for erosion or siltation onsite or offsite. As a result, no impacts to erosion or siltation onsite or offsite will occur during operation and maintenance.

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The project will not substantially alter existing drainage patterns, increase impervious surfaces, or otherwise cause increased surface water runoff rates, or require substantial modification of any upland sites that would increase the potential for any onsite or offsite flooding. Grading will occur in select PG&E line structure locations to level project access and temporary work areas to accommodate equipment and pole placement; however, this grading will be limited in scope and will not substantially alter site drainage or result in flooding. A conservative estimate assumes that 5,605 cubic yards will be offloaded to create level work areas at 230 kV pole locations for safety. No grading is expected for PG&E 60 kV or service line work areas.

Based on the preliminary grading design, earthwork activities for PG&E Thurman Switching Station and PG&E Lockeford Substation are anticipated to result in approximately 5,794 cubic yards of cut and fill. Onsite drainage will be modified such that flows will be consolidated into onsite retention basins. Stormwater flows in the general project area are relatively infrequent and will remain largely unchanged. However, in the event of a large storm, there is potential for increased surface runoff at the stations during construction before the retention basins are built or expanded. PG&E SWPPP best practices will be implemented during construction to reduce the rate and amount of surface runoff to prevent flooding onsite or offsite.

During PG&E operation and maintenance, runoff rates could increase based on the construction of up to 8.57 acres of semipermeable and impermeable surface at the stations. However, surface runoff from the impervious portion of the proposed PG&E Thurman Switching Station and Lockeford Substation will be contained through drainage ditch(es) and an onsite retention basin to prevent onsite flooding 25-year, 24 hour storm event. The stormwater basin capacity is unlikely to be exceeded and create offsite flooding. Work at PG&E remote-end substations and at the repeater station will not increase the rate or amount of surface runoff in a manner that would result in flooding onsite or offsite. The potential impact to the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite will be less than significant.

LEU Potential Impact Discussion

The project will not substantially alter existing drainage patterns, increase impervious surfaces, or otherwise cause increased surface water runoff rates, or require substantial modification of any upland sites that would increase the potential for any onsite or offsite flooding. Based on the preliminary grading design, earthwork activities for LEU Guild and Industrial substations are anticipated to result in approximately 6,100 cubic yards of cut and fill. Onsite drainage will be modified such that flows will be consolidated into specified retention basins. Stormwater flows in the general project area are relatively infrequent and will remain largely unchanged. However, in the event of a large storm, there is potential for increased surface runoff at the stations during construction before the retention basins are built or expanded. LEU SWPPP best practices will be implemented during construction to reduce the rate and amount of surface runoff to prevent flooding onsite or offsite. During LEU operation and maintenance, runoff rates could increase based on the construction of up to 3.25 acres of semipermeable and impermeable surface at Guild Substation. However, surface runoff from the impervious portion will be

contained in an onsite retention basin to prevent onsite flooding 25-year, 24 hour storm event. The stormwater basin capacity is unlikely to be exceeded and create offsite flooding. The equipment modification at LEU Industrial Substation will not increase the rate or amount of surface runoff in a manner that would result in flooding onsite or offsite. The potential impact to the rate or amount of surface runoff in a manner that would result in flooding onsite or offsite will be less than significant.

iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? ***Less-than-Significant Impact.***

PG&E Potential Impact Discussion

Construction activities will not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems. Water will be used conservatively during construction and will be limited to the minimum needed for dust control such that runoff into offsite locations is not expected. Sources that could contribute to polluted runoff during construction will be managed onsite to prevent runoff. PG&E construction workers will receive training and have material at work areas to respond if a spill or release occurs to avoid or minimize runoff from work areas (refer to APM HAZ-1, APM HAZ-2, and APM HAZ-4). Construction activities have the potential to minimally increase runoff of stormwater contaminated with sediments or other pollutants if stormwater comes into contact with materials onsite and discharges contaminants into storm drains. Potential sources of pollution include oil leaked from heavy equipment and vehicles; grease; hydraulic fluid; fuel; construction materials and products; waste materials; HDD nontoxic, water-based lubricant; and erosion of disturbed soil. Grading and/or excavation activities will be required for the proposed and modified lines and the proposed PG&E Thurman Switching Station, modified PG&E Lockeford Substation, and potentially PG&E remote-end substations. In addition, staging areas may require improvement that includes blading the surface of the area, compacting soil, and/or applying gravel. Grading and blading will level the ground surface within facilities, work areas, or access locations, not increase the potential for runoff. During construction, the project will control construction site runoff through the development and implementation of the PG&E SWPPP (refer to APM HYD-1 and APM HYD-2).

Within the City of Lodi, PG&E's project development and implementation of the PG&E SWPPP will be consistent with the City's MS4 Phase II General Permit requirements. The project's ground-disturbing activities outside the City of Lodi are located within rural or undeveloped parcels where municipal or otherwise developed stormwater collection systems are not established, or at existing substations with stormwater management systems. The stormwater conveyance systems that exist currently generally consist of agricultural ditches along field roads and other local roads. Project activities will have a less-than-significant impact to existing or planned stormwater drainage systems, including the potential for providing substantial additional sources of polluted runoff given that activities are temporary and limited by the scale of construction activities. The implementation of APM HYD–1, APM HYD-2, APM HAZ–1, APM HAZ-2, and APM HAZ-4 will further reduce potential less-than-significant impacts.

For operation of PG&E Thurman Switching Station within the City of Lodi, PG&E will develop a PG&E Stormwater Plan as required as part of the PG&E Operation and Maintenance Plan associated with the building permit (refer to APM HYD-5). Current PG&E switching station design has stormwater contained onsite and stormwater runoff is not expected during operations. During operation and maintenance, the project will not create or contribute to runoff water that will exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; no impact will occur.

LEU Potential Impact Discussion

Construction activities will not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems. Water will be used conservatively during construction and will be limited to the minimum needed for dust control such that runoff into offsite locations is not expected. Sources that could contribute to polluted runoff during construction will be managed onsite to prevent runoff. LEU construction workers will receive training and have material at work areas to respond if a spill or release occurs to avoid or minimize runoff from work areas (refer to BMP HAZ-1, BMP HAZ-2, and BMP

HAZ-4). Construction activities have the potential to minimally increase runoff of stormwater contaminated with sediments or other pollutants if stormwater comes into contact with materials onsite and discharges contaminants into storm drains. Potential sources of pollution include oil leaked from heavy equipment and vehicles; grease; hydraulic fluid; fuel; construction materials and products; waste materials; HDD non-toxic, water-based lubricant; and erosion of disturbed soil. Grading and/or excavation activities will be required for the proposed LEU Guild Substation. In addition, staging areas may require improvement that includes blading the surface of the area, compacting soil, and/or applying gravel. Grading and blading will level the ground surface within facilities, work areas, or access locations, not increase the potential for runoff. During construction, the project will control construction site runoff through the development and implementation of the LEU SWPPP (refer to BMP HYD-1 and BMP HYD-2).

Within the City of Lodi, the LEU's development and implementation of the LEU SWPPP will be consistent with the City's MS4 Phase II General Permit requirements. Project activities will have a less-than-significant impact to existing or planned stormwater drainage systems, including the potential for providing substantial additional sources of polluted runoff given the activities are temporary and limited by the scale of construction activities. The implementation of BMP HYD–1, BMP HYD-2, BMP HAZ–1, BMP HAZ-2, and BMP HAZ-4 will further reduce potential less-than-significant impacts.

For operation of LEU Guild Substation within the City of Lodi, LEU will develop a Project Stormwater Plan as required as part the LEU Operation and Maintenance Plan associated with the building permit (refer to BMP HYD-5). During operation and maintenance, the project will not create or contribute to runoff water that will exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; no impact will occur.

iv) impede or redirect flood flows? ***Less-than-Significant Impact.***

PG&E Potential Impact Discussion

Eight new PG&E 230 kV structures and associated work areas, staging areas, and access in the vicinity of PG&E's Lockeford Substation are within mapped FEMA Zone A 100-year flood hazard zones, as shown on Figure 5.10-4. Construction areas and overland access will be removed when construction is completed and they will be restored to their natural states. Project grading or blading will not significantly alter the drainage pattern in those project areas within 100-year flood zones, nor will they redirect the course of a stream or river that would impede or redirect flood flows. Therefore, the impact to the hydrology, inundation, and flow path of the floodplain is temporary and negligible.

The permanent PG&E transmission structures that will be located in approximately 1.25 miles of mapped 100-year floodplains include monopole structures (ranging from 3 to 7 feet in diameter at base), for an expected eight structures. This is roughly one structure per 825 feet of floodplain. The structures will have a small footprint and cross-section and will not significantly impede or redirect flood flows. Therefore, impacts will be less than significant.

LEU Potential Impact Discussion

LEU project components are located within a 500-year flood hazard zone. No LEU project components are located within a mapped FEMA Zone A 100-year flood hazard zone, as shown on Figure 5.10-4. Therefore, impacts will be less than significant.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? ***Less-than-Significant Impact.***

PG&E Potential Impact Discussion

The project is not located in tsunami or seiche zones and would not risk release of pollutants from inundation. The project will use materials – such as oil, grease, hydraulic fluid, fuel, construction materials and products, waste materials, and loose soil – that could risk release during project inundation from flood hazards in select PG&E construction areas or access, or sections of the PG&E transmission line. Furthermore, the PG&E SWPPP and SPCC will consider the project's potential flood hazard and address the risk release of pollutants from project inundation to align with federal and state regulations that manage

and control pollutants during construction and facility operations. The potential for risk release of pollutants from project inundation caused by flood hazard will be less than significant.

LEU Potential Impact Discussion

The LEU project components are not located in tsunami or seiche zones and would not risk release of pollutants from inundation. The project will use materials – such as oil, grease, hydraulic fluid, fuel, construction materials and products, waste materials, and loose soil – that could risk release during project inundation from flood hazard in select work areas. The LEU SWPPP and SPCC will consider the project's potential flood hazard and address the risk release of pollutants from project inundation to align with federal and state regulations that manage and control pollutants during construction and facility operations. The potential for risk release of pollutants from project inundation caused by flood hazard will be less than significant.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

The project area is in the San Joaquin River Basin, which is covered by the water quality control plan (Revised Basin Plan) for the Central Valley RWQCB (RWQCB 2018). This plan was last updated in May 2018. PG&E's project components do not include any waste discharges that could conflict with the Basin Plan. Activities associated with project construction, including as-needed surface contouring of access roads and laydown areas, will not provide substantial additional sources of polluted runoff. As described previously, a PG&E SWPPP will be prepared and implemented to further reduce any impacts. The project's negligible water use during construction and operation and maintenance will not deplete or interfere with groundwater supply or recharge. The project will not conflict with or obstruct implementation of the *Eastern San Joaquin Groundwater Sustainability Plan.* Therefore, the project will not conflict with or obstruct the water quality control plan or a sustainable groundwater management plan and the potential impacts will be less than significant.

LEU Potential Impact Discussion

The project area is in the San Joaquin River Basin, which is covered by the water quality control plan (Revised Basin Plan) for the Central Valley RWQCB (RWQCB 2018). This plan was last updated in May 2018. The LEU project components do not include any waste discharges that could conflict with the Basin Plan. Activities associated with LEU project construction, including as-needed surface contouring of access roads and laydown areas, will not provide substantial additional sources of polluted runoff. As described previously, an LEU SWPPP will be prepared and implemented to further reduce any impacts. The project's negligible water use during construction and operation and maintenance will not deplete or interfere with groundwater supply or recharge. The project will not conflict with or obstruct implementation of the *Eastern San Joaquin Groundwater Sustainability Plan.* Therefore, the project will not conflict with or obstruct the water quality control plan or a sustainable groundwater management plan and the potential impacts will be less than significant.

5.11 Land Use and Planning

This section describes existing conditions and potential impacts on land use resources as a result of construction, operation, and maintenance of the project. The analysis concludes that no impacts on land use would occur. The project's potential effects on land use resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.11-2 and discussed in more detail in Section 5.11.4.

5.11.1 Methodology and Environmental Setting

5.11.1.1 Methodology

Aerial photographs, area plans, land use maps, zoning ordinances, and redevelopment plans were reviewed for all areas traversed by the project.

Further analysis of land use and planning included a review of the following plans and policies:

- San Joaquin County General Plan
- City of Lodi General Plan
- San Joaquin County Zoning Ordinance
- City of Lodi Zoning Ordinance (Municipal Code)
- California Department of Fish and Wildlife, Natural Community Conservation Plan (NCCP) Map
- San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP)

In addition, a field visit to the site was conducted in March 2021 to gather relevant information pertaining to the land uses at the project site and surrounding areas. Meetings between PG&E and applicable agencies have been conducted and are summarized in Section 2.2.

5.11.1.2 Regional Land Use Setting

The project would be located within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (refer to Figure 3.1-1). The foothills of the Diablo Range define the southwestern corner of the County, and the foothills of the Sierra Nevada Range lie along the County's eastern boundary. Major geographic features in the project area include the Mokelumne River, Bear Creek, SR 99, SR 88, and SR 12. The topography in the area generally is flat with rolling hills rising in elevation to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project. Northeastern San Joaquin County is predominantly agricultural with retail, wineries, and rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

5.11.1.3 Local Land Use Setting (Existing Land Use)

Major land uses in the City of Lodi (excluding White Slough, streets, and other rights-of-way) are residential (50%); public/quasi-public, including schools (13%); industrial (12%); commercial, including retail and office (9%); vacant land (7%); miscellaneous land, including county, state, and parking areas (6%); agriculture and wineries (1%); utilities (<1%); and mixed uses (<1%) (City of Lodi 2010). Within the City of Lodi, the land uses near the proposed project area include industrial, open space, and public/quasi-public.

Near the proposed project, the majority of unincorporated San Joaquin County land is designated as agricultural. Along the eastern boundary of the City of Lodi, land uses include industrial, open space, and

parks/recreation. However, more-intensive residential and urban uses within unincorporated communities and nearby cities are sprinkled throughout the region.

Local Land Use Intersecting the Proposed Project

From the eastern extent of the proposed project near Clements Road, the new PG&E 230 kV DCTL would follow an approximate 4-mile westward path with an approximate 110-foot-wide ROW into the existing PG&E Lockeford Substation. PG&E Lockeford Substation would be expanded by about 2.4 acres on existing PG&E substation property to accommodate the new 230 kV line. The new 230 kV line would run north of PG&E's existing 230 kV double-circuit line (Rio Oso-Lockeford and Lockeford-Bellota), which is north of East Kettleman Lane. The new 230 kV line would continue westward in an approximate 115-foot ROW from PG&E Lockeford Substation for approximately 0.25 mile before turning southward for approximately 0.85 mile. The line would continue on a generally westward path for approximately 4.10 miles before turning northward for approximately 1.20 miles. Just south of East Sargent Road, the line would turn westward for approximately 0.50 mile, entering the City of Lodi and continuing to the new PG&E Thurman Switching Station. The new 230 kV source would be switched from PG&E to LEU with a span for each 230 kV circuit between PG&E's Thurman Switching Station and LEU's new Guild Substation. The fenced station areas for PG&E's Thurman Switching Station and LEU's new Guild Substation would be approximately 5.50 acres and approximately 3.25 acres, respectively. LEU will step down the power from 230 kV to 60 kV within Guild Substation and connect new 60 kV lines (two spans each) to the adjacent existing LEU 60 kV Industrial Substation.

Within unincorporated San Joaquin County, land uses along the new PG&E 230 kV lines are designated as general agricultural land and open space/resource conservation. The majority of the agricultural land is vineyard and associated support facilities. The open space/resource conservation designated areas intersecting with the PG&E project components are located along Bear Creek and east of PG&E Lockeford Substation (refer to Figure 5.11-1 and Figure 5.11-3).

Within the City of Lodi, land uses along the new PG&E 230 kV lines are designated as industrial and public/quasi-public. LEU Industrial Substation and the western portion of the proposed LEU Guild Substation are located in public/quasi-public designated land. LEU Industrial and Guild substations are bound by the CCT Company railroad using UPRR tracks to the north, the City's Water Treatment Plant to the south, and North American Specialty Products to the west. The remainder of the proposed project within the City of Lodi is located on industrial-designated land, including the undeveloped property to the east of LEU Industrial Substation, which would be developed as part of the proposed project as portions of the eastern half of the proposed LEU Guild Substation, the proposed PG&E Thurman Switching Station, the proposed PG&E distribution line to provide secondary switching station power, and the proposed PG&E 230 kV transmission line. The three PG&E 60 kV lines connecting LEU Industrial Substation including PG&E Lockeford-Industrial line (with existing LEU distribution underbuild and Comcast communication lines) are on both industrial-designated land and public/quasi-public land when within the City of Lodi city limits. PG&E Industrial Tap and PG&E Lockeford-Industrial are within general agricultural when with unincorporated San Joaquin County (refer to Figure 5.11-2 and Figure 5-11-4).

In accordance with CPUC filing requirements, a preliminary list of parcels within 300 feet of the project, including the Assessor's Parcel Number, mailing address, and the parcel's physical address, is provided in Appendix 1A.

Water Conveyance and Flood Control Facilities

A complex network of water conveyance and flood control facilities traverses the San Joaquin Valley. These water systems, or portions of them, are owned or managed or both by a network of agencies. The proposed project is located within the NSJWCD, although there are no NSJWCD canals located in the project vicinity. However, the NSJWCD, along with San Joaquin County, East Bay Municipal Utility District, and Eastern Water Alliance, developed a piping system that pipes water from the Mokelumne River's South Pump Station to agricultural operators for irrigation through the NSJWCD South Pipeline, which traverses agricultural areas east of the City of Lodi. These canals and pipes provide an important source of water for the surrounding agricultural lands. The South Pipeline traverses the project area near PG&E's proposed transmission line Structure W22, located approximately 0.5 mile east of North Alpine Road,

along an existing farm road and approximately 0.54 mile north of East Harney Lane. Structure W22 will be located at least 25 feet from the NSJWCD South Pipeline. Individual structure locations are shown on Figure 5.11-3.

Watercourses spanned by the proposed PG&E transmission line route are part of the San Joaquin River Hydrologic Region. The proposed transmission line spans Paddy Creek near proposed Structure E18, and it spans Bear Creek near proposed Structure W11 as detailed on Figure 5.11-3. Where the PG&E transmission line crosses these creeks, the watercourses are concrete lined with levees.

An East Bay Municipal Utility District aqueduct is near the eastern end of the project, and its ROW is part of PG&E's existing access to its Brighton-Bellota transmission line. Refer to Section 5.10, Hydrology, for detailed information on water systems in the project area.

No watercourse or waterways are within 0.5 mile of LEU's portion of the project.

Regional Transportation Systems

The proposed project spans several regional transportation systems. The proposed PG&E transmission line would span the CCT Company railroad (tracks owned by UPRR) at proposed structures W44 (double track) and W43 (single track) as shown on Figure 5.11-4. The CCT Company operates on two segments of track: (1) the Central Valley Branch between the City of Stockton and the City of Lodi, and (2) a 1-mile industrial lead into the City of Lodi (CCT Company 2021). PG&E's existing Lockeford-Industrial 60 kV circuit spans the CCT Company railroad's double track and single track where it enters the City of Lodi near the western end of East Sargent Road. The western end of PG&E Lockeford-Industrial, approximately 0.5 mile, will be removed as part of the project between the western end of East Sargent Road and LEU Industrial Substation. The existing LEU distribution underbuild on PG&E Lockeford-Industrial line, which will be relocated to an underground configuration immediately south of the new 230 kV line alignment, is parallel to the CCT spur line. No LEU portion of the project crosses railroad tracks. PG&E's secondary station service extension into PG&E's new Thurman Switching Station will cross under the CCT spur line where the tracks cross South Guild Avenue.

The proposed PG&E transmission line would span SR 88 at the proposed structure W12 as shown on Figure 5.11-3. The existing span PG&E Industrial Tap would be removed from its crossing of SR 12, and horizontal guy wires would be installed between PG&E Industrial Tap pole 22 and an existing PG&E 12 kV pole. SR 12 and SR 88 are highways managed by Caltrans.

The California High-Speed Rail Authority has preliminary plans to construct Phase 2 of its high-speed rail system on a north-south alignment near the eastern border of the City of Lodi. The Merced-to-Sacramento section of the high-speed rail system would have stops in Sacramento, Stockton, Modesto, and Merced. As of December 2022, the California High-Speed Rail Authority is in the corridor planning phase, and the precise location of the Merced-to-Sacramento section is unknown. However, preliminary plans demonstrate a crossing with the proposed PG&E transmission line potentially just east of the eastern extent of the City of Lodi (California High-Speed Rail Authority 2022). Refer to Section 5.17, Transportation, for detailed information on transportation systems in the project area.

Zoning and General Plan Land Use Designations

Figures 5.11-1 and 5.11-2 illustrate the unincorporated San Joaquin County and City of Lodi zoning designations traversed by the project. Figures 5.11-3 and 5.11-4 illustrate the unincorporated *San Joaquin County General Plan* and *Lodi General Plan* land use designations in the project area.

Public utility facilities regulated by the CPUC are not subject to local land use and zoning regulations. However, the *General Plan* land use and zoning designations for land on which the proposed project is located are described in Table 5.11-1.

Table 5.11-1. Land Use and Zoning Designations Intersected by the Proposed Project

Jurisdiction	General Plan Land Use Designation	Zoning Designation
San Joaquin County	General Agriculture (A/G)	General Agriculture (AG-40)

	Open Space/Resource Conservation (OS/RC)	General Agriculture (AG-40)
City of Lodi	Industrial (M)	Industrial (M)
	Public/Quasi-Public (PQP)	Public/Quasi-Public (PQP)

The *San Joaquin County General Plan* describes the General Agriculture land use designation as providing for large-scale agriculture production and associated processing, sales, and support uses. The General Agriculture designation generally applies to areas outside areas planned for urban development where soils are capable of producing a wide variety of crops or support grazing. Typical building types include low-intensity structures associated with farming and agricultural processing and sales (San Joaquin County 2016). According to Table 9-605.2 of the *San Joaquin County Municipal Code*, major utilities are permitted in the General Agriculture land use area subject to site approval (MuniCode 2021b).

The *San Joaquin County General Plan* describes the Open Space/Resource Conservation land use designation as any areas with significant natural resources that should remain as open space to be used for recreation, or as areas preserved and used for resource production (for example, mining). The Open Space/Resource Conservation designation may be applicable to any area of the County that is essentially unimproved and is planned to remain open in character, improved for recreational uses, managed in the production of resources, protected from development-related impacts, or restricted from access for the protection of the community (for example, floodplains) (San Joaquin County 2016).

The *City of Lodi General Plan* describes the Industrial land use as a mix of heavy manufacturing, warehousing, general service, storage, and distribution activities. Industrial sites are available within and adjacent to the existing cluster of industrial uses on the eastern side of the City (City of Lodi 2010). According to Section 17.24.030 of the *City of Lodi Municipal Code*, utility facilities are permitted with a use permit within the areas that have an Industrial designation (MuniCode 2021a).

The *Lodi General Plan* describes the Public/Quasi-Public land use as properties owned by government entities or quasi-public users. This designation includes government facilities, public and private schools, and libraries (City of Lodi 2010). According to Section 17.26.030 of the *City of Lodi Municipal Code*, utility facilities are permitted by right in the areas designated as Public/Quasi-Public (MuniCode 2021a).

Local Plans and Policies

As previously stated, the PG&E project components are not subject to local agency regulations. However, PG&E has considered the local plans and policies described in the following sections in its design of the proposed project. The City of Lodi is a local agency and must comply with its own local plans and policies. The project's consistency with particular policies within these documents is discussed in Section 5.11.4.

General Plans

The City of Lodi and San Joaquin County both have adopted plans as required by the state of California that provide a framework for future land use, growth, and other local decisions regarding circulation systems, open spaces, and facilities. The state of California requires cities and counties to adopt zoning ordinances to implement their general plans. The plans address the requirement for new infrastructure and utilities to accommodate new growth.

Airport Land Use Plan

The San Joaquin County *Airport Land Use Compatibility Plan* identifies three airports near the City of Lodi: (1) Lodi Airpark, which is located approximately 4.3 miles southwest of the proposed PG&E transmission line Structure W34; (2) Lodi Airport, which is located approximately 5.0 miles northwest of LEU Industrial Substation, and (3) Kingdon Airpark, which is located approximately 6.3 miles southwest of LEU Industrial Substation.

Lodi Airpark was constructed in 1945 as a public-use airport. Its primary function is as a base for a commercial aerial chemical application service for both agriculture and insect abatement. Lodi Airpark reported approximately 6,000 operations in 2008. According to an interview with the airpark operator, operations are anticipated to increase to 12,000 by 2028 (Coffman Associates, Inc. 2009).

Lodi Airport was constructed in 1929 as the second largest privately owned airport in the state of California. The primary activities at the airport include skydiving operations, emergency response helicopters, and training. The airport reported approximately 54,000 operations in 2008. According to an interview with the airpark operator, operations are anticipated to increase to 150,000 by 2028 (Coffman Associates, Inc. 2009).

Kingdon Airpark was constructed in the 1940s to support military training activity during World War II. Today, the primary activities include training and the aerial application of agricultural chemicals, and the site is home of the Delta Flying Club. Kingdon Airpark reported approximately 24,000 operations in 2008. However, the airpark's management anticipates an increase in operations to approximately 84,500 by 2028 (Coffman Associates, Inc. 2009).

Wallom Field is a private airport approximately 2.75 miles south of the proposed PG&E transmission line Structure W23. There are no land use plans associated with Wallom Field.

The proposed project would comply with Federal Aviation Regulation Part 77, Objects Affecting Navigable Airspace, for the construction and operation of the proposed project. Airport hazards are discussed further in Section 5.9, Hazards and Hazardous Materials.

5.11.1.4 Special Land Use

The proposed PG&E transmission line crosses land designated as Open Space/Resource Conservation by the *San Joaquin County General Plan*. This land use designation includes protection of Bear Creek, which meanders in a southwest-northeast orientation south of PG&E's Lockeford Substation. PG&E's transmission line work areas for structures W7, W8, and E18 and associated access roads are located within land designated as Open Space/Resource Conservation. PG&E transmission line structures W7 and W8 are approximately 0.50 mile and approximately 0.62 mile, respectively, southwest of PG&E Lockeford Substation and approximately 100 feet and approximately 250 feet, respectively, from the western levee toe of Bear Creek, as shown on Figure 5.11-3. PG&E new transmission line structure E18 is located approximately 0.60 mile east of PG&E Lockeford Substation and approximately 60 feet from the western Bear Creek levee access road.

LEU's portion of the project is not within special land use designations.

The proposed project does not impact any coastal zones, designated (or proposed candidate) National or State Wild and Scenic Rivers, or national landmarks.

5.11.1.5 Habitat Conservation Plan

The CDFW's *California Natural Community Conservation Plan* map shows no adopted HCPs or NCCPs in the project vicinity (CDFW 2019).

San Joaquin County has the SJMSCP, which compensates for converting open space for utility installations and maintenance activities. These activities will be undertaken by both public and private individuals and agencies throughout San Joaquin County. Refer to Section 5.4, Biological Resources, for additional information regarding the SJMSCP.

PG&E has an HCP for its O&M activities in the San Joaquin Valley—*PG&E San Joaquin Valley Operations & Maintenance Habitat Conservation Plan* (Jones and Stokes 2006). This HCP is applicable to O&M activities for PG&E's electric and gas transmission and distribution systems within nine counties of the San Joaquin Valley, including San Joaquin County. However, the HCP only pertains to the O&M components of the project and not the new construction. Refer to Section 5.4, Biological Resources, for additional information regarding the *PG&E San Joaquin Valley Operations & Maintenance Habitat Conservation Plan*.

5.11.2 Regulatory Setting

5.11.2.1 Federal

Habitat Conservation Plans

Section 10 of the federal ESA allows for the creation of HCPs to protect listed and candidate species in connection with the issuance of an Incidental Take Permit for federally listed species (refer to Section 5.4). *PG&E's San Joaquin Valley Operations & Maintenance Habitat Conservation Plan* provides coverage under the incidental take provisions of Section 10 of the federal ESA for PG&E O&M activities within the San Joaquin Valley. The project is included within the boundaries of this HCP area.

5.11.2.2 State

California Public Utilities Commission

The CPUC has exclusive jurisdiction over the design, siting, installation, operation, maintenance, and repair of electric transmission facilities, pursuant to Article XII, Section 8 of the California Constitution. The CPUC is the Lead Agency for CEQA review for this project and has authority over the discretionary project approval that PG&E seeks. The CPUC, however, does not have jurisdiction over municipal utilities such as LEU. Hence, LEU is not subject to the CPUC's jurisdiction.

5.11.2.3 Local

With respect to PG&E, because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) land use and zoning regulations or discretionary permits except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local land use plans and policies are considered for informational purposes and to assist with the CEQA review process. Local regulation of land use and planning is codified in the *San Joaquin County General Plan* and the *Lodi General Plan*.

Although PG&E is not subject to local discretionary permitting, ministerial permits will be secured, as required. Table 3.10-1: Potential Permits and Approvals (in Chapter 3, Project Description) lists the authorizations that may be required for project construction.

The City of Lodi is a local agency and must comply with its own local plans and policies for LEU's portion of the project.

5.11.3 Impact Questions

The project's potential effects on land use and planning were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.11-2 and discussed in more detail in Section 5.11.4.

Table 5.11-2. CEQA Checklist for Land Use and Planning

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☐	☒

5.11.3.1 Additional CEQA Impact Questions

None.

5.11.4 Potential Impact Analysis

Project impacts related to land use were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. An analysis of impacts to adjacent land uses during construction and operation of the project is included in other sections of the PEA, including Aesthetics, Air Quality, Hazards and Hazardous Materials, Noise, Recreation, and Transportation and Traffic. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.11.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. In accordance with Appendix G of the CEQA Guidelines, the potential significance of project impacts on land use and planning were evaluated for each of the criteria listed in Table 5.11-1, as discussed in Section 5.11.4.3.

5.11.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have no impact on land use and planning; however, to further reduce short-term disturbance to the surrounding land uses during construction, they will implement the following APMs and BMPs:

APM LAN-1: Provide Construction Notification and Minimize Construction Disturbance. A PG&E public liaison representative will provide the public with advance notification of PG&E construction activities, between approximately two and four weeks prior to construction. The announcement will state specifically where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion (for example, closing windows facing the planned construction).

BMP LAN-1: Provide Construction Notification and Minimize Construction Disturbance. A LEU public liaison representative will provide the public with advance notification of LEU construction activities, between approximately two and four weeks prior to construction. The announcement will state specifically where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion (for example, closing windows facing the planned construction).

APM LAN-2: Provide Public Liaison Person and Toll-Free Information Hotline. PG&E will identify and provide a public liaison person before and during construction to respond to concerns of neighboring residents about noise, dust, and other construction disturbance. Procedures for reaching the public liaison officer via telephone, email, or in person will be included in notices distributed to the public as described previously. PG&E will also establish a toll-free telephone number for receiving questions or complaints during construction.

BMP LAN-2: Provide Public Liaison Person and Toll-Free Information Hotline. LEU will identify and provide a public liaison person before and during construction to respond to concerns of neighboring residents about noise, dust, and other construction disturbance. Procedures for reaching the public liaison officer via telephone, email, or in person will be included in notices distributed to the public as described previously. LEU will also establish a toll-free telephone number for receiving questions or complaints during construction.

5.11.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project physically divide an established community? *No Impact.*

PG&E Potential Impact Discussion

The proposed project would provide a safe and reliable electrical utility for the region. No PG&E project features or other built components would be implemented that would otherwise introduce a new barrier that physically divides an established community. Implementation of this project, including construction and operation, would not physically divide an established community, and no impact would occur.

LEU Potential Impact Discussion

The proposed project would provide a safe and reliable electrical utility for the region. No LEU project features or other built components would be implemented that would otherwise introduce a new barrier that physically divides an established community. Implementation of this project, including construction and operation, would not physically divide an established community, and no impact would occur.

b) Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? *No Impact.*

PG&E Potential Impact Discussion

As stated previously, the PG&E project components would not be subject to local discretionary land use or planning regulations. However, according to the documentation review and analysis conducted, the proposed PG&E project components would not introduce conflicts with the existing *San Joaquin County General Plan* or *Lodi General Plan*. The adoption of these referenced plans and the corresponding purposes, as applicable, to avoid or mitigate environmental effects would not be impeded by the proposed PG&E project activities.

Within the proposed PG&E transmission line ROW, specifically within unincorporated San Joaquin County, lands are currently zoned for General Agriculture use as are the locations of the existing PG&E 60 kV ROWs and PG&E Lockeford Substation. According to Table 9-605.2 of the *San Joaquin County Municipal Code*, major utilities are permitted in the General Agriculture zone district subject to site approval (MuniCode 2021b). Furthermore, California GC Section 51238 states that "… the erection, construction, alteration, or maintenance of gas, electric, water, communication, or agricultural laborer housing facilities are hereby determined to be compatible uses within any agricultural preserve." Because of the compatible uses of electric lines and substations, no conflict with existing zoning for agricultural use would occur.

Within the City of Lodi, the proposed PG&E transmission line, switching station, and service line extension, and the existing PG&E 60 kV lines are located on land that is currently zoned for Industrial and Public/Quasi-Public. According to Section 17.24.030 of the *City of Lodi Municipal Code*, utility facilities are permitted within the industrial land use area with a use permit. According to Section 17.26.060 of the *City of Lodi Municipal Code*, utility facilities are permitted by right in the Public/Quasi-Public district (MuniCode 2021a).

The project is not located within 2 miles of private airports or airstrips.

PG&E transmission line components span Paddy Creek and Bear Creek, which are under the jurisdiction of the CVFPB regulated streams and federal levees. The PG&E transmission line also would span the South Pipeline, which is under jurisdiction of the NSJWCD. The NSJWCD and CVFPB have specific requirements for utility crossings of their facilities. As part of the permitting process, PG&E will consult with CVFPB and NSJWCD to obtain any required encroachment permits, licenses, or leases and will comply with all design guidelines and permit/license/lease requirements, including any required setbacks. In accordance with PG&E setback requirements, the transmission structure will be at least 25 feet from the pipeline. No impact will occur.

The proposed PG&E transmission line spans SR 88 and potentially the California high-speed rail alignment. An existing 60 kV span of PG&E Industrial Tap will be removed from above SR 12 and a new horizontal guy wire from an existing PG&E Lockeford-Lodi No. 2 pole will span SR 12 where the 60 kV span is removed. The PG&E transmission line, PG&E service line extension, and a new PG&E 60 kV span will span the CCT Company railroad tracks (owned by UPRR). As part of the permitting process, PG&E will consult with Caltrans, UPRR, and potentially California High-Speed Rail Authority to obtain required land rights. PG&E will comply with all design guidelines and land rights, including those related to rail and highway crossings. No impact will occur. O&M personnel will visit the project periodically for routine inspection and maintenance procedures. This infrequent activity will have no impact on land use.

Because local agencies do not have jurisdiction over PG&E's project components, and no state or federal land use plans, policies, or regulations are applicable, the PG&E project components would not conflict with any applicable land use policy, plan, or regulation. Nonetheless, an evaluation was performed, and the impact analysis demonstrates that the PG&E portion of the project is compatible with the general plans adopted by the City of Lodi and San Joaquin County and will not have an impact on plans or policies. No changes in land use or zoning will be required as part of the project. No impact will occur.

LEU Potential Impact Discussion

With respect to LEU's project components located in the City of Lodi, the proposed LEU Industrial Substation, new Guild Substation, and existing electrical customer service line relocated to an underground configuration are located on land that is currently zoned for Industrial and Public/Quasi-Public use. According to Section 17.24.030 of the *City of Lodi Municipal Code*, utility facilities are permitted within the industrial land use area with a use permit. According to Section 17.26.060 of the *City of Lodi Municipal Code*, utility facilities are permitted by right in the Public/Quasi-Public district (MuniCode 2021a). The proposed LEU project components are compatible with the land use designated in the *City of Lodi Municipal Code*. Therefore, no impact will occur.

c) Would the project conflict with any applicable habitat conservation plan or natural community conservation plan? *No Impact.*

PG&E Potential Impact Discussion

San Joaquin County has the SJMSCP, which identifies utility installation and maintenance activities as a permitted activity and compensates for conversions of open space for utility installations and maintenance activities (SJCOG 2000).

PG&E has an HCP for its O&M activities in the San Joaquin Valley (Jones and Stokes 2006). However, the HCP only pertains to the O&M activities for the electrical system, including Inspections and Electrical System Tower Replacement or Repair (E2 and E6), which would be covered activities. Additionally, as described in Section 5.4, Biological Resources, PG&E construction practices and PG&E APMs are designed to be compatible with the SJVHCP avoidance and minimization measures, which have been reviewed and approved previously by USFWS and CDFW.

PG&E's construction activities will not conflict with any applicable HCP or NCCP. Project O&M activities will comply with the PG&E SJVHCP. No impact will occur.

No NCCPs are within the project vicinity; no impact will occur.

LEU Potential Impact Discussion

LEU's project components are not located within the San Joaquin County's SJMSCP, and there are no NCCPs within the project vicinity; no impact will occur.

5.12 Mineral Resources

This section describes existing conditions and potential impacts on mineral resources as a result of construction, operation, and maintenance of the project. The analysis concludes that the proposed project would have no impact on mineral resources. The project's potential effects on mineral resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.12-1 (located in Section 5.12.3) and discussed in more detail in Section 5.12.4.

5.12.1 Methodology and Environmental Setting

Information on mineral resources was compiled from local plans, published literature, and maps. Mineral resource classifications and locations were obtained by reviewing the CGS's and Division of Mine Reclamation's (DMR's) maps and special reports. Online maps from sources, including the Mineral Land Classification Studies Index (CGS 2021), the MOLMines MapServer web portal (DMR 2022a), and Mines Online (DMR 2022b), were reviewed to check for the presence of active mining claims, active mines, resource recovery sites, and mineral resources within 0.5 mile of the project footprint. General Plans for both San Joaquin County and City of Lodi were reviewed for information on locally important mineral resources (San Joaquin County 2016; City of Lodi 2010).

No active mining claims, active mines, or resources recovery sites are known within 0.5 mile of the project. According to the CGS publication Special Report 199 (Smith and Clinkenbeard 2012), the project is partially located within one mineral resource zone (MRZ), MRZ-1—specifically, the portion of the project located within the City of Lodi and extending approximately 200 feet east of the city limits. PG&E project components within MRZ-1 include the portions of the three existing PG&E 60 kV lines currently terminating at Industrial Substation that will be reconfigured after the 230 kV source is in service; the new Thurman Switching Station; an extended electrical service line for secondary station power; and approximately 1,550 feet of the western extent of the new PG&E 230 kV DCTL, Lockeford-Thurman. LEU project components within the MRZ-1 area include the existing LEU Industrial Substation, new Guild Substation, and an existing electrical customer service line relocated to an underground configuration. The LEU project components are within 0.5 mile of the city limits.

According to the *San Joaquin County General Plan* (San Joaquin County 2016), the mineral resources of San Joaquin County primarily include sand and gravel aggregate, with limited mining of peat, gold, and silver. Active mining operations existing within the County are related to sand and gravel aggregate operations. The closest extraction sites are more than 0.5 mile to the northeast of the project along the Mokelumne River. No specific mineral resource area or known active sand and gravel aggregate mining operations are within 0.5 mile of the project. According to the *Lodi General Plan* (City of Lodi 2010), the City of Lodi's planning area is designated as MRZ-1, as identified by CGS, and it does not contain significant mineral resources.

5.12.2 Regulatory Setting

5.12.2.1 Federal

No federal regulations related to mineral resources are applicable to the project.

5.12.2.2 State

The California Surface Mining and Reclamation Act of 1975 requires that the State Geologist classify land into MRZs according to the known or inferred mineral potential of the land (PRC Sections 2710–2796). The current mineral land classification report for the area, Special Report 199 (Smith and Clinkenbeard 2012), which is an update of predecessor Special Report 160 (Jensen and Silva 1989), confirms that the mineral land classification categories that were current when Special Report 160 was developed were still

valid for the updated report. As such, the MRZ categories applicable to this project are described as follows:

- **MRZ-1:** Areas where available geologic information indicates that little likelihood exists for the presence of significant mineral resources.
- **MRZ-2:** Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood for their presence exists. This zone shall be applied to known mineral deposits or where well-developed lines of reasoning, based upon economic-geologic principles and adequate data, demonstrate that the likelihood for occurrence of significant mineral deposits is high.
- **MRZ-3:** Areas containing known or inferred mineral occurrences of undetermined mineral resource significance.
- **MRZ-4:** Areas where available information is inadequate to assign any other classification.

5.12.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

The *San Joaquin County General Plan* and the *Lodi General Plan* do not designate any locally important mineral resources within 0.5 mile of the project.

5.12.3 Impact Questions

The project's potential effects on mineral resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.12-1 and discussed in more detail in Section 5.12.4.

Table 5.12-1. CEQA Checklist for Mineral Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

5.12.3.1 Additional CEQA Impact Questions

None.

5.12.4 Potential Impact Analysis

Project impacts related to mineral resources were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the

construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.12.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b), the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on mineral resources were evaluated for each of the criteria listed in Table 5.12-1, as discussed in Section 5.12.4.

5.12.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have no impact on mineral resources, so no APMs or BMPs are proposed.

5.12.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and residents of the state? *No Impact.*

PG&E Potential Impact Discussion

While the westernmost portion of the project is in an area identified as MRZ-1, there are no known mineral resources, active mining claims, or active mining operations within 0.5 mile of the project, either within the City of Lodi or within San Joaquin County. Therefore, loss of availability of a known mineral resource of value to the region and residents of the state will not occur; no construction or operation and maintenance impacts will occur.

LEU Potential Impact Discussion

While the LEU portion of the project is in an area identified as MRZ-1, there are no known mineral resources, active mining claims, or active mining operations within 0.5 mile of the project, either within the City of Lodi or within San Joaquin County. Therefore, loss of availability of a known mineral resource of value to the region and residents of the state will not occur; no construction or operation and maintenance impacts will occur.

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan? *No Impact.*

PG&E Potential Impact Discussion

The *San Joaquin County General Plan* and the *Lodi General Plan* do not designate any locally important mineral resources within 0.5 mile of PG&E's portion of the project. The project will not result in the loss of availability of a locally important mineral resource recovery site; therefore, no construction or operation and maintenance impact will occur.

LEU Potential Impact Discussion

The *San Joaquin County General Plan* and the *Lodi General Plan* do not designate any locally important mineral resources within 0.5 mile of LEU's portion of the project. The project will not result in the loss of availability of a locally important mineral resource recovery site; therefore, no construction or operation and maintenance impact will occur.

5.13 Noise

This section describes existing conditions and potential noise impacts associated with construction, operation, and maintenance of the project. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The analysis concludes that impacts will be less than significant. The APMs and BMPs described in Section 5.13.4.2 will further reduce potential less-than-significant impacts. The project's potential noise-related effects were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.13-14 and discussed in more detail in Section 5.13.4.

5.13.1 Methodology and Environmental Setting

Methodology includes a discussion of the fundamentals of noise, corona noise, and vibration. The environmental setting includes a discussion of sensitive receptors in the project area and noise in this setting.

5.13.1.1 Methodology

Evaluation of potential noise impacts from the project included reviewing County and City noise standards that would assist with the environmental review, characterizing the existing noise environment, and predicting noise levels and related impacts during both construction and operation of the project.

Typical noise levels generated by the construction equipment listed in the project description have been calculated previously and published in various reference documents. The expected equipment noise levels listed in the FHWA *Roadway Construction Noise Model User's Guide* (User's Guide) (FHWA 2006) were used for this evaluation. The User's Guide provides the most recent comprehensive assessment of noise levels from construction equipment. Table 5.13-1 provides typical noise levels and usage factors for general construction equipment and activities consistent with the FHWA Roadway Construction Noise Model. The acoustical usage factor does not equate to the percentage of time the equipment is in use, but rather the percentage of time that it is operated at its maximum sound emission level.

Table 5.13-1. Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)	Specified L_{max} at 50 feet (dBA)	Calculated L_{eq} at 100 feet (dBA)	Calculated L_{eq} at 1,000 feet (dBA)	Calculated L_{eq} at 2,000 feet (dBA)	Calculated L_{eq} at 4,000 feet (dBA)
Auger Drill Rig	20	85	72	52	46	40
Backhoe	40	80	70	50	44	38
Bar Bender	20	80	67	47	41	35
Boring Jack Power Unit	50	80	71	51	45	39
Chain Saw	20	85	72	52	46	40
Clam Shovel (dropping)	20	93	80	60	54	48
Compactor (ground)	20	80	67	47	41	35
Compressor (air)	40	80	70	50	44	38
Concrete Batch Plant	15	83	69	49	43	37
Concrete Mixer Truck	40	85	75	55	49	43
Concrete Pump Truck	20	82	69	49	43	37
Concrete Saw	20	90	77	57	51	45
Crane	16	85	71	51	45	39
Dozer	40	85	75	55	49	43
Drill Rig Truck	20	84	71	51	45	39

Equipment Description	Acoustical Usage Factor (%)	Specified L_{max} at 50 feet (dBA)	Calculated L_{eq} at 100 feet (dBA)	Calculated L_{eq} at 1,000 feet (dBA)	Calculated L_{eq} at 2,000 feet (dBA)	Calculated L_{eq} at 4,000 feet (dBA)
Drum Mixer	50	80	71	51	45	39
Dump Truck	40	84	74	54	48	42
Excavator	40	85	75	55	49	43
Flat Bed Truck	40	84	74	54	48	42
Front End Loader	40	80	70	50	44	38
Generator	50	82	73	53	47	41
Generator (less than 25 kVA)	50	70	61	41	35	29
Gradall	40	85	75	55	49	43
Grader	40	85	75	55	49	43
Grapple (on backhoe)	40	85	75	55	49	43
Horizontal Boring Hydraulic Jack	25	80	68	48	42	36
Hydra Break Ram	10	90	74	54	48	42
Impact Pile Driver	20	95	82	62	56	50
Jackhammer	20	85	72	52	46	40
Man Lift	20	85	72	52	46	40
Mounted Impact Hammer (hoe ram)	20	90	77	57	51	45
Pavement Scarifier	20	85	72	52	46	40
Paver	50	85	76	56	50	44
Pickup Truck	40	55	45	25	19	13
Pneumatic Tools	50	85	76	56	50	44
Pumps	50	77	68	48	42	36
Refrigerator Unit	100	82	76	56	50	44
Rivet Buster/ Chipping Gun	20	85	72	52	46	40
Rock Drill	20	85	72	52	46	40
Roller	20	85	72	52	46	40
Sand Blasting (single nozzle)	20	85	72	52	46	40
Scraper	40	85	75	55	49	43
Shears (on backhoe)	40	85	75	55	49	43
Slurry Plant	100	78	72	52	46	40
Slurry Trenching Machine	50	82	73	53	47	41
Soil Mix Drill Rig	50	80	71	51	45	39
Tractor	40	84	74	54	48	42
Vacuum Excavator (vac-truck)	40	85	75	55	49	43
Vacuum Street Sweeper	10	80	64	44	38	32
Ventilation Fan	100	85	79	59	53	47
Vibrating Hopper	50	85	76	56	50	44

Equipment Description	Acoustical Usage Factor (%)	Specified L_{max} at 50 feet (dBA)	Calculated L_{eq} at 100 feet (dBA)	Calculated L_{eq} at 1,000 feet (dBA)	Calculated L_{eq} at 2,000 feet (dBA)	Calculated L_{eq} at 4,000 feet (dBA)
Vibratory Concrete Mixer	20	80	67	47	41	35
Vibratory Pile Driver	20	95	82	62	56	50
Warning Horn	5	85	66	46	40	34
Welder/Torch	40	73	63	43	37	31
All Other Equipment Greater than 5 Horsepower	50	85	76	56	50	44

Notes:

dBA = A-weighted decibel

L_{eq} = time-averaged sound level

L_{max} = highest sound level measured during a single noise event

As shown in Table 5.13-1, the loudest typical construction equipment generally emits noise in the range of 80 to 90 A-weighted decibels (dBA) at 50 feet, with usage factors of 40% to 50%. Noise at any specific receptor is dominated by the closest and loudest equipment. The types and numbers of construction equipment near any specific receptor location will vary over time. As described by the Federal Transit Administration (FTA) (2018), the average noise level from each piece of equipment is determined by the following formula for geometric spreading:

Typical Noise Level at 50 feet + 10 * log (Adj_{usage}) – 20 * log (distance to receptor/50) – 10 * G * log (distance to receptor/50)

Where:

Usage factor (Adj_{usage}) = 1 (equipment is operating continuously)

Ground effect factor (G) = 0, representing hard ground (such as a ground condition that does not result in additional attenuation)

The following conservative assumptions were used for modeling construction noise:

- One piece of equipment generating a reference noise level of 85 dBA (at 50 feet distance with a 40% usage factor) located on the transmission line route
- Two pieces of equipment generating reference noise levels of 85 dBA located 50 feet farther away on the transmission line route (100 feet distance with a 40% usage factor)
- Two additional pieces of equipment generating reference noise levels of 85 dBA located 100 feet farther away on the transmission line route (200 feet distance with a 40% usage factor)

Table 5.13-2 presents construction equipment noise levels at various distances based on these assumptions.

Table 5.13-2. Construction Equipment Noise Levels Versus Distance

Distance from Construction Activity (feet)	L_{eq} Noise Level (dBA)
50	83
100	79
200	74
400	69
800	63
1,600	58

3,200	52
6,400	46

Note: Refer to text narrative preceding this table for the assumptions of this noise modeling scenario.

Helicopter use is proposed primarily for the conductor stringing operation; use of helicopters to lift and transport structure components and poles is not anticipated. PG&E estimates that a helicopter will be used on the project for approximately 50 days (for an average of 5 hours per day) during construction, primarily supporting the activities described previously. Helicopters generally will be staged and fueled at Lodi Airpark, Lodi Airport, or Kingdon Airpark. Temporary landing zones will be established at intervals of approximately 6 miles along the transmission line route; these landing zones will be collocated with pull and tension sites, staging areas, or structure work areas. In each temporary landing zone or staging area, there will be a designated area for helicopter takeoff and landing.

The helicopter type will depend on availability at the time of construction; however, it is likely to be a light-duty helicopter (Hughes MD500 or equivalent) with a load capacity of approximately 1,200 pounds. Near residences, helicopter operations will be limited to daylight hours. The helicopter flight path generally will follow the proposed alignment and will avoid flying over residences. To assist with conductor stringing, a helicopter will fly a lightweight sock line and thread through traveler pulleys affixed to structure arms. This typically requires approximately 10 to 15 minutes of hover time at each structure; the remaining daily flight time will be between the structure sites and pulling and tensioning areas.

Light-duty helicopters typically result in noise of 71 to 81 dBA at 250 feet from the helicopter, which drops to 65 to 75 dBA at 500 feet (Helicopter Association 2016). Most helicopter activity is expected to occur at landing zones. Helicopter landing zones are expected to be collocated with three staging areas, as shown on Figure 3.5-1, or helicopters will use existing nearby airstrips and commercial airports.

Because helicopters are not proposed for lifting structure components, it is not anticipated that residents would temporarily be required to vacate their residences. However, in the unlikely event that final construction plans require otherwise, all FAA requirements would be met and PG&E would coordinate with potentially affected residents (providing a minimum of 30 days of advance notice).

Multiple factors make it impractical to numerically predict which residences within the study area might experience annoyance caused by the proposed helicopter construction activity, including:

- Variability in how individuals react to the noise
- Variation in the noise levels that individuals might experience given changes in distance from various helicopter activities and orientation of the receptor relative to the helicopter (left side versus right side)
- The presence of “blade slap” (FAA 2004) that can occur when a helicopter operates under high load or ascends or descends at a steep angle
- Varying levels of public outreach and notification on when and why helicopter noise will occur in a neighborhood (FAA 2004)

Regardless of the complexity of these factors, this assessment concludes that a limited number of residences could experience temporary, but potentially substantial, annoyance caused by intermittent helicopter activity. To minimize the potential concerns from noise emitted by helicopter construction activity, APM NOI-6 establishes that helicopter landing zones be located at least 500 feet from occupied residences where feasible.

Blasting is not anticipated, but implosive sleeves (which use explosives) may be used to splice or fuse conductors together. To minimize the potential concerns from the sudden noise emitted by implosive splicing, APM NOI-7 establishes a notification requirement to the community and emergency providers.

Fundamentals of Noise

Noise generally is defined as loud, unpleasant, unexpected, or undesired sound that typically is associated with human activity and that interferes with or disrupts normal activities. Although prolonged exposure to

high noise levels has been demonstrated to cause hearing loss, the principal human response to environmental noise is annoyance. The response of individuals to similar noise events is diverse and influenced by the type of noise, the perceived importance of the noise and its appropriateness in the setting, the time of day and the type of activity during which the noise occurs, and the sensitivity of the individual. Airborne sound is the fluctuation of air pressure above and below atmospheric pressure. Several ways exist to measure sound, depending on the source, receiver, and reason for the measurement.

Community sound levels generally are presented in terms of A-weighted decibels. The A-weighting network measures sound in a similar fashion to how a person perceives or hears sound, thus achieving a strong correlation with how people perceive acceptable and unacceptable sound levels.

A-weighted sound levels typically are measured or presented as the equivalent sound pressure level (L_{eq}), which is defined as the average noise level on an equal-energy basis for a stated period of time and commonly is used to measure steady-state sound that is usually dominant. Statistical methods are used to capture the dynamics of a changing acoustical environment. Statistical measurements typically are denoted by L_n, where "n" represents the percentile of time that the sound level is exceeded. Therefore, L_{90} represents the noise level that is exceeded during 90% of the measurement period, which typically represents a continuous noise source. Similarly, L_{10} represents the noise level exceeded for 10% of the measurement period.

Table 5.13-3 presents A-weighted sound levels and the general subjective responses associated with common sources of noise in the physical environment.

Table 5.13-3. Typical Sound Levels Measured in the Environment

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	— 110 —	Rock band
Jet flyover at 1,000 feet		
	— 100 —	
Gas lawn mower at 3 feet		
	— 90 —	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	— 80 —	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	— 70 —	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	— 60 —	
		Large business office
Quiet urban daytime	— 50 —	Dishwasher in the next room
Quiet urban nighttime	— 40 —	Theater, large conference room (background)
Quiet suburban nighttime		
	— 30 —	Library
Quiet rural nighttime		Bedroom at night, concert hall (background)
	— 20 —	
		Broadcast/recording studio
	— 10 —	
Lowest threshold of human hearing	— 0 —	Lowest threshold of human hearing

Source: Caltrans 2013.

Another metric used in determining the impact of environmental noise is the differences in response that people have to daytime and nighttime noise levels. During the evening and at night, exterior background noises generally are lower than daytime levels. However, most household noise also decreases at night, and exterior noise becomes more noticeable. Furthermore, most people sleep at night and are sensitive to intrusive noises. To account for human sensitivity to evening and nighttime noise levels, the day-night sound level (L_{dn}) (also referred to as DNL) and the community noise equivalent level (CNEL) were developed. The L_{dn} is a noise metric that accounts for the greater annoyance of noise during the nighttime hours (10:00 p.m. to 7:00 a.m.). The CNEL is a noise index that accounts for the greater annoyance of noise during both the evening hours (7:00 p.m. to 10:00 p.m.) and nighttime hours.

L_{dn} values are calculated by averaging hourly L_{eq} sound levels for a continuous 24-hour period on an energy basis, applying a weighting factor of 10 decibels (dB) to the nighttime values. CNEL values are calculated similarly, except that a 5-dB weighting factor also is added to evening L_{eq} values. The applicable adjustments, which reflect the increased sensitivity to noise during evening and nighttime hours, are applied to each hourly L_{eq} sound level for the calculation of L_{dn} and CNEL. For the purposes of assessing noise, the 24-hour day is divided into three time periods, with the following adjustments:

- Daytime hours: 7:00 a.m. to 7:00 p.m. (12 hours)—adjustment of 0 dBA
- Evening hours (for CNEL only): 7:00 p.m. to 10:00 p.m. (3 hours)—adjustment of +5 dBA
- Nighttime hours (for both CNEL and L_{dn}): 10:00 p.m. to 7:00 a.m. (9 hours)—adjustment of +10 dBA

The hourly adjusted time-period noise levels then are averaged (on an energy basis) to compute the overall L_{dn} or CNEL value. For a continuous noise source, such as a transformer, the L_{dn} value can be computed by adding 6.4 dBA to the overall 24-hour noise level (L_{eq}). For example, if the expected continuous noise level from a noise source is 60.0 dBA, the resulting L_{dn} from the source will be 66.4 dBA. Similarly, the CNEL for a continuous noise source is computed by adding 6.7 dBA to the overall 24-hour L_{eq}.

The general human response to changes in noise levels that are similar in frequency content (such as comparing increases in continuous [L_{eq}] traffic noise levels) are summarized as follows:

- A 3-dB change in sound level is considered to be a barely noticeable difference.
- A 5-dB change in sound level typically is noticeable.
- A 10-dB increase is considered to be a doubling in loudness.

Sound attenuates with distance. The farther one is from the source, the lower the sound level will be. For sources of noise that may be represented by a point source, such as a piece of construction equipment, the sound generally will decrease at a rate of 6 decibels per doubling of distance. For line sources (such as continuous traffic on a roadway), the sound level generally will decrease at a rate of 3 decibels per doubling of distance. At larger distances, atmospheric absorption and other factors may provide additional reductions beyond those provided by distance alone.

Corona Noise

Under certain conditions, the localized electric field near an energized conductor can be sufficiently concentrated to produce a tiny electric discharge that can ionize air close to the conductors. This partial discharge of electrical energy is called corona discharge, or corona. Several factors, including conductor voltage, shape and diameter, and surface irregularities such as scratches, nicks, dust, or water drops, can affect a conductor's electrical surface gradient and its corona performance. Corona is the physical manifestation of energy loss and can transform discharge energy into small amounts of sound, radio noise, heat, and chemical reactions of the air components.

During foul or wet weather conditions (such as rain or fog), water drops collect on the conductor and increase corona activity so that a crackling or humming sound may be heard near the line. This noise is caused by small electrical discharges from the water drops. However, during heavy rain, the ambient noise generated by the falling raindrops typically will be greater than the noise generated by corona. Corona

noise generally is more noticeable on high-voltage lines and usually is not a design issue for power lines rated at 345 kV and lower (CPUC 2009).

Vibration

Generally speaking, vibration is energy transmitted in waves through the ground. Because energy is lost during the transfer of energy from one particle to another, vibratory energy is reduced with increasing distance from the source. Human perception of vibration varies with the individual and is a function of physical setting and the type of vibration. Those exposed to elevated ambient vibration levels, such as people in an urban environment, may tolerate a higher vibration level.

Caltrans has developed guidance on addressing vibration issues associated with construction, operation, and maintenance of transportation projects (Caltrans 2020). Table 5.13-4 outlines typical human response to vibration.

Table 5.13-4. Human Response to Transient Vibration

Human Response	PPV (inches/second)
Severe	2.0
Strongly Perceptible	0.9
Distinctly Perceptible	0.24
Barely Perceptible	0.035

Source: Caltrans 2020

PPV = peak particle velocity

Caltrans Construction Vibration Guidance Manual (2020) notes, "There are no Caltrans or Federal Highway Administration standards for vibration and it is not the purpose of this manual to set standards." Rather, agencies such as Caltrans provide "… a synthesis of these criteria that can be used to evaluate the potential for damage and annoyance from vibration-generating activities." In addition, Caltrans (2020) also notes that, "in most cases, vibration induced by typical construction equipment does not result in adverse effects on people or structures. Noise from the equipment typically overshadows any meaningful ground vibration effects on people."

For most projects, the highest levels of vibration occur during construction and assessment is conducted to evaluate the potential damage to nearby buildings. The FTA manual establishes construction damage criteria in terms of peak particle velocity (PPV). These criteria are presented in Table 5.13-5 and range from a threshold of 0.12 inch per second for "buildings extremely susceptible to vibration damage" to 0.5 inch per second for "reinforced concrete, steel, or timber (no plaster)." (FTA 2018).

Although the guidance is not enforceable, it provides a basis for evaluating potential vibration from the proposed project as the construction equipment and activities associated with transportation projects are similar to those used to construct electrical transmission projects.

Table 5.13-5. Construction Vibration Damage Criteria

Building Category	PPV (in/sec)	Single Event PPV (in/sec)
1. Reinforced concrete, steel, or timber (no plaster) (buildings in steel or reinforced concrete, such as factories, retaining walls, bridges, steel towers, open channels, underground chambers, and tunnels with and without concrete alignment)	0.5	1.2
2. Engineered concrete and masonry (no plaster) (buildings with foundation walls and floors in concrete, walls in concrete or masonry, stone masonry retaining walls, underground chambers and tunnels with masonry alignments, and conduits in loose material)	0.3	0.7

Building Category	PPV (in/sec)	Single Event PPV (in/sec)
3. Nonengineered timber and masonry buildings (buildings as mentioned previously but with wooden ceilings and walls in masonry)	0.2	0.5
4. Buildings extremely susceptible to vibration damage (construction very sensitive to vibration; objects of historic interest)	0.12	0.3

Sources: Table 7-5, FTA 2018; Table 10, Caltrans 2020
Notes:

These limits and building categories align with the Caltrans (2020) summary of the Swiss Association of Standardization Vibration Damage Criteria for continuous sources. The Swiss criteria provide additional details regarding the building category and provide a single event limit.

in/sec = inch(es) per second

5.13.1.2 Environmental Setting

The project site is in rural northern San Joaquin County and in the eastern portion of the City of Lodi. The project is located in an agricultural setting intermixed with residences, commercial, industrial, and open space areas. Land uses surrounding the project are described in Section 5.11 (Local Land Use Setting [Existing Land Use]) and are summarized in the following subsections to include the presence of noise sensitive receptors within 0.50 mile of the project. Northeastern San Joaquin County is predominantly agricultural with retail, wineries, and rural and semirural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors.

Major land uses in the City of Lodi (excluding White Slough, streets, and other rights-of-way) are residential (50%); public/quasi-public, including schools (13%); industrial (12%); commercial, including retail and office (9%); vacant land (7%); miscellaneous land, including county, state, and parking areas (6%); agriculture and wineries (1%); utilities (<1%); and mixed uses (<1%) (City of Lodi 2010). Within the City of Lodi, the land uses near the proposed project area include industrial, open space, and public/quasi-public.

Near the proposed project, the majority of unincorporated San Joaquin County land is designated as agricultural. Along the eastern boundary of the project in the City of Lodi, land uses include industrial and open space. However, more-intensive residential and urban uses within unincorporated communities and nearby cities are sprinkled throughout the region.

Within unincorporated San Joaquin County, land uses along the PG&E 230 kV transmission line corridor are designated as general agricultural land and open space/resource conservation. The majority of the agricultural land is vineyard and associated support facilities. The open space/resource conservation designated areas intersecting with the proposed PG&E 230 kV transmission line are located along Bear Creek and east of PG&E Lockeford Substation.

Within the City of Lodi, land uses along the corridor are designated as industrial and public/quasi-public. LEU Industrial Substation and the western portion of the proposed LEU Guild Substation are located in public/quasi-public designated land. LEU Industrial and LEU Guild substations are bound to the north by the CCT Company railroad using UPRR tracks, by the City's Water Treatment Plant on the southern portion of the same city utility parcel, and by North American Specialty Products to the west. The remainder of the proposed project within the City of Lodi is located on industrial designated land, including the undeveloped property to the east of LEU Industrial Substation, which would be developed as part of the proposed project as portions of the eastern half of the proposed LEU Guild Substation, the proposed PG&E Thurman Switching Station, and the proposed PG&E 230 kV transmission line. The three PG&E 60 kV lines connecting LEU Industrial Substation and the existing LEU distribution underbuild on PG&E Lockeford-Industrial Line are on industrial-designated land and public/quasi-public land at LEU Industrial Substation and proposed LEU Guild Substation within the City of Lodi limits.

Sensitive Receptors

Noise sensitive receptors generally are defined as locations where people reside or where the presence of unwanted sound may adversely affect the existing land use. Typically, noise sensitive land uses include residences, hospitals, places of worship, libraries, performance spaces, offices, and schools, as well as nature and wildlife preserves, recreational areas, and parks. Sensitive receptors within 1,000 feet of the project were analyzed for potential impacts because of project construction and operation. Noise sensitive land uses located within 1,000 feet of the project are shown on Figure 5.3-1 and Figure 5.13-1. Work at PG&E's remote-end substations and repeater station will occur within the existing facility fence lines and is expected to occur at noise levels consistent with other regular station operation and maintenance activities.

PG&E Lockeford Substation

There are approximately 6 residences located within 1,000 feet of PG&E Lockeford Substation. Residence 31 is located approximately 235 feet from the existing fence line of the existing substation and approximately 165 feet from a potential staging area on substation property. Residence 30 is located within approximately 115 feet of the same potential substation property staging area and within approximately 80 feet of the existing access road along the eastern substation property boundary (refer to Figure 5.3-1). Residence 30 is approximately 650 feet from existing noise-generating equipment at the substation and will be approximately 730 feet from new noise-generating equipment to be built at the substation.

PG&E 230 kV Transmission Line

There are approximately 95 residences located within 1,000 feet of the new PG&E 230 kV transmission line. The residence located the closest to any proposed activity along the PG&E transmission line is approximately 80 feet from the transmission line center where proposed work is anticipated. Residence 30 is approximately 80 feet from an access road and approximately 115 feet from a construction staging area. Similarly, residence 95 is approximately 85 feet from an identified work area to replace or modify a 60 kV structure on an existing distribution line (refer to Figure 5.3-1). The closest residence to the transmission line itself is residence 37, located approximately 80 feet from the line (refer to Figure 5.3-1). This residence is also within approximately 580 feet of SR 88, which would influence the existing sound level in the vicinity. The next closest residences to the new transmission line are residences 17 and 20, located approximately 134 feet and approximately 144 feet from the line, respectively (refer to Figure 5.3-1). Both of these residences are approximately 300 feet from the existing PG&E double-circuit 115 kV and 230 kV line corridor north of East Kettleman Lane. The Lodi Memorial Park and Cemetery is located approximately 125 feet northeast of the proposed PG&E 230 kV transmission line when the line is within the City of Lodi (refer to Figure 5.3-1 and Figure 5.13-1).

PG&E Thurman Switching Station, PG&E 12 kV Extension, LEU Guild Substation, and LEU 12 kV Relocation

There are no residences located within 1,000 feet of the new PG&E Thurman Switching Station, the PG&E 12 kV service line extension, the existing PG&E Lodi-Industrial and PG&E Industrial Tap reconfiguration at LEU Industrial Substation, the existing LEU Industrial Substation, and the new LEU Guild Substation (refer to Figure 5.13-1). The PG&E 12 kV service line underground extension begins at an existing wood pole immediately adjacent to the Lodi Memorial Park and Cemetery. LEU Guild Substation is approximately 800 feet from the Lodi Memorial Park and Cemetery. Residence 92 is located approximately 750 feet from the eastern end of the LEU 12 kV feeder line that will be relocated underground using HDD. Residence 92 is within approximately 95 feet of the new span between PG&E Industrial Tap and PG&E Lockeford-Industrial lines near the western end of East Sargent Road. Where PG&E Industrial Tap will be topped to remove the 60 kV portion, residence 95 is within approximately 84 feet of the existing wood pole along East Pine Street.

Airports

The project is located more than 2 miles away from the nearest public or private airport. Therefore, the project would have no impact associated with airports or airstrips.

Noise Setting

Existing ambient sound levels may vary both temporally and spatially for a number of reasons. That is, there is no single answer for what the existing sound level is—ambient sound levels vary. For example, wind may result in rustling vegetation noise on one day, whereas calm conditions on another day would result in different sound levels, even at the same location. Changes in traffic patterns or seasonal agricultural activities also can result in different levels of sound. ANSI Standard 12.9-2013/Part 3 provides a table of approximate background sound levels based on land use and population density. The ANSI standard estimation divides land uses into six distinct categories.

Descriptions of these land use categories, along with the typical day and nighttime levels, are provided in Table 5.13-6. Of the six categories, the residences in the vicinity of the project area predominantly comprise Categories 4 and 6, where sound levels are expected to range between 34 dBA at night to 50 dBA during the day. At times, one could reasonably expect both periods to be louder or quieter than the levels stated and ANSI notes the "95% prediction interval [confidence interval] is on the order of +/- 10 dB."

Table 5.13-6. A-weighted Sound Levels Corresponding to Land Use and Population Density

Category	Land Use	Description	People per square mile	Day (dBA)	Night (dBA)
1	Noisy Commercial and Industrial Areas and Very Noisy Residential Areas	Very heavy traffic conditions, such as in busy "downtown" commercial areas; at intersections for mass transportation or for other vehicles, including elevated trains, heavy motor trucks, and other heavy traffic; and at street corners where many motor buses and heavy trucks accelerate.	63,840	66	58
2	Moderate Commercial and Industrial Areas and Noisy Residential Areas	Heavy traffic areas with conditions similar to Category 1 but with somewhat less traffic; routes of relatively heavy or fast automobile traffic, but where heavy truck traffic is not extremely dense.	20,000	61	54
3	Quiet Commercial, Industrial Areas, and Normal Urban and Noisy Suburban Residential Areas	Light traffic conditions where no mass transportation vehicles and relatively few automobiles and trucks pass, and where these vehicles generally travel at moderate speeds. Residential areas and commercial streets and intersections with little traffic comprise this category.	6,384	55	49
4	Quiet Urban and Normal Suburban Residential Areas	These areas are similar to Category 3, but for this group the background is either distant traffic or is unidentifiable. Typically the population density is one-third the density of Category 3.	2,000	50	44
5	Quiet Residential Areas	These areas are isolated, far from significant sources of sound, and may be situated in shielded areas such as a small, wooded valley.	638	45	39
6	Very Quiet, Sparse Suburban, or Rural Residential Areas	These areas are similar to Category 4, but are usually in sparse suburban or rural areas, and for this group there are few if any near sources of sound.	200	40	34

Source: ANSI S12.9-2013/Part 3.

An ambient sound level survey was conducted from October 15 to 16, 2019 at four measurement locations to quantify the existing sound environment surrounding the existing LEU Industrial Substation area. Prior to onsite measurements, potential noise-sensitive areas within a 0.5-mile radius of the existing substation were identified through a desktop review of aerial imagery.

Measurements were taken using an American National Standards Institute (ANSI) S1.4 type 1 sound level meter (Larson Davis Model 831). The sound level meter was calibrated at the beginning and end of each set of measurements. The microphone was located approximately 5 feet above ground level with the microphone directed towards LEU Industrial Substation, angled per the manufacturer's recommendation, at each measurement location. All measurements were taken when meteorological conditions were favorable for conducting sound level measurements per ANSI standards.

The sound survey consisted of far-field measurements at offsite measurement locations. Far-field sound measurements were taken during three time periods over a 24-hour span. The four sound measurement locations were selected because they were accessible and representative of existing ambient sound levels in the direction of the identified noise-sensitive areas. Sound measurements were collected at four locations, MP01 through MP04 (refer to Figure 5.13-2), which were selected to be representative of nearby residences. Far-field measurements were 10 minutes in duration, and measured values were logged by the sound level meter at each measurement point. Significant sound sources in the existing ambient environment included passing heavy traffic, constant industrial building and equipment noise, traffic on SR 99, birds, and insects. The existing LEU Industrial Substation was not clearly audible at any of the measurement locations at any measured time period. The results of these measurements are summarized in Table 5.13-7.

Table 5.13-7. Far-Field Ambient Measurement Data

Measurement Point	Sound Pressure Level L_{eq} (dBA)			Overall CNEL (dBA)
	Day (1:30 pm to 3:00 pm)	Evening (6:30 pm to 8:00 pm)	Night (12:00 am to 1:30 am)	
MP01	66	60	54	65
MP02	48	45	42	50
MP03	64	57	56	65
MP04	74	71	67	76

5.13.2 Regulatory Setting

5.13.2.1 Federal

U.S. Environmental Protection Agency

EPA guidelines (1974) assist state and local governments in developing state and local laws, ordinances, regulations, and standards for noise. Because local regulations apply to the project, the EPA guidelines are not applicable.

Occupational Safety and Health Administration

Onsite and occupational noise levels are regulated through OSHA. The noise exposure level of workers is regulated at 90 dBA over an 8-hour work shift to protect hearing (29 CFR 1910.95). Areas where noise levels exceed 85 dBA will be posted as high-noise level areas, and hearing protection will be required when entering or working in those areas. The project will implement a hearing conservation program for applicable employees and maintain exposure levels below applicable requirements.

Federal Transit Administration

The FTA issued the Transit Noise and Vibration Assessment Manual (FTA Manual), updated in 2018, to guide the assessment of noise and vibration impacts for federally funded transportation projects

consistent with the requirements of NEPA (FTA 2018). This project does not meet the criteria for a transit project defined by the FTA; however, the construction activities and equipment associated with this project are similar to those addressed in the FTA Manual, which establishes useful and reasonable guidelines for assessing construction noise, particularly when local criteria are not well defined.

The FTA Manual establishes absolute noise levels (thresholds) and considers the duration of construction to determine noise impacts on adjacent land uses (Tables 5.13-8 and 5.13-9).

Table 5.13-8. General Construction Noise Impact Evaluated Compared to Land Use

Land Use	$L_{eq.equip(1\ hr)}$ (dBA)	
	Day	Night
Residential	90	80
Commercial	100	100
Industrial	100	100

Source: FTA 2018

hr = hour

Table 5.13-9. Detailed Construction Noise Impact Evaluated Compared to Land Use

Land Use	$L_{eq.equip(8\ hr)}$ (dBA)		$L_{dn,equip(30\ day)}$ (dBA)
	Day	Night	30-day Average
Residential	80	70	75
Commercial	85	85	80*
Industrial	90	90	85*

Source: FTA 2018

$L_{dn.equip}$ or $L_{eq.equip}$= cumulative sound exposure for a receiver from equipment over a specified time period

*Use a 24-hour Leq instead of $L_{dn,equip(30\ day)}$

For most projects, the highest levels of vibration occur during construction and the assessment, therefore, focuses on evaluating the potential for damage to nearby buildings. The FTA Manual establishes construction damage criteria in terms of PPV. These criteria are presented in Table 5.13-5 and range from a threshold of 0.12 inch per second for "buildings extremely susceptible to vibration damage" to 0.5 inch per second for "reinforced concrete, steel, or timber (no plaster)." (FTA 2018).

5.13.2.2 State

State of California General Plan Guidelines

The state of California requires each county and city to develop a general plan for physical development within the county or city. Noise is one of the seven required elements to be included in the plan. The noise element of the general plan is to provide a basis for comprehensive local programs, to control and abate environmental noise, and to protect residents from excessive exposure to noise (Governor's Office of Planning and Research 2017). The content for local general plans is provided by GC Section 65040.2.

California Department of Industrial Relations, Division of Occupational Safety and Health

The California Department of Industrial Relations, Division of Occupational Safety and Health (also known as Cal/OSHA) enforces state noise regulations that are the same as the federal OSHA regulations described previously. Agency regulations are contained in the CCR, Title 8, General Industrial Safety Orders, Article 105, Control of Noise Exposure, Sections 5095 et seq.

California Department of Transportation

While not strictly applicable to this project, it is noted that the Caltrans Standard Specification Section 14-8.02, Noise Control, states the following: "Do not exceed 86 dBA L_{max} at 50 feet from the job site

activities from 9 p.m. to 6 a.m. Equip an internal combustion engine with the manufacturer recommended muffler. Do not operate an internal combustion engine on the job site without the appropriate muffler." In addition, it is generally noted that "No adverse noise impacts from construction are anticipated because construction would be conducted in accordance with Caltrans Standard Specifications Section 14.8-02. Construction noise would be short-term, intermittent, and overshadowed by local traffic noise."

With respect to vibration, *Caltrans Construction Vibration Guidance Manual* (2020) notes, "There are no Caltrans or Federal Highways Administration standards for vibration and it is not the purpose of this manual to set standards." Rather, agencies such as Caltrans provide "… a synthesis of these criteria that can be used to evaluate the potential for damage and annoyance from vibration-generating activities." Table 5.13-5 includes criteria summarized in Caltrans synthesis of criteria. In addition, Caltrans (2020) also notes that, "in most cases, vibration induced by typical construction equipment does not result in adverse effects on people or structures. Noise from the equipment typically overshadows any meaningful ground vibration effects on people."

California Vehicle Code

Noise limits for highway vehicles are regulated under the California Vehicle Code, Sections 23130 and 23130.5. The limits are enforceable on the highways by the CHP and county sheriff offices.

5.13.2.3 Local

Because the CPUC has exclusive jurisdiction over the siting, design, and construction of the project, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process. Airport land use compatibility plans are discussed in Section 5.11, Land Use and Planning, and safety concerns around airports are discussed in Section 5.9, Hazards and Hazardous Materials.

The City of Lodi is a local agency and must comply with its own local plans and policies. The project is located in unincorporated areas of San Joaquin County and also passes through a portion of the City of Lodi. This section considers policies and regulations of these jurisdictions as they relate to noise in the project area.

The adopted noise ordinances for San Joaquin County and the City of Lodi are summarized in the following subsections.

San Joaquin County

The Public Health and Safety Element of the *San Joaquin County 2035 General Plan* provides goals, policies, and implementation programs to minimize exposure to excessive noise sources that may cause undue stress or annoyance. The Public Health and Safety Element includes an analysis of major noise sources in the County and noise contours along major traffic corridors (San Joaquin County 2016). The Public Health and Safety Element also sets noise standards to prevent new noise conflicts by addressing the needs of noise-sensitive land uses, establishing noise -reducing project design features, and establishing appropriate noise emission standards.

Table 5.13-10 shows the noise level standards for noise sensitive uses at outdoor activity areas affected by non-transportation noise sources in the County (San Joaquin County 2016). Table 5.13-11 provides the maximum allowable noise from transportation noise sources to noise sensitive land use types (San Joaquin County 2016). These standards inform the County's noise ordinance.

Table 5.13-10. Non-Transportation Noise Level Performance Standards for Noise-Sensitive Uses at Outdoor Activity Areas

Noise Level Descriptor[a]	Daytime[b] (7:00 a.m. to 10:00 p.m.)	Nighttime[b] (10:00 p.m. to 7:00 a.m.)
Hourly Leq dB	50	45

Maximum Level, dB	70	65

Notes:

[a] Where the location of outdoor activity areas is unknown or is not applicable, the noise standard will be applied at the property line of the receiving land use. When determining the effectiveness of noise mitigation measures, the standards will be applied on the receiving side of noise barriers or other property line noise mitigation measures.
[b] Each of the noise level standards specified will be reduced by 5 dB for impulsive noise, single-tone noise, or noise consisting primarily of speech or music.

Source: *San Joaquin County General Plan*, December 2016, Table PHS-1, Section 3.3, page 3.3-18.

Table 5.13-11. Maximum Allowable Noise Exposure at Noise Sensitive Receptors from Transportation Noise Sources

Noise Level Descriptor[a]	Outdoor Activity Area[b]	Indoor Spaces[b]
Maximum Level, dB	65	45

Source: *San Joaquin County General Plan*, December 2016, Table PHS-2, Section 3.3, page 3.3-19.

Notes:

[a] These standards apply to new or existing residential areas affected by new or existing non-transportation sources.
[b] Where the location of outdoor activity areas is unknown or is not applicable, the noise standard shall be applied at the property line of the receiving land use. When determining the effectiveness of noise mitigation measures, the standards shall be applied on the receiving side of noise barriers or other property line noise mitigation measures.

San Joaquin County Public Health and Safety Element noise-related goals and policies include the following:

- Goal PHS-9
    - To protect County residents from the harmful and nuisance effects of exposure to excessive noise.
- Policies
    - PHS-9.1 Noise Standards for New Land Uses. The County shall require new development to comply with the noise standards (refer to PEA Tables 5.13-10 and 5.13-11) through proper site and building design, such as building orientation, setbacks, barriers, and building construction practices.
    - PHS-9.4 Acceptable Vibration Levels. The County shall require construction projects anticipated to generate a significant amount of vibration to ensure acceptable interior vibration levels at nearby vibration-sensitive uses based on FTA criteria.
    - PHS-9.6 Enforcement of State and Federal Noise Regulations. The County shall continue to enforce State and Federal noise laws regarding vehicle operation, equipment, and building insulation.
    - PHS-9.7 Require Acoustical Study. The County shall require a project applicant to prepare an acoustical study for any proposed new residential or other noise-sensitive development when the County determines the proposed development may expose people to noise levels exceeding acceptable General Plan noise levels.
    - PHS-9.9 Noise Exemptions. The County shall support the exemption of the following noise sources from the standards in this section:
        - Emergency warning devices and equipment operated in conjunction with emergency situations, such as sirens and generators which are activated during power outages. The routine testing of such warning devices and equipment shall also be exempt provided such testing occurs during the hours of 7:00 a.m. to 10:00 p.m.
        - Activities at schools, parks, or playgrounds, provided such activities occur during daytime hours.
        - Activities associated with County-permitted temporary events and festivals.

The noise ordinance for San Joaquin County is established by the County Municipal Code (San Joaquin County 2022). Section 9-1025.9 establishes noise limits for transportation and stationary noise sources

aligning with those included in the General Plan (refer to PEA Tables 5.13-10 and 5.13-11). Operational noise is subject to Section 9-1025.9(a)2:

- Stationary Noise Sources – Proposed projects that will create new stationary noise sources or expand existing stationary noise sources shall be required to mitigate the noise levels from these stationary noise sources so as not to exceed the noise level standards specified in Table 9-1025.9, Part II.

Construction noise is exempted from the noise standards in Section 9-1025.9(c):

- Noise sources associated with construction, provided such activities do not take place before 6:00 a.m. or after 9:00 p.m. on any day
- Noise sources associated with work performed by private or public utilities in the maintenance or modification of its facilities

Prohibited activities captured in Section 9-1025.9(f) are applicable to both operation and construction noise: "The outdoor operation of any industrial, commercial, or residential property maintenance tool or equipment powered by an internal combustion engine or electric motor including, but not limited to, leaf blower, chainsaw, lawn mower, hedger, and vacuum cleaner is prohibited within 500 feet of a residence located in a residential zone between the hours of 9:00 p.m. and 8:00 a.m."

If a project may expose existing or proposed noise sensitive land uses to noise levels exceeding noise standards specified in Tables 5.13-10 and 5.13-11, the Review Authority will require the preparation of an acoustical study. The study is to be based on the existing or future 65 dB L_{dn} noise contour in the General Plan, the proximity of new noise sensitive land uses to known noise sources, or the knowledge that a potential for adverse noise impacts exists.

Section 9-1025.5 of the San Joaquin County Municipal Code (2022) addresses vibration. Use resulting in perceptible displacement at any lot line abutting any zone except the General Industrial Zone is prohibited. In the General Industrial Zone, vibration displacement along lot lines will not exceed the levels set forth in Table 5.13-12.

Table 5.13-12. Maximum Displacement Levels at Any Lot Line

Frequency (cycles per second)	Steady State (inches)	Impact (inches)
10 and below	0.0010	0.0020
10-20	0.0008	0.0016
20-30	0.0007	0.0014
30-40	0.0003	0.0006
40-50	0.0002	0.0004
50-60	0.0001	0.0002
60 and over	0.0001	0.0002

Source: San Joaquin County Municipal Code 2022 (Ord. 3813 (part), 1994)

City of Lodi

The *City of Lodi General Plan* governs the city actions relating to the long-term physical and economic development of the city and provide strategies and actions to meet the envisioned development (City of Lodi 2010). The noise element in the general plan identifies the noise sources that exist within the city, describes noise impacts that may result from the General Plan, and establishes policies to mitigate potential impacts through both preventative and responsive actions (City of Lodi 2010). Table 5.13-13 indicates the acceptable limits of noise for various land uses for both exterior and interior environments. These limits are based on guidelines provided by the Governor's Office of Planning and Research (City of Lodi 2010).

Table 5.13-13. Allowable Noise Exposure, Outdoor and Interior

Land Use	Outdoor Activity Areas[a] (CNEL)	Interior Areas (CNEL)
Residential	60	45
Motels/Hotels	60	45
Public/Semi-Public	65	45
Recreational	65	50
Commercial	65	50
Industrial	70	65

Note: [a] For non-residential uses, where an outdoor activity area is not proposed, the standard does not apply.

Source: *City of Lodi General Plan*, 2010, Table 9-3, Page 9, Chapter 9: Noise.

The *City of Lodi General Plan* Noise Element describes guiding policies and implementing policies to meet the state and local noise exposure standards. The policies relevant to this project include the following:

- Policies
  - N-G1 Protect humans, the natural environment, and property from manmade hazards due to excessive noise exposure.
  - N-G2 Protect sensitive uses, including schools, hospitals, and senior care facilities, from excessive noise.
- Implementing Policies
  - N-P1 Control and mitigate noise at the source where feasible, as opposed to at the receptor end.
  - N-P2 Encourage the control of noise through site design, building design, landscaping, hours of operation, and other techniques for new development deemed to be noise generators.
  - N-P5 Noise sensitive uses, such as residences, hospitals, schools, libraries, and rest homes, proposed in areas that have noise exposure levels of "conditionally acceptable" and higher must complete an acoustical study, prepared by a professional acoustic engineer. This study should specify the appropriate noise mitigation features to be included in the design and construction of these uses, to achieve interior noise levels consistent with noise exposure standards (refer to PEA Table 5.13-13).
  - N-P8 Update Noise Ordinance regulations to address allowed days and hours of construction, types of work, construction equipment (including noise and distance thresholds), notification of neighbors, and sound attenuation devices.
  - N-P14 Reduce vibration impacts on noise-sensitive land uses (such as residences, hospitals, schools, libraries, and rest homes) adjacent to the railroad, SR 99, expressways, and near noise-generating industrial uses. This may be achieved through site planning, setbacks, and vibration-reduction construction methods such as insulation, soundproofing, staggered studs, double drywall layers, and double walls.

The noise ordinance for the City of Lodi is established by the City of Lodi Code of Ordinances (2021) in Section 17.14 and Section 9.24. Section 17.14 is applicable to operational noise and sets the maximum allowable noise standards at those found in the General Plan:

17.14.040 – General Performance Standards. All land uses activities, and processes shall be operated and maintained so as to not be injurious to public health, safety or welfare, and to comply with the following standards: …

F. Noise. No use, activity, or process shall exceed the maximum allowable noise standards identified by the general plan.

Operational noise and construction noise are subject to noise regulations established in Section 9.24. Construction noise is included in the definition of *commercial noise*: "noise or sound generated or created by the use, operation, or maintenance of any commercial activity, including but not limited to the operation of machinery, construction equipment, manufacturing equipment, motor vehicles operated in conjunction with such use, and shall include but not limited to compressors, fans, air conditioning units, and sound amplification systems utilized in conjunction with such functions." Section 9.24 establishes restrictions on public nuisance noise and excessive offensive or disturbing noises, as well as exemptions to these restrictions. Section 9.24 does not define numeric maximum sound levels, instead establishing a set of standards to determine violations of the regulations:

- The volume of the noise
- The intensity of the noise
- Whether the nature of the noise is usual or unusual for the area and hour
- Whether the origin of the noise is natural or unnatural
- The volume and intensity of the background noise, if any
- The proximity of the noise to residential sleeping facilities
- The nature and the zoning of the area within which the noise emanates
- The density of the inhabitation of the area within which the noise emanates
- The time of day or night the noise occurs
- The duration of the noise
- Whether the noise is produced by a commercial or noncommercial activity

Section 9.24.030(c) presents time limits establishing noise as excessive, offensive, or disturbing:

It is unlawful for any person, firm or corporation to cause, permit, or generate any noise or sound as described herein between the hours of ten p.m. and seven a.m. which exceeds the ambient noise level at the property line of any residential property (or, if a condominium or apartment house within any adjoining apartment) as determined at the time of such reading by more than five decibels. This section shall be applicable whether such noise or sound is of a commercial or noncommercial nature.

Section 9.24.050(e) exempts sound-causing equipment operating under a city license or permit.

5.13.3 Impact Questions

The project's potential noise-related effects were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.13-14 and discussed in more detail in Section 5.13.4.

Table 5.13-14. CEQA Checklist for Noise

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generate excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

5.13.3.1 Additional CEQA Impact Questions

None.

5.13.4 Potential Impacts Analysis

The following sections describe significance criteria for noise-related impacts derived from Appendix G of the CEQA Guidelines, provide APMs and BMPs, and assess potential project-related construction and operational noise impacts. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.13.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts related to noise were evaluated for each of the criteria listed in Table 5.13-14, as discussed in Section 5.13.4.3.

5.13.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs:

APM NOI-1: PG&E General Construction Noise Management

PG&E will employ standard noise-reducing construction practices such as the following:

- Comply with manufacturer's muffler requirements on all construction equipment engines and ensure exhaust mufflers are in good condition.
- Turn off construction equipment when not in use, where applicable.
- Locate stationary equipment, construction staging areas, helicopter landing zones, and construction material areas as far as practical from sensitive receptors.
- Include noise control requirements for construction equipment and tools in specifications provided to construction contractors to the maximum extent practicable, including performing all work in a manner that minimizes noise.
- PG&E will provide written notice at least 1 week prior to planned construction activities to all sensitive receptors and residences within approximately 500 feet of construction sites, staging yards, and access roads, and within approximately 1,000 feet of helicopter landing zones. PG&E also will post notices in public areas, including recreational use areas, within approximately 500 feet of the project alignment and construction work areas. The announcement will state

approximately where and when construction will occur in the area, including areas of helicopter construction. Notices will provide tips on reducing noise intrusion – for example, by closing windows facing the planned construction. PG&E will identify a public liaison to respond to concerns of neighboring receptors during construction, including residents, about construction noise disturbance. PG&E also will establish a toll-free telephone number for receiving questions or concerns during construction and develop procedures for responding to callers. Contact information for reaching the PG&E public liaison officer by telephone or in person will be included in the notices and also posted conspicuously at the construction sites. PG&E will respond to questions or concerns received.

BMP NOI-1: LEU General Construction Noise Management

LEU will employ standard noise-reducing construction practices such as the following:

- Comply with manufacturer's muffler requirements on all construction equipment engines and ensure exhaust mufflers are in good condition.
- Turn off construction equipment when not in use, where applicable.
- Locate stationary equipment, construction staging areas, and construction material areas as far as practical from sensitive receptors.
- Include noise control requirements for construction equipment and tools in specifications provided to construction contractors to the maximum extent practicable, including performing all work in a manner that minimizes noise.
- LEU will provide written notice at least 1 week prior to planned construction activities to all sensitive receptors and residences within approximately 500 feet of construction sites, staging yards, and access roads. LEU will post notices in public areas, including recreational use areas, within approximately 500 feet of the construction work areas. The announcement will state approximately where and when construction will occur in the area. Notices will provide tips on reducing noise intrusion – for example, by closing windows facing the planned construction. LEU will identify a public liaison to respond to concerns of neighboring receptors during construction, including residents, about construction noise disturbance. LEU also will establish a toll-free telephone number for receiving questions or concerns during construction and develop procedures for responding to callers. Contact information for reaching the LEU public liaison officer by telephone or in person will be included in the notices and also posted conspicuously at the construction sites. LEU will respond to questions or concerned received.

APM NOI-2: PG&E Noise Minimization with Portable Barriers

Compressors and other small stationary equipment used during construction of PG&E project components will be shielded with portable barriers if appropriate and if located within approximately 200 feet of a residence.

BMP NOI-2: LEU Noise Minimization with Portable Barriers

Compressors and other small stationary equipment used during construction of LEU project components will be shielded with portable barriers if appropriate and if located within approximately 200 feet of a residence.

APM NOI-3: PG&E Noise Minimization with Quiet Equipment

Quiet equipment will be used during construction of PG&E project components whenever possible (for example, equipment that incorporates noise-control elements into the design, such as quiet model compressors or generators, can be specified).

BMP NOI-3: LEU Noise Minimization with Quiet Equipment

Quiet equipment will be used during construction of LEU project components whenever possible (for example, equipment that incorporates noise-control elements into the design, such as quiet model compressors or generators, can be specified).

APM NOI-4: PG&E Noise Minimization through Direction of Exhaust

When in proximity to noise-sensitive uses, PG&E equipment exhaust stacks and vents will be directed away from those noise-sensitive uses where feasible.

BMPNOI-4: LEU Noise Minimization through Direction of Exhaust

When in proximity to noise-sensitive uses, LEU equipment exhaust stacks and vents will be directed away from those noise-sensitive uses where feasible.

APM NOI-5: PG&E Noise Disruption Minimization through Residential Notification

In the event that nighttime construction is necessary for PG&E project components– for instance, if certain activities such as line splicing or HDD in certain soil conditions need to continue to completion – affected residents will be notified in advance by mail, personal visit, or door-hanger, and will be informed of the expected work schedule.

BMP NOI-5: LEU Noise Disruption Minimization through Residential Notification

In the event that nighttime construction is necessary for LEU project components – for instance, if certain activities such as HDD in certain soil conditions need to continue to completion – affected residents will be notified in advance by mail, personal visit, or door-hanger, and will be informed of the expected work schedule.

APM NOI-6: PG&E Horizontal Directional Drilling Noise Minimization Measures

Temporary barriers utilizing materials such as intermodal containers or frac tanks, plywood walls, mass-loaded vinyl (vinyl impregnated with metal), sound-absorbing blankets, hay bales, or similar materials will be used to reduce noise generated by the auger bore operations. HDD activities will be limited to daylight hours unless a situation arises where ceasing the activity would compromise safety (both human health and environmental) and the integrity of the project. If nighttime HDD activities are required, the project will monitor actual noise levels from the HDD activities between 10:00 p.m. and 7:00 a.m. If the nighttime noise levels created by the HDD operation result in outreach to PG&E public liaison officer and are in excess of the ambient noise level by approximately 5 dBA at the nearest residential property plane, PG&E will, within 24 hours of the excess measurement, employ additional minimization measures to the greatest extent practicable. Such measures may include ensuring that semipermanent stationary equipment (for example, generators) is stationed as far from sensitive areas as practicable, using sound-attenuated "quiet" or "Hollywood/Movie Studio" silencing packages, or modifying barriers to further reduce noise levels.

BMP NOI-6: LEU Horizontal Directional Drilling Noise Minimization Measures

Temporary barriers utilizing materials such as intermodal containers or frac tanks, plywood walls, mass-loaded vinyl (vinyl impregnated with metal), sound-absorbing blankets, hay bales, or similar materials will be used to reduce noise generated by the auger bore operations. HDD activities will be limited to daylight hours unless a situation arises where ceasing the activity would compromise safety (both human health and environmental) and the integrity of the project. If nighttime HDD activities are required, the project will monitor actual noise levels from HDD activities between 10:00 p.m. and 7:00 a.m. If the nighttime noise levels created by HDD operation result in outreach to LEU public liaison officer and are in excess of the ambient noise level by approximately 5 dBA at the nearest residential property plane, LEU will, within 24 hours of the excess measurement, employ additional minimization measures to the extent practicable. Such measures may include ensuring that semi-permanent stationary equipment (for

example, generators) is stationed as far from sensitive areas as practicable, using sound-attenuated "quiet" or "Hollywood/Movie Studio" silencing packages, or modifying barriers to further reduce noise levels.

APM NOI-7: PG&E Noise Minimization Equipment Specification

PG&E will specify general construction noise reduction measures that require the contractor to ensure that all equipment is in good working order, adequately muffled, and maintained in accordance with the manufacturers' recommendations.

BMP NOI-7: LEU Noise Minimization Equipment Specification

LEU will specify general construction noise reduction measures that require the contractor to ensure that all equipment is in good working order, adequately muffled, and maintained in accordance with the manufacturers' recommendations.

5.13.4.3 Potential Impacts

Project impacts related to noise were evaluated against the CEQA significance criteria and are discussed in the following section. This section evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

Construction

Although the project is exempt from local land use and zoning regulations, the project will nevertheless be consistent with the local noise ordinance. San Joaquin County exempts noise from construction activities that take place between 6:00 a.m. and 9:00 p.m. At each structure location, construction activities will be short term (typically several days) and temporary, and are planned to take place between 7:00 a.m. and 7:00 p.m. The City of Lodi limits the increase in sound levels to 5 dBA between the hours of 10:00 p.m. and 7:00 a.m. Outside of these hours, there is no numeric limit. Within the City of Lodi, construction activities are planned to take place between 7:00 a.m. and 7:00 p.m. It is also possible that construction beyond these hours may be necessary to reach a safe stopping point. If construction outside of these hours is

necessary to accommodate planned electrical outages (clearances) scheduled at night, PG&E will implement APM NOI-1 and APM NOI-5, which requires advance notice to property owners near construction activities. Because the County noise ordinance recognizes exceptions to these hours for emergency work and other exigencies, and any such work near a sensitive receptor will be brief, the project will be consistent with the noise policies contained in these ordinances, even in the unlikely event that work outside the prescribed hours is required. Construction of most project components will occur only for a short period of time at any given location and will move along the length of the line. Per the County regulations, construction of the project will result in a less-than-significant impact. The implementation of APMs will further minimize exposure to less-than-significant construction noise.

Operation and Maintenance

Audible noise on transmission lines and structures is caused by the effects of corona and the electric field gradient. Corona and the electric field gradient are functions of transmission line voltage, altitude, conductor diameter, and condition of the conductor and the suspension hardware. The noise emissions from a transmission line increase under wet conductor conditions because the surface irregularities resulting from the formation of water droplets on the outer surface of the conductors concentrate the electric field. Resistive heating of the conductor under load increases the conductor temperature and evaporates surface moisture. Thus, audible noise from a transmission line generally is evaluated for foul weather, which generally is defined as periods with measurable precipitation (nominally, 1 millimeter per hour). During heavy rain, the sound of the rain itself is expected to exceed that of the transmission line. Newly constructed transmission line may generate a higher level of noise for a short period (typically 1 year) and then will level off to a lower audible noise level. This happens during the initial weathering phase, which is the time when any residual surface oil from the manufacturing of the line or other irregularities resulting from the construction process dissipates. Corona typically becomes a design concern for transmission lines at 345 kV and higher.

The addition of the proposed Northern San Joaquin 230 kV Transmission Line is not predicted to cause any noise sensitive receptor to exceed 45 dBA during foul weather conditions. Corona noise generally is more noticeable on high-voltage lines and usually is not a design issue for power lines rated at 345 kV and lower (CPUC 2009). When initially energized and for a period expected to last less than approximately 1 year, there is potential for new conductor effects associated with drawing oil and residual grease on the new conductor surfaces to increase the audible noise level temporarily and nominally. The conductor's non-specular finish will minimize the duration and magnitude of the potential new conductor effects.

Proposed changes to PG&E Lockeford Substation and PG&E Thurman Switching Station do not add significant new sources of noise. The additional control and battery enclosures do not have substantial sound emissions and no new substation transformers are proposed. Table 5.13-15 provides sound pressure levels identified at PG&E Lockeford Substation and PG&E Thurman Switching Station at 5 feet. The closest residence to the new equipment at PG&E Lockeford Substation is approximately 750 ft (residence 30). At this distance the proposed new equipment sound emission is expected to be approximately 35 dBA. The closest residence to the new equipment at PG&E Thurman Switching Station is 1,680 feet (residence 92). At this distance the proposed new equipment sound emission is expected to be less than 30 dBA. Thus, no substantial increases in sound levels at noise sensitive receivers in the vicinity of PG&E Lockeford Substation and PG&E Thurman Switching Station is anticipated. Therefor the impacts from operation noise will be less than significant.

Table 5.13-15. Sound Pressure Level at 5 Feet at New PG&E Station Equipment

Equipment	Approximate Sound Pressure Level at 5 feet (dBA)
PG&E Lockeford Substation	
Control Enclosure	79
Battery Enclosure	69
PG&E Thurman Switching Station	
Battery Enclosure	69
Control Enclosure	74

Maintenance activities for the new switching station and transmission lines typically will occur over short timeframes and generate minimal noise. As with existing maintenance activities involving noise-generating equipment or vehicles, noise-reduction measures will be employed to reduce temporary noise impacts as described in APM NOI-1 through APM NOI-7. Therefore, during operation and maintenance, no exposure of persons to or generation of noise levels in excess of standards established in the local general plans or noise ordinances, or applicable standards of other agencies, is anticipated; and maintenance and operations will have a less-than-significant impact.

LEU Potential Impact Discussion

Construction

LEU's portion of the project will be consistent with the local noise ordinance. The City of Lodi limits the increase in sound levels to 5 dBA between the hours of 10:00 p.m. and 7:00 a.m. Outside of these hours, there is no numeric limit. Construction activities are planned to take place between 7:00 a.m. and 7:00 p.m. It is also possible that construction beyond these hours may be necessary to reach a safe stopping point. If construction outside of these hours is necessary to accommodate planned electrical outages (clearances) scheduled at night, LEU will implement BMP NOI-1 and BMP NOI-5, which require advance notice to property owners near construction activities. The nearest sensitive receptor that will experience the highest sound levels from construction noise is residence 92, located approximately 750 feet from the easternmost HDD pit for the underground portion of the LEU line, and the Lodi Memorial Park and Cemetery located on the opposite side of East Lodi Avenue approximately 130 feet from the easternmost HDD pit. Construction noise at residence 92 is expected to be approximately 63 to 69 dBA (Table 5.13-2). Construction noise at the cemetery is expected to range between approximately 74 and 79 dBA (Table 5.13-2). Per the City's noise ordinance, which has no numeric limit for construction occurring between 7:00 a.m. and 10:00 p.m., construction of the project will result in a less-than-significant impact. These levels also are below the construction noise thresholds established by the FTA (refer to Tables 5.13-8 and 5.13-9). The implementation of BMPs will further minimize exposure to less-than-significant construction noise.

Operation and Maintenance

The main source of noise will be the stationary electrical equipment operating at LEU Guild Substation, which includes two 230/60 kV transformers and the two HVAC units at the control enclosure located along the northern side of the yard, just south of the proposed access road. The two proposed transformers are expected to have a maximum sound level of 76 dBA in accordance with IEEE Standard C57.136 or be equipped with a comparable mitigation solution. The two HVAC units are expected to have a maximum sound level of 70 dBA at 3 feet or be equipped with a comparable mitigation solution. Transformers are approximately 900 feet from the Lodi Memorial Park and Cemetery and the HVAC units are approximately 850 feet from the Lodi Memorial Park and Cemetery. The sound level at the boundary of Lodi Memorial Park and Cemetery is predicted to be approximately 38 dBA, which is less than the applicable code requirement. Residences are located farther away than the cemetery and the substation sound level would be less than 38 dBA, which will comply with the applicable code. When construction is complete, access roads are expected to be used infrequently and not considered a significant noise source.

The modifications at LEU Industrial Substation are not expected to change the operational noise emitted from the substation. LEU Industrial Substation sound levels were included in the model and calibrated to the sound study measurements. The relocated LEU 12 kV feeder line will be located underground and is not considered a significant noise source.

b) Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

Construction

Construction activities have the potential to result in varying degrees of temporary groundborne vibration, depending on the specific equipment used and operations involved. Vibration generated by construction equipment spreads through the ground and diminishes in magnitude as distance increases. Table 5.13-16 displays vibration levels for typical construction equipment.

Table 5.13-16. Typical Construction Equipment Vibration Levels

Equipment	PPV at 25 feet (in/sec)
Large Bulldozer	0.089
Caisson Drilling	0.089
Trucks	0.076
Jackhammer	0.035
Small Bulldozer	0.003

Source: FTA 2018

in/sec = inch(es) per second

Bulldozers and other construction equipment would be used regularly in the construction of the project. In addition, heavy trucks would be used to deliver and remove material to and from the site.

The risk of construction vibration damage from each piece of equipment can be assessed by adjusting the PPV from the reference PPV at 25 feet to the actual distance from the equipment to the receiver by applying the following equation:

$$PPV_{equip} = PPV_{ref} \times \left(\frac{25}{D}\right)^{1.5}$$

Where:

PPV_{equip} = the peak particle velocity of the equipment adjusted for distance, in/sec

PPV_{ref} = the source reference vibration level at 25 feet, in/sec

D = distance from the equipment to the receiver, feet

To determine the closest distance each type of building by building category presented in Table 5.13-5 can be to each type of equipment before sustaining damage, the equation was solved to find the distance at which the construction vibration damage criteria were met for each building category (Table 5.13-17).

Table 5.13-17. Typical Construction Equipment Vibration Levels in PV

Equipment	PPV at 25 feet (in/sec)	Building Category (Construction Vibration Damage Criteria)			
		1 (0.5 in/sec)	2 (0.3 in/sec)	3 (0.2 in/sec)	4 (0.12 in/sec)
Large Bulldozer	0.089	<25	<25	<25	<25
Caisson Drilling	0.089	<25	<25	<25	<25
Trucks	0.076	<25	<25	<25	<25
Jackhammer	0.035	<25	<25	<25	<25
Small Bulldozer	0.003	<25	<25	<25	<25

Source: FTA 2018

The distances determined indicate that, for all building categories, general construction equipment must be less than 25 feet from the building to cause damage. For this project, expected construction equipment in the upper ranges have the greatest potential to cause damage to buildings, so the closest expected construction equipment can occur to a building type of Category 4 is <25 feet. Category 4 buildings are "extremely susceptible to vibration damage" with construction very sensitive to vibration; these may be objects or buildings of historic interest. No Category 4 buildings are within approximately 25 feet of the PG&E portion of the project.

Additionally, groundborne vibration and noise will occur during daytime hours and will be short term in duration. Therefore, construction of the proposed project will result in a less-than-significant impact.

Operation and Maintenance

Equipment associated with normal operation and maintenance of the proposed project will not produce any groundborne noise or vibration; therefore, operation and maintenance of the project will result in no impact.

LEU Potential Impact Discussion

Table 5.13-17 identifies that for all building categories, general construction equipment must be less than 25 feet from the building to cause damage. For this project, expected construction equipment in the upper ranges have the greatest potential to cause damage to buildings, so the closest expected construction equipment can occur to a building type of Category 4 is <25 feet. Category 4 buildings are "extremely susceptible to vibration damage" with construction very sensitive to vibration; these may be objects or buildings of historic interest. No Category 4 buildings are within approximately 25 feet of the LEU portion of the project.

Additionally, groundborne vibration and noise will occur during daytime hours and will be short term in duration. Therefore, construction of the proposed project will result in a less-than-significant impact.

Operation and Maintenance

Equipment associated with normal operation and maintenance of the proposed project will not produce any groundborne noise or vibration; therefore, operation and maintenance of the project will result in no impact.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? *No Impact.*

PG&E Potential Impact Discussion

Construction, operation, and maintenance of the PG&E project components will occur at a distance greater than 2 miles from a public airport; therefore, the project will result in no impact under this criterion.

LEU Potential Impact Discussion

Construction, operation, and maintenance of the LEU project components will occur at a distance greater than 2 miles from a public airport; therefore, the project will result in no impact under this criterion.

5.14 Population and Housing

This section describes existing conditions and potential impacts on population and housing as a result of project construction, operation, and maintenance. The analysis concludes that the project will have no impact on population and housing. The project's potential effects on population and housing were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.14-1 (located in Section 5.14.3) and discussed in more detail in Section 5.14.4.

5.14.1 Methodology and Environmental Setting

To evaluate potential effects on population and housing resources, the City of Lodi General Plan Housing Element (City of Lodi 2016), the San Joaquin County General Plan (San Joaquin County 2016), SJCOG data, and U.S. Census Bureau data were reviewed. SJCOG is a regional planning group of representatives from San Joaquin County and its seven incorporated cities. The data and project information were evaluated to assess impacts according to the CEQA significance criteria in Table 5.14-1. The population and growth data and the project purpose and need were reviewed for use in evaluating whether the project could indirectly induce growth. Information on displacement of housing or people was evaluated in light of the project description and hotel and housing vacancy rates (Statista 2022). This section evaluates potential project impacts from both the construction phase and the operation and maintenance phase.

5.14.1.1 Population Estimate

In 2020, the San Joaquin Valley had a regional population of approximately 4.3 million people (Public Policy Institute of California 2020). The San Joaquin Valley is an eight-county region that includes the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare. San Joaquin County had a population of approximately 788,140 people in 2021 (U.S. Census Bureau 2021). SJCOG estimates that the County's current growth rate is approximately 1.76% and projects the population of San Joaquin County to be approximately 870,000 by 2030 and 980,000 by 2050 (SJCOG 2022a). The majority of the Pacific Gas and Electric Company's (PG&E's) 230 kV DCTL, PG&E's Lockeford Substation, and a small portion of the eastern end of PG&E's existing Lockeford-Industrial 60 kV power line modification work is located within San Joaquin County.

As of 2021, the City of Lodi had a population of approximately 67,021 people (U.S. Census Bureau 2021). The City of Lodi's planned annual growth rate is 2% as established in its Growth Management Allocation Ordinance (City of Lodi 2010). If 2% growth occurred each year, Lodi's population would be approximately 80,096 by 2030 and approximately 119,019 by 2050. However, SJCOG estimates that Lodi's population will be 75,445 in 2030 and 82,359 in 2050 (SJCOG 2020). PG&E project components within the City of Lodi include the portions of the three existing PG&E 60 kV lines currently terminating at LEU Industrial Substation that will be reconfigured after the 230 kV source is in service; the new PG&E Thurman Switching Station; an extended PG&E 12 kV service line for secondary station power; and approximately 1.550 feet of the western extent of the new PG&E 230 kV transmission line. LEU project components within the City of Lodi include the existing LEU Industrial Substation, new LEU Guild Substation, and existing LEU 12 kV customer feeder line relocated to an underground configuration. The LEU project components are within the city limits.

5.14.1.2 Housing Estimates

As of 2019, approximately 248,636 housing units were located in San Joaquin County, with a vacancy rate of 6.7 % (U.S. Census Bureau 2022; SJCOG 2017). SJCOG projects that the number of households in San Joaquin County, based on estimates of householders, will grow to 271,810 by 2030 and 302,229 by 2045 (SJCOG 2020, Table 10). Only PG&E project components, including the majority of the new 230 kV transmission line, a portion of the PG&E 60 kV power line modifications, and PG&E Lockeford Substation, are located within San Joaquin County.

The City of Lodi had approximately 23,142 households, based on the 2015–2019 5-year estimate (U.S. Census Bureau 2022). According to the *City of Lodi General Plan*, medium-density and some high-density housing is planned for highly accessible areas near transit, commercial corridors, and downtown, and in and near mixed-use centers. The number of households in the City of Lodi is projected to grow annually at a rate of 0.5% until 2025 (City of Lodi 2016). SJCOG projects that the number of households in Lodi, based on estimates of householders, will grow to 26,085 by 2030 and 27,881 by 2045 (SJCOG 2020, Table 10). There are no approved housing developments within approximately 1 mile of the project, including both PG&E and LEU portions of the project (City of Lodi 2020; San Joaquin County 2022).

5.14.1.3 Approved Housing Developments

No approved housing developments were found within 1 mile of the project (Shahriar 2022; SJCOG 2022b).

5.14.2 Regulatory Setting

No regulatory background information is relevant to addressing potential project-related impacts on population and housing.

5.14.3 Impact Questions

The project's potential effects on population and housing were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.14-1 and discussed in more detail in Section 5.14.4.

Table 5.14-1. CEQA Checklist for Population and Housing

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

5.14.3.1 Additional CEQA Impact Questions

None.

5.14.4 Potential Impact Analysis

Project impacts related to population and housing were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.14.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary

with the setting. In accordance with Appendix G of the CEQA Guidelines, the potential significance of project impacts on population and housing were evaluated for each of the criteria listed in Table 5.14-1, as discussed in Section 5.14.4.3.

5.14.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have no impact on population and housing, and no APMs or BMPs are proposed.

5.14.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? *No Impact.*

PG&E Potential Impact Discussion

The project consisting of both PG&E and LEU portions of the project will strengthen the existing power infrastructure to better serve existing and planned future customers in the area by preventing service interruptions. The project does not propose new housing, businesses, or other land use changes, including roads or infrastructure, that will induce population growth in the area.

PG&E construction workers (approximately 40 of approximately 66 at the peak estimate of workforce) will consist primarily of either existing PG&E workers in the local area or workers who commute from neighboring cities. Because the construction duration will be relatively short (approximately 34 months with gaps when no construction will occur at PG&E portion of the project), it is not expected that the construction workers from outside the area will permanently relocate to the area.

Operation and maintenance of the new 230 kV transmission line and the PG&E stations will be performed by existing PG&E workers. Thus, the project will not directly or indirectly induce substantial unplanned population growth, and no impact will occur.

LEU Potential Impact Discussion

The project, consisting of both PG&E and LEU portions of the project, will strengthen the existing power infrastructure to better serve existing and planned future customers in the area by preventing service interruptions. The project does not propose new housing, businesses, or other land use changes, including roads or infrastructure, that will induce population growth in the area.

With respect to LEU portion of the project, construction workers (approximately 26 of approximately 66 at the peak estimate of workforce) will consist primarily of either existing LEU workers in the local area or workers who commute from the neighboring cities. Because the construction duration for the LEU portion of the project is relatively short (approximately 13 months with gaps when no construction during the overall project construction activities), it is not expected that the construction workers from outside the area will permanently relocate to the area.

Operation and maintenance of the new and modified LEU substations will be performed by existing LEU workers. Thus, the project will not directly or indirectly induce substantial unplanned population growth, and no impact will occur.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? *No Impact*.

PG&E Potential Impact Discussion

Project construction, operation, and maintenance of the PG&E portion of the project will not displace existing housing or people, nor will replacement housing need to be constructed; therefore, no impact will occur.

LEU Potential Impact Discussion

Project construction, operation, and maintenance of the LEU portion of the project will not displace existing housing or people, nor will replacement housing need to be constructed; therefore, no impact will occur.

5.15 Public Services

This section describes existing conditions and potential impacts on public services as a result of construction, operation, and maintenance of the project, and concludes no impacts will occur. Public services include fire and emergency protection, police protection, and maintenance of public facilities such as schools and parks. Emergency access is discussed in Section 5.17, Transportation. Temporary construction-related impacts on schools and parks—such as dust and noise—are discussed in Sections 5.3, Air Quality, and 5.13, Noise, respectively. Project compatibility with future park-planning efforts is discussed in Section 5.11, Land Use and Planning. Potential impacts to parks and recreational facilities are discussed in Section 5.16, Recreation. The project's potential effects on public services were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Tables 5.15-1 in Section 5.15.3 and discussed in more detail in Section 5.15.4.3.

5.15.1 Methodology and Environmental Setting

This section was prepared based on reviews of the *City of Lodi General Plan* (City of Lodi 2010); *San Joaquin County General Plan* (San Joaquin County 2016); the websites of various entities, including the City of Lodi Fire, Police, and Parks and Recreation Departments, Linden and Lodi Unified School Districts, San Joaquin County Parks, and the San Joaquin County Sheriff's Office (SJCSO); the San Joaquin County Geographic Information System (SJC GIS); and the San Joaquin Local Agency Formation Commission (LAFCo) regarding rural fire protection.

5.15.1.1 Service Providers

Fire Protection

San Joaquin County

CAL FIRE, independent special district fire departments, and city fire departments provide fire protection services for the unincorporated areas of San Joaquin County. All public fire protection agencies in San Joaquin County operate under a master mutual aid agreement. There are 22 fire protection districts in San Joaquin County, including Mokelumne and Clements Rural Fire District (SJC GIS 2022; San Joaquin County 2014). The project is not located within or near a State Responsibility Area, as described in Section 5.20, Wildfire, therefore CAL FIRE is not responsible for providing fire protection for the project. The fire districts that the project traverses are the Mokelumne, Clements, and Lodi Fire Protection Districts (SJC GIS 2022). Outside of the City of Lodi, the project is within the Mokelumne Fire Protection District except for the portion east of North Tully Road, which is in the Clements Fire Protection District. The majority of the Pacific Gas and Electric Company's (PG&E's) 230 kV DCTL, PG&E's Lockeford Substation, and a small portion of the eastern end of PG&E's existing Lockeford-Industrial 60 kV power line modification work is located within the Mokelumne Fire Protection District and Clements Fire Protection District (Figure 5.15-1).

The total average response times for San Joaquin County (excluding the primary Public Safety Answering Point) are 9 minutes, 16 seconds for fire emergencies (excluding volunteer districts) and 7 minutes, 19 seconds for medical emergencies (excluding volunteer districts). The volunteer districts' average total response times are 11 minutes, 49 seconds for fire emergencies and 10 minutes, 52 seconds for medical emergencies. Clements Fire Protection District's average response time for fire emergencies is 5 minutes, 45 seconds, and for medical emergencies, it is 5 minutes, 8 seconds. Mokelumne Fire Protection District's average response time for fire emergencies is 4 minutes, 33 seconds, and for medical emergencies, it is 4 minutes, 16 seconds (San Joaquin LAFCo 2011).

City of Lodi

Fire protection in the City of Lodi portion of the project is provided by the City of Lodi Fire Department, which consists of four stations with a workforce of 51 firefighters, all located within City boundaries. Fire Station 2 is the closest station to the project, located on South Cherokee Lane, and it houses Fire Engine 2032 and State of California Office of Emergency Services Engine 338 (City of Lodi 2022a). The City of Lodi's response time for fire emergencies is 6 minutes for 90% of calls (City of Lodi 2010). The project is not located within or near a State Responsibility Area, as described in Section 5.20, Wildfire; therefore, CAL FIRE is not responsible for providing fire protection for the project. PG&E project components within the City of Lodi include the portions of the three existing PG&E 60 kV lines currently terminating at LEU Industrial Substation that will be reconfigured after the 230 kV source is in service; the new PG&E Thurman Switching Station; an extended PG&E electrical service line for secondary station power; and approximately 1,550 feet of the western extent of the new PG&E 230 kV DCTL. LEU project components within the City of Lodi include the existing LEU Industrial Substation, new LEU Guild Substation, and existing LEU electrical customer service line relocated to an underground configuration. The LEU project components are within 0.5 mile of the city limits.

Police Protection

San Joaquin County

The SJCSO provides law enforcement services to all unincorporated areas of San Joaquin County, including the portion of the project not located within the City of Lodi. SJCSO headquarters are located in the unincorporated community of French Camp (SJCSO 2022). The unincorporated County is divided into eight geographical areas (or "beats"); Beat 2 serves the project area (San Joaquin County 2014). The average response time within the County is appropriately 15 minutes and increases to 24 minutes for nonemergency calls. Response times vary depending on the number of officers in a patrol area, size of the patrol area, density of the population being served, distance to the call, amount of traffic congestion during the response period, and number of incidents that are simultaneously occurring (San Joaquin County 2014). The majority of the PG&E 230 kV DCTL, PG&E's Lockeford Substation, and the eastern end of the PG&E 60 kV power line reconfiguration work is within SJCSO's Beat 2 service area.

City of Lodi

The City of Lodi Police Department provides law enforcement services to the City of Lodi. There are 71 authorized sworn officers and 48 civilian employees in the City of Lodi Police Department. There are three districts within the City, and the project area is served by District 2 (City of Lodi 2022b). PG&E project components within the City of Lodi served by District 2 include the portions of the three existing PG&E 60 kV lines currently terminating at LEU Industrial Substation that will be reconfigured after the 230 kV source is in service; the new PG&E Thurman Switching Station; an extended PG&E 12 kV service line for secondary station power; and approximately 2,000 feet of the western extent of the new PG&E 230 kV DCTL. LEU project components within the City of Lodi served by District 2 include the existing LEU Industrial Substation, new LEU Guild Substation, and existing LEU 121 kV customer feeder line relocated to an underground configuration. The LEU project components are within city limits.

Official response times for the City of Lodi were unavailable; however, a 2013 article from the Lodi News indicated that response times depended on time of day and number of officers on shift and indicated that high-priority call response time was less than 5 minutes (Piombo 2013).

Schools

San Joaquin County

The San Joaquin County Office of Education includes 14 school districts. The following two school districts and two private schools, Lodi Seventh-Day Adventist Elementary School and Point Quest Education – Central Valley Campus, serve the communities within the project area. No public or private schools are located within 0.5 mile of the project. Schools are mapped within 1 mile of the project on Figure 5.15-1.

Lodi Unified School District

The Lodi Unified School District is within the San Joaquin County Office of Education and serves the project area west of North Tully Road. This district includes 32 elementary schools,15 middle and high schools, and 4 non-traditional schools within the City of Lodi, a northern area of the City of Stockton, and the surrounding communities encompassing a total of 350 square miles (Lodi Unified School District 2022). None of these schools are located within 0.5 mile of the project area. PG&E project components near the Lodi Unified School District include approximately 1.40 miles of the new PG&E 230 kV DCTL east of PG&E Lockeford Substation, PG&E Lockeford Substation, the new PG&E 230 kV DCTL west of PG&E Lockeford Substation, the portions of the three existing PG&E 60 kV lines currently terminating at LEU Industrial Substation that will be reconfigured after the 230 kV source is in service, the new PG&E Thurman Switching Station, and an extended PG&E 12 kV service line for secondary station power. LEU project components near the Lodi Unified School District include the existing LEU Industrial Substation, new LEU Guild Substation, and existing LEU electrical customer 12 kV feeder line relocated to an underground configuration.

Linden Unified School District

The Linden Unified School District is within the San Joaquin County Office of Education and serves the project area east of North Tully Road. This district includes four elementary schools, one high school, and one continuing education school. None of these schools are located within 0.5 mile of the project (Linden Unified School District 2022). The western 2.4 miles of the new PG&E 230 kV DCTL east of PG&E Lockeford Substation is located within the Linden Unified School District.

Parks and Other Public Facilities

There are several federal and state park facilities as well as 11 regional parks and recreation areas within San Joaquin County, none of which are within the project area. Local parks, including neighborhood parks, community parks, and mini parks, are primarily owned and operated by cities (San Joaquin County 2014). There are no San Joaquin County parks within 1 mile of the project (San Joaquin County Parks 2022). Additional information about impacts on recreational resources is provided in Section 5.16, Recreation.

The City of Lodi Parks, Recreation, and Cultural Services Department operates and maintains the eight public parks and recreation areas that are found within approximately 1 mile of the western end of the project in Lodi (Figure 5.15-1). These include Blakely Park, Chapman Field (Armory), Grape Bowl (Stadium), Grape Festival Grounds, Hale Park, Lawrence Park, Pixley Park, and Zupo Field (City of Lodi 2022c). Pixley Park is the closest City of Lodi facility to the western end of the project. Pixley Park is approximately 0.40 mile south of the new LEU and PG&E station facilities that would be located along East Thurman Road and South Guild Avenue, and approximately 0.60 mile west of the new PG&E 230 kV DCTL when it is located outside city limits (Figure 5.15-1).

5.15.2 Regulatory Setting

No regulatory background information is relevant to addressing potential project-related impacts on public services.

5.15.3 Impact Questions

The project's potential effects on public services were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.15-1 and discussed in more detail in Section 5.15.4.

Table 5.15-1. CEQA Checklist for Public Services

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

5.15.3.1 Additional CEQA Impact Questions

None

5.15.4 Potential Impact Analysis

Project impacts related to public services were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.15.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on mineral resources were evaluated for each of the criteria listed in Table 5.15-1, as discussed in Section 5.15.4.3.

5.15.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have no impact on public services, so no APMs or BMPs are proposed.

5.15.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing

PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: fire protection, police protection, schools, parks, other public facilities? *No Impact.*

PG&E Potential Impact Discussion

Project construction will result in a temporary short term increase of up to approximately 66 construction workers. Although construction workers traveling to the project may use existing public services or amenities, this potential increase in demand will be minimal and temporary, and will not require new or altered government facilities. The project will not include development of new residential units that will directly or indirectly increase population; therefore, no increase in the demand for public services in the area will occur. Furthermore no new or altered public facilities are needed. Therefore no construction impact will occur. Operation and maintenance visits will be conducted occasionally by PG&E staff but no increases in staff levels would be required that would trigger the need for new or altered facilities that could result in environmental impacts. Therefore, no operations or maintenance impacts will occur. Details are provided by service type in the following sections.

Fire and Police Protection

No new or altered fire or police protection facilities will be required to maintain acceptable response times or service ratios. In the unlikely event of fire at the project site, fire protocols described in Section 5.20, Wildlife will be followed. Construction vehicles and equipment will access project construction areas by using existing paved, dirt, or gravel roads and overland travel routes. Construction vehicles and equipment will be staged or parked within project area rights-of-way, approved temporary construction easements, or alongside access roads. Further, as described in Section 5.17, Transportation, during project construction, PG&E will coordinate any road closures with LEU and with emergency service providers so that response times are not affected. Therefore, no impact will occur.

Schools

The project will not involve developing new residential units or services that will generate a new residential population in the area. Therefore, the project will not cause an increase in the demand on existing schools that would affect school enrollment or performance objectives. No new or altered school facilities will be required to serve workers during construction, and operation does not require new permanent workers; therefore, no impact on schools will occur.

Parks and Other Public Facilities

Eight public parks and recreation areas are located within 1 mile of the western end of the project. The project will not involve developing new residential units or services that will generate a new daytime or residential population in the area that will increase the demand on parks. Construction workers traveling to the area may use existing public services or amenities such as parks; however, this potential increase in demand will be minimal and temporary and will not exacerbate the need for, or deterioration of, the park facilities nor result in the need for new facilities. Therefore, no impacts to public parks will occur. Potential construction- and operation-related recreation impacts to parks and other public facilities in the project area are evaluated in Section 5.16, Recreation.

LEU Potential Impact Discussion

Project construction will result in a temporary short term increase of up to approximately 66 construction workers. Although construction workers traveling to the project may use existing public services or amenities, this potential increase in demand will be minimal and temporary, and will not require new or altered government facilities. The project will not include development of new residential units that will directly or indirectly increase population; therefore, no increase in the demand for public services in the area will occur. Furthermore no new or altered public facilities are needed. Therefore no construction impact will occur. Operation and maintenance visits will be conducted occasionally by LEU staff but no increases in staff levels would be required that would trigger the need for new or altered facilities that could result in environmental impacts. Therefore no operations or maintenance impacts will occur. Details are provided by service type in the following sections.

Fire and Police Protection

No new or altered fire or police protection facilities will be required to maintain acceptable response times or service ratios. In the unlikely event of fire at the project site, fire protocols described in Section 5.20, Wildfire will be followed. Construction vehicles and equipment will access project construction areas by using existing paved, dirt, or gravel roads and overland travel routes. Construction vehicles and equipment will be staged or parked within project area rights-of-way, approved temporary construction easements, or alongside access roads. Further, as described in Section 5.17, Transportation, during project construction, LEU will coordinate any road closures with PG&E and with emergency service providers so that response times will not be affected. Therefore, no impact will occur.

Schools

The project will not involve developing new residential units or services that will generate a new residential population in the area. Therefore, the project will not cause an increase in the demand on existing schools that would affect school enrollment or performance objectives. No new or altered school facilities will be required to serve workers during construction, and operation does not require new permanent workers; therefore, no impact on schools will occur.

Parks and Other Public Facilities

Eight public parks and recreation areas are located within 1 mile of the western end of the project within the City of Lodi. The project will not involve developing new residential units or services that will generate a new daytime or residential population in the area that will increase the demand on parks. Construction workers traveling to the area may use existing public services or amenities such as parks; however, this potential increase in demand will be minimal and temporary and will not exacerbate the need for, or deterioration of, the park facilities nor result in the need for new facilities. Therefore, no impacts to public parks will occur. Potential construction- and operation-related recreation impacts to parks and other public facilities in the project area are evaluated in Section 5.16, Recreation.

5.16 Recreation

This section describes existing conditions and potential impacts on recreational resources as a result of construction, operation, and maintenance of the project and concludes that no impacts will occur in this area. The project's potential effects on recreation were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Tables 5.16-1 and 5.16-2 in Section 5.16.3 and discussed in more detail in Section 5.16.4.

5.16.1 Methodology and Environmental Setting

Recreation resources include recreational facilities, such as state, local, and regional parks. To identify parks and recreation areas within 1 mile of the project, the California Department of Parks and Recreation website and the Community Development Element of the *San Joaquin County General Plan* (San Joaquin County 2016) were reviewed as part of the recreational resources evaluation, as was the website of the San Joaquin County Parks and Recreation Department.

5.16.1.1 Regional Setting

The proposed PG&E 230 kV DCTL, PG&E Lockeford Substation, and a portion of the PG&E 60 kV power line modification project components are located primarily within unincorporated areas of northern San Joaquin County. No state, federal, or county park or trail is located within the boundaries of the PG&E portion of the project within San Joaquin County or within 0.5 mile of the project in San Joaquin County. There is one private recreational facility within 1 mile of PG&E Lockeford Substation; the Lockeford Springs Golf Course is located approximately 0.3 mile north of PG&E's Lockeford Substation. Refer to Figure 5.16-1, for a map of parks and recreation areas within 1 mile of the project in San Joaquin County.

The existing PG&E Clayton Hill Repeater Station is located approximately 2 miles from Mount Diablo State Park the 20,000-acre park in Contra Costa County (Mount Diablo State Park 2018). The PG&E station also is approximately 0.20 mile from the 8,439-acre East Bay Regional Park District Black Diamond Mines Regional Preserve. The first approximately 1.25 mile of the paved, gated access road to the PG&E Clayton Hill Repeater Station allows public pedestrian access to connect with trails leading to the nearby Black Dimond Mines park (EBRPD 2020).

5.16.1.2 Local Setting

The project does not pass through any parks within the City of Lodi. PG&E project components within the City of Lodi include the portions of the three existing PG&E 60 kV lines currently terminating at Industrial Substation that will be reconfigured after the 230 kV source is in service; the new Thurman Switching Station; an extended electrical service line for secondary station power; and approximately 1,550 feet of the western extent of the new PG&E 230 kV DCTL. LEU project components within the City of Lodi include the existing LEU Industrial Substation, new Guild Substation, and existing electrical customer service line relocated to an underground configuration. The LEU project components are within 0.5 mile of the city limits.

Eight public parks and recreation areas are found within 1 mile of the PG&E and LEU project components located within the City of Lodi: Blakely Park, Chapman Field (Armory Park), the Grape Bowl stadium, Grape Festival Grounds, Hale Park, Lawrence Park, Pixley Park, and Zupo Field.

- **Blakely Park:** Blakely Park is located 1 mile from LEU Industrial Substation to the southwest. The park facilities include a baseball diamond, basketball court, picnic areas, playground, and pool (City of Lodi 2022).
- **Chapman Field (Armory Park):** Chapman Field is a baseball diamond located 1 mile from LEU Industrial Substation to the northwest (City of Lodi 2022).
- **Grape Bowl:** The Grape Bowl is a football stadium located 1 mile northwest of LEU Industrial Substation (City of Lodi 2022).

- **Grape Festival Grounds:** The Lodi Grape Festival Grounds are located 0.8 mile from LEU Industrial Substation to the northwest. This is a 20-acre venue with 75,000 square feet of inside space, a 1,500-seat outdoor amphitheater, and RV hookups. The Grape Festival Grounds are used for the Lodi Grape Festival and Harvest Fair held every September and for the yearly Lodi Spring Wine Show (City of Lodi 2007).
- **Hale Park:** Hale Park is located 0.9 mile from LEU Industrial Substation to the northwest. The park facilities include a basketball court, playground, and picnic tables (City of Lodi 2022).
- **Lawrence Park:** Lawrence Park is located 1 mile from LEU Industrial Substation to the northwest. The park facilities include a picnic area and playground (City of Lodi 2022).
- **Pixley Park:** Pixley Park is located 0.4 mile southwest of LEU Industrial Substation and is an undeveloped park that is predominantly used for remote control airplanes (San Joaquin County Resource Conservation District 2002).
- **Zupo Field:** Zupo Field, a baseball stadium, is located 1 mile northwest of LEU Industrial Substation (City of Lodi 2022).

The parks within the City of Lodi are maintained by the City of Lodi Parks and Recreation Department. No public trail is adjacent to, or will be affected by, the PG&E and LEU project components located within the City of Lodi.

5.16.2 Regulatory Setting

No federal or state regulations related to recreation are applicable to the project.

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process. No local regulations related to recreation are applicable to the project.

The City of Lodi is a local agency and must comply with its own local plans and policies.

5.16.3 Impact Questions

The project's potential effects on recreational resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.16-1 and discussed in more detail in Section 5.16.4.

Table 5.16-1. CEQA Checklist for Recreation

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

5.16.3.1 Additional CEQA Impact Questions

The project's potential effects on recreational resources also were evaluated using the CPUC's Additional CEQA Impact Questions for Recreation in the *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments* (CPUC 2019). These additional impact questions are evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.16-2 and discussed in more detail in Section 5.16.4.

Table 5.16-2. Additional CEQA Impact Questions for Recreation

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Reduce or prevent access to a designated recreation facility or area?	☐	☐	☐	☒
b) Substantially change the character of a recreational area by reducing the scenic, biological, cultural, geologic, or other important characteristics that contribute to the value of recreational facilities or areas?	☐	☐	☐	☒
c) Damage recreational trails or facilities?	☐	☐	☐	☒

5.16.4 Potential Impact Analysis

Project impacts related to recreational resources were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.16.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on

recreation were evaluated for each of the criteria listed in Table 5.16-1 and Table 5.16-2, as discussed in Section 5.16.4.2.

5.16.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have no impact on recreational resources, so no APMs or BMPs are proposed.

5.16.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? *No Impact.*

PG&E Potential Impact Discussion

Increases in overall permanent demand for recreational facilities typically are associated with substantial increases in population, either by the construction of new residences or by the creation of a major job generator that will indirectly increase the number of residents in an area. Implementation of the project will not result in a substantial increased demand for recreational facilities or adversely affect the existing recreational resources in a permanent manner. PG&E construction workers may use local parks and recreational facilities, but a majority of the workers are anticipated to live in the area and already use these facilities; the limited number of PG&E workers from outside the area needed for construction of the PG&E portion of the project will not result in a substantial increase in demand on such facilities, causing their accelerated physical deterioration. PG&E workers who do not live in the area may use nearby park facilities during project construction, but any increase associated with such use will be negligible and temporary and will not contribute substantially to the physical deterioration of existing facilities. Therefore, no impact will occur.

LEU Potential Impact Discussion

With respect to LEU, LEU construction workers may use local parks and recreational facilities, but a majority of the LEU workers are anticipated to live in the area and already use these facilities; the limited number of LEU workers from outside the area needed for construction of the LEU portion of the project will not result in a substantial increase in demand on such facilities, causing their accelerated physical deterioration. LEU workers who do not live in the area may use nearby park facilities during project construction, but any increase associated with such use will be negligible and temporary and will not contribute substantially to the physical deterioration of existing facilities. Therefore, no impact will occur.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? *No Impact.*

PG&E Potential Impact Discussion

With respect to the PG&E portion of the project, the project will not include recreational facilities or require the construction or expansion of recreational facilities. Therefore, no impact will occur.

LEU Potential Impact Discussion

With respect to the LEU portion of the project, the project will not include recreational facilities or require the construction or expansion of recreational facilities. Therefore, no impact will occur.

5.16.4.4 Additional CEQA Impact Questions

a) Would the project reduce or prevent access to a designated recreation facility or area? *No Impact.*

PG&E Potential Impact Discussion

No public park access will be affected by construction of PG&E portion of the project, either temporarily or permanently. No public park access or area will be removed or constrained by the PG&E work. PG&E's project activities at PG&E Clayton Hill Repeater Station will be a temporary and minor increase of truck trips on a portion of existing recreational trail already used for existing facility operation and maintenance activities. Analysis of visual and noise impacts to recreational users resulting from construction of the PG&E portion of the project is provided in Section 5.1, Aesthetics, and Section 5.13, Noise, respectively. No new facilities or deterioration to the physical condition of the existing facilities will occur; therefore, the project will have no impact on these facilities.

LEU Potential Impact Discussion

With respect to LEU, construction of LEU portion of the project in the City of Lodi would not affect public park access, temporarily or permanently. No public park access or area will be removed or constrained by the LEU work. Analysis of visual and noise impacts to recreational users resulting from construction of the LEU portion of the project is provided in Section 5.1, Aesthetics, and Section 5.13, Noise, respectively. No new facilities or deterioration to the physical condition of the existing facilities will occur; therefore, the project will have no impact on these facilities.

b) Would the project substantially change the character of a recreational area by reducing the scenic, biological, cultural, geologic, or other important characteristics that contribute to the value of recreational facilities or areas? *No Impact.*

PG&E Potential Impact Discussion

With respect to the PG&E portion of the project, the project will not cross or be adjacent to Blakely Park, Chapman Field (Armory Park), the Grape Bowl stadium, Grape Festival Grounds, Hale Park, Lawrence Park, Pixley Park, Zupo Field, or Lockeford Springs Golf Course; public use of those facilities will not be affected by the project, and there will be no change in scenic, biological, cultural, geological, or other important resources. PG&E minor modification to the existing PG&E Clayton Hill Repeater Station tower will not be noticeable at the distance of the station from with Mount Diablo or Black Dimond Mines parks. No impact will occur.

LEU Potential Impact Discussion

With respect to the LEU portion of the project, the project will not cross or be adjacent to Blakely Park, Chapman Field (Armory Park), the Grape Bowl stadium, Grape Festival Grounds, Hale Park, Lawrence Park, Pixley Park, or Zupo Field. Public use of those facilities located in the City of Lodi will not be affected by the project and there will be no change in scenic, biological, cultural, geological or other important resources. No impact will occur.

c) Would the project damage recreational trails or facilities? *No Impact.*

PG&E Potential Impact Discussion

The PG&E portion of the project will not impact any recreational trails or facilities located within unincorporated San Joaquin County or within the City of Lodi; therefore, no impact will occur. PG&E Clayton Hill Repeater Station is an existing facility and the temporary and limited additional truck trips on a paved road will not damage the recreational trail use. No impact will occur.

LEU Potential Impact Discussion

The LEU portion of the project does not impact any recreational trails or facilities located in the City of Lodi; therefore, no impact will occur.

5.17 Transportation

This section describes existing conditions and potential impacts on transportation as a result of construction, operation, and maintenance of the project. The analysis concludes that, although traffic conditions will be temporarily affected by project construction, project-related impacts to transportation will be less than significant. The APMs and BMPs, as described in Section 5.17.4.2, will further reduce impacts. The project's potential effects on transportation and traffic were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.17-2 (located in Section 5.17.3) and discussed in more detail in Section 5.17.4.

5.17.1 Methodology and Environmental Setting

Traffic data and other transportation system information were obtained from maps, literature searches, and aerial photographs. Traffic volumes for regional roadways in the study area were obtained from the San Joaquin County Department of Public Works website, and average daily traffic (ADT) volumes for local roadways were obtained from the City of Lodi website (San Joaquin County Department of Public Works 2022; City of Lodi 2020). Annual average daily traffic (AADT) volumes for 2017 were obtained from the Caltrans website for surrounding state facilities (Caltrans 2017). Transit data were obtained from the City of Lodi website (City of Lodi 2020).

This section includes a description of the roadways that will be used by workers, equipment, materials, and deliveries during construction. Access routes will vary depending on the origin of the worker or truck and the type of activity that day. The project will use the existing network of paved and unpaved public and private roads to access structure work areas, pull/tension sites, and laydown areas. Figure 3.5-1 shows existing roads planned for project use. While not specifically highlighted on Figure 3.5-1, the broader network of paved roads leading to project access roads or work areas also will be used during construction. The roads that are most likely to be affected are described, with the highest-volume roadways described first.

5.17.1.1 Circulation System

The regional and local circulation system in the project area, shown on Figure 5.17-1, consists mainly of two-lane county and local roadways, with three state routes also included. The CCT Company Railroad is a regional freight railroad with at-grade crossings at various roadway locations (CCT 2022). Transit service facilities and stops are not located within 1,000 feet of the project; however, the City of Lodi has existing pedestrian networks and proposed bicycle facilities along roads within 1,000 feet of the project. Refer to Figure 5.17-2.

5.17.1.2 Existing Roadways and Circulation

Three state routes are included within the project area: SR 99, SR 12, and SR 88. City -maintained roads include South Guild Avenue, Beckman Road, and a portion of East Kettleman Lane in the City of Lodi. County roads include East Sargent Road and a portion of East Kettleman Lane. These roadways and their circulation patterns are described in the following sections.

SR 99. This state highway is the backbone of the regional transportation system in the project vicinity near the western termination of the proposed PG&E 230 kV transmission line and new and modified stations and line reconfiguration near the existing LEU Industrial Substation. SR 99 is a north-south freeway that connects Lodi with Sacramento to the north and Stockton to the south. This roadway will be used to access the project area during construction, operation, and maintenance. SR 99 also is known as Highway 99, Golden State Highway, and Purple Heart Veterans Highway. In the project vicinity, SR 99 is a four-lane freeway with two travel lanes in each direction. SR 99 is designated a route of regional significance.

SR 12. This state highway also is called East Victor Drive within the project area. It is an east-west two-lane arterial road. Between Interstate 80 and SR 88, which includes the project area, SR 12 is part of the National Highway System, a network of highways considered by the FHWA to be essential to defense and the economy (FHWA 2023). The existing PG&E Industrial Tap 60 kV and CCT Railroad cross SR 12 at approximately 0.25 mile east of North Guild Avenue. PG&E Industrial Tap connects with the existing PG&E Lockeford-Lodi No. 2 60 kV line on the north side of SR 12 immediately west of the railroad tracks. This roadway will be used to access the western end of the project work in northern San Joaquin County within the City of Lodi during construction, operation, and maintenance. SR 12 is designated a route of regional significance.

SR 88. This state highway, also known as the Carson Pass Highway, is an east-west two-lane arterial road. SR 88 through the project area is part of the National Highway System (FHWA 2023). It will be used to access the proposed PG&E 230 kV double-circuit line and PG&E Lockeford Substation during construction, operation, and maintenance. SR 88 is designated a route of regional significance.

East Kettleman Lane. This road is an east-west two-lane arterial east of Pixley Parkway and a four-lane arterial west of Pixley Parkway. West of SR 99, East Kettleman Lane is part of SR 12. East of SR 99, East Kettleman Lane is maintained by the City of Lodi within the city limits, just west of Wells Lane. From the city limits to the east, East Kettleman Lane is maintained by San Joaquin County. The CCT Railroad crosses East Kettleman Lane approximately 0.25 mile east of Wells Lane. East Kettleman Lane, from SR 99 to Beckman Road, is a Surface Transportation Assistance Act (STAA) Terminal Access Route. STAA establishes a national network of roadways that large trucks within federal width and length limits can use, and it prohibits any state from denying reasonable access to the national network (Caltrans 2022). This roadway will be used to access the project area during construction and operation.

Beckman Road. The roadway is a north-south two-lane collector extending from East Victor Road to East Kettleman Lane. There is a dedicated bicycle lane on the eastern side of Beckman Road that is more than 1,000 feet from the project. Sidewalks run parallel to the roadway on either side from Auto Center Drive to East Victor Drive. From East Kettleman Lane to Industrial Way, Beckman Road is an STAA Terminal Access Route. Beckman Road is maintained by the City of Lodi. This roadway will be used to access the project area during construction and operation.

North Guild / South Guild Avenue. This two-lane local road runs north-south. There are sidewalks along the eastern and western sides of the roadway. The CCT Railroad crosses South Guild Avenue approximately 100 feet south of East Lodi Avenue. From Industrial Way to East Pine Street, South Guild Avenue is an STAA Terminal Access Route. South Guild Avenue is maintained by the City of Lodi. North Guild Avenue begins north of East Pine Street. This roadway will be used to access the project area during construction and operation. Work will occur within the roadway during the extension of the existing PG&E service line on South Guild Avenue to PG&E's new Thurman Switching Station.

East Sargent Road. East Sargent Road running from the CCT Railroad tracks to Tecklenburg Road is an east-west two-lane local road. East Sargent Road is maintained by San Joaquin County. This roadway will be used to access the project area during construction and operation.

East Pine Street. East Pine Street is an east-west two-lane collector. There are sidewalks along the northern and southern sides of the roadway west of South Guild Avenue. The CCT Railroad crosses East Pine Street approximately 1,300 feet east of South Guild Avenue. East Pine Street is maintained by the City of Lodi west of the CCT Railroad. East of the CCT Railroad, East Pine Street is maintained by San Joaquin County. East Pine Street is an STAA Terminal Access Route. This roadway will be used to access the project area during construction and operation.

Table 5.17-1 provides roadway conditions for the main existing roadways that will be used to access the project, and the distance from the roadway to the closest project component.

Table 5.17-1. Roadway Existing Conditions

Roadway Segment		Jurisdiction	Number of Lanes	ADT	AADT	Closest Project Component	Distance from Closest Project Component to Roadway Segment (ft)
SR 99	SR 12 West to SR 12 East	Caltrans	4	n/a	85,000	LEU Industrial Substation	1,400
SR 12/ E Victor Rd	East of S Cluff Av	Caltrans	2	n/a	10,300	PG&E Lodi-Industrial pole 22	50
SR 88	North of E Harney Ln	Caltrans	2	n/a	10,900	PG&E Lockeford-Thurman W12	30
E Kettleman Ln	SR 99 to City Limits	City of Lodi	2	8,380	n/a	PG&E Lockeford-Thurman W36	3,350
	City Limits to SR 88	San Joaquin County	2	6,030	n/a	PG&E Lockeford-Thurman W35	420
	SR 88 to Jack Tone Rd	San Joaquin County	2	1,284	n/a	PG&E Lockeford-Thurman W4	30
	N Jack Tone Rd to N Tully Rd	San Joaquin County	2	477	n/a	PG&E Bellota-Brighton Loop E14 to E8	830
Beckman Rd	SR 12 East to E Pine St	City of Lodi	2	5,740	n/a	LEU Industrial Substation	1,910
	E Pine St to E Lodi Av	City of Lodi	2	3,770	n/a	LEU Industrial Substation	1,350
	E Lodi Ave to E Kettleman Ln	City of Lodi	2	7,920	n/a	PG&E Thurman Switching Station	1,320
N Guild/S Guild Ave	East SR 12 to E Lodi Av	City of Lodi	2	3,240	n/a	PG&E 12 kV distribution line pole	66
S Guild Ave	E Lodi Ave to Auto Center Dr	City of Lodi	2	2,340	n/a	PG&E Lockeford-Thurman W47 to W49	15
E Sargent Rd	CCT to Tecklenburg Rd	San Joaquin County	2	37	n/a	PG&E Lockeford-Industrial pole 10	15
E Pine St	East of Guild Av	City of Lodi	2	1,490	n/a	PG&E Lodi-Industrial pole 18	15

Sources: State of California 2019; San Joaquin County 2021; City of Lodi 2020

Notes:

ft = foot (feet)
n/a = not applicable

5.17.1.3 Transit and Rail Services

Lodi Transit Center Route 5 is located within 0.5 mile from the project along with two local bus stops, as shown on Figure 5.17-2. Route 5 runs once per hour, between approximately 6:30 a.m. and 7:30 p.m. on weekdays and approximately 6:30 a.m. and 6:30 p.m. on weekends (City of Lodi 2022). The City of Lodi operates and maintains five local bus routes that operate primarily west of SR 99. Lodi Transit Center has several transit and rail service partner agencies with regular route stops in Lodi. San Joaquin Regional Transit District (SJRTD) serves the City of Stockton and its surrounding areas. The SJRTD provides bus service between Stockton and Lodi on two routes, Route 93 and Route 163 (SJRTD 2023). Route 93, including the route and bus stops, is located outside the half-mile radius around the project. Route 163 runs on SR 99 between Stockton and Sacramento, with one stop in Lodi immediately southwest of the intersection of SR 12 and SR 99, just outside the half-mile radius around the project. Route 163 runs on weekdays, twice during peak a.m. traffic and twice during peak p.m. traffic.

The California High-Speed Rail is currently under Phase 1 construction in the Central Valley. Phase 2 will extend the system to Sacramento and San Diego. The Merced-to-Sacramento project section of Phase 2 is approximately 115 miles long and includes four proposed station locations, including Merced, Modesto, Stockton, and Sacramento. The Merced-to-Sacramento draft route map published in July 2018 appears to route the alignment to the east of the City of Lodi. The high-speed rail route appears to cross the proposed new PG&E 230 kV line potentially near the current north-south alignment of the existing freight rail services east of the City of Lodi (California High-Speed Rail Authority 2021).

Freight rail services are mapped within 5 miles of the project on Figure 5.17-1. The City of Lodi is served by two national freight rail lines: the UPRR and the BNSF, as well as a regional freight rail line, CCT Railroad. BNSF has handling carrier and trackage rights in the area with UPRR and CCT (BNSF 2021). CCT provides switching services for UPRR and BNSF at the Port of Stockton and the Central Valley Branch—Lodi, which provides switching services for six Stockton- and Lodi-based customers (CCT 2022).

Reconfiguration of the three existing PG&E 60 kV lines terminating at LEU Industrial Substation will include removing PG&E Lockeford-Industrial pole 1 through pole 9 starting at the span at pole 10 at the eastern end of East Sargent Road into LEU Industrial Substation, as shown on Figure 5.17-3. The existing LEU 12 kV feeder line underbuild on PG&E Lockeford-Industrial, which will be relocated to an underground configuration immediately south of the new PG&E 230 kV line alignment, is parallel to the CCT line spur. The proposed PG&E 230 kV transmission line parallels the CCT rail line for approximately 1.25 miles at a distance of approximately 600 feet when immediately east of Lodi's city limits. When the proposed PG&E transmission line turns west into the City of Lodi city limits, it crosses both the CCT tracks that run north-south and CCT industrial tracks that turn west for approximately 1 mile and parallel the south side of East Lodi Avenue. The extension of PG&E's 12 kV service line on South Guild Avenue to provide secondary station service to PG&E Thurman Switching Station will cross under the CCT spur line where the tracks cross South Guild Avenue. The three PG&E 60 kV lines connecting LEU Industrial Substation each have an existing span across a CCT line and parallel one or more of the CCT lines near or within the City of Lodi city limits. Additional reconfiguration of PG&E 60 kV lines will include removing the spans of PG&E Lodi-Industrial and PG&E Industrial Tap that cross CCT rail lines when heading north from LEU Industrial Substation toward East Lodi Avenue. A new span between PG&E Lodi-Industrial pole 2 and PG&E Industrial Tap pole 2 will be located along East Lodi Avenue and will be parallel to the CCT rail lines immediately south. A new span will connect PG&E Industrial Tap pole 13 and PG&E Lockeford-Industrial pole 10 across CCT rail lines at the western end of East Sargent Road. The 60 kV portion of PG&E Industrial Tap pole 14 to pole 22 that parallels CCT to the west between East Sargent Road and SR 12 will be removed. PG&E 60 kV Industrial Tap includes existing PG&E distribution underbuild. After the 60 kV portion of PG&E Industrial Tap is removed, the existing PG&E distribution will remain unchanged as part of the project. A new horizontal guy span will be installed in the PG&E Industrial Tap alignment across SR 12 between PG&E Industrial Tap pole 22 and an existing PG&E distribution pole on the south side of SR 12.

5.17.1.4 Bicycle Facilities

Figure 5.17-2 illustrates existing and proposed bicycle lanes, routes, and paths within approximately 1,000 feet of the project. San Joaquin County has no designated bicycle facilities located within approximately 1,000 feet of the project. The *City of Lodi Bikeway Master Plan* describes the existing and proposed bikeways, or bicycle facilities, in the City of Lodi. Class I bikeways are defined as paved bike paths or multi-use trails completely separated from any street or highway. Class II bikeways are defined as on-street routes intended to provide continuity to bikeway systems. A Class I bikeway is proposed along East Victor Road (SR 12) within the project vicinity. Three Class II bikeways are proposed in the project vicinity, along South Guild Avenue, west from South Guild Avenue on East Lodi Avenue, and along East Victor Road (SR 12). No existing bikeways are located within approximately 1,000 feet of the project.

5.17.1.5 Pedestrian Facilities

The City of Lodi maintains sidewalks along city streets in the project area. When outside the City of Lodi city limits, no sidewalks are present within the project area. Within approximately 1,000 feet of the project, city roads in the industrial and commercial land use area have sidewalks on both sides of the road except for the south side of East Lodi Avenue along the CCT spur line west from South Guild Avenue, East Pine Street, and the north side of East Victor Road (SR 12).

5.17.1.6 Vehicle Miles Traveled

Per CEQA Guidelines, Section 15064.3, VMT is the "amount and distance of automobile travel attributable to a project" and "is the most appropriate measure of transportation impacts." In San Joaquin County, the residential baseline VMT is 26.6 miles per capita and the work baseline VMT is 19.1 miles per employee (San Joaquin County 2020). The total daily average VMT on rural and urbanized public roadways in San Joaquin County is 17,598,440 miles (Caltrans 2021).

5.17.2 Regulatory Setting

5.17.2.1 Federal

Americans with Disabilities Act Standards for Accessible Design

The proposed project will involve reconstructing sidewalks and trails at station and line locations and will be required to comply with Americans with Disabilities Act (ADA) standards. The Department of Justice enacted the ADA in 1990, which adopted enforceable accessibility standards for facility design. The revised ADA standards adopted in 2010 set minimum requirements for newly designed and constructed or altered state and local government facilities, public accommodations, and commercial facilities. State and local government facilities must adhere to the following requirements of the 2010 standards:

- Title II regulations at 28 CFR 35.151
- 2004 ADA Accessibility Guidelines at 36 CFR 1191, Appendices B and D

5.17.2.2 State

Caltrans owns the rights-of-way (ROWs) for state facilities, including any on- and off-ramps that provide access to the project area. Any project-related work within state ROWs requires an encroachment permit from Caltrans.

Caltrans also is the administering agency for regulations related to traffic safety, including licensing drivers, limiting weights and loads, transporting hazardous and combustible materials, and safely operating vehicles.

Senate Bill 743

In December 2018, the California Natural Resources Agency updated the CEQA Guidelines to incorporate SB 743. As a result, CEQA Guidelines, Section 15064.3, shifts the focus of a CEQA analysis of transportation impacts away from quantification of automobile delay to focus on VMT to determine the significance. VMT refers to the amount and distance of automobile travel attributable to a project. VMT is a measure of the total number of miles driven to or from a development, sometimes expressed as an average per trip or per person. Subdivision (b)(3), Qualitative Analysis, recognizes that lead agencies may not be able to quantitatively estimate VMT for every project type and indicates that a qualitative analysis of construction traffic may be appropriate. The project is not a traditional land use project that would generate VMT on a regular basis. Additionally, San Joaquin County has not yet adopted a County-specific VMT threshold of significance.

California Vehicle Code

Section 21400 of the California Vehicle Code directs the California Department of Transportation to adopt rules and regulations prescribing uniform standards and specifications for all official traffic control devices placed pursuant to the vehicle code. The *California Temporary Traffic Control Handbook* provides the basic standards for the safe movement of traffic, including motorists, bicyclists, and pedestrians, on streets, highways, and bikeways, during highway construction or utility work in accordance with Section 21400 of the California Vehicle Code. The *California Manual on Uniform Traffic Control Devices* provides uniform standards and specifications for all official traffic control devices in California, pursuant to the provisions of Section 21400 of the California Vehicle Code.

5.17.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

San Joaquin County

The *San Joaquin County General Plan*, Transportation and Mobility Element, focuses on enhancing the connections between cities and communities and creating an integrated multimodal system. San Joaquin County has guiding principles to promote regional and interstate transit connections that reduce vehicle trips, enhance goods movement infrastructure, and create safe connections between cities and unincorporated communities (San Joaquin County 2016).

The *San Joaquin County General Plan* identifies Level of Service (LOS) standards consistent with the SJCOG Congestion Management Program (CMP) for state highways and designated county roadways and intersections of regional significance (SJCOG 2021). LOS is a mechanism used to determine how well a transportation facility is operating from a traveler's perspective. Typically, six levels of service are defined and each is assigned a letter designation from A to F, with LOS A representing the best operating conditions and LOS F the worst. Per the CMP, all designated CMP roadways and intersections will operate at LOS D or better. LOS standards for non-CMP intersections and roadways classified as minor arterials, or a higher classification, indicate LOS D or better. All other non-CMP intersections and roadways will operate at LOS C or better (San Joaquin County 2016).

City of Lodi

The *City of Lodi General Plan* includes goals and policies to expand multimodal transportation choices, increase interconnectivity, enhance bicycle and pedestrian facilities, and promote an integrated transit

system (City of Lodi 2010). The City of Lodi supports alternative transportation through the *City of Lodi Bikeway Master Plan* (City of Lodi 2012*)*.

The *City of Lodi General Plan* identifies LOS compliance with the SJCOG CMP for routes of regional significance. For purposes of design review and environmental assessment, the City of Lodi employs a standard of LOS E during peak hour conditions for all streets in the city's jurisdiction (City of Lodi 2010).

5.17.3 Impact Questions

The project's potential effects on transportation were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.17-2 and discussed in more detail in Section 5.17.4.

Table 5.17-2. CEQA Checklist for Transportation

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☒	☐

5.17.3.1 Additional CEQA Impact Questions

The project's potential effects on transportation also were evaluated using the CPUC's Additional CEQA Impact Questions for Transportation in the *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments* (CPUC 2019). These additional impact questions are evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.17-3 and discussed in more detail in Section 5.17.4.

Table 5.17-3. Additional CEQA Impact Questions for Transportation

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Create potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations?	☐	☐	☒	☐
b) Interfere with walking or bicycling accessibility?	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
c) Substantially delay public transit?	☐	☐	☐	☒

5.17.4 Potential Impact Analysis

The following subsections describe significance criteria for transportation impacts derived from Appendix G of the CEQA Guidelines, provide APMs and BMPs, and assess potential project-related construction, operation, and maintenance impacts on transportation. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.17.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "… a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. In accordance with Appendix G of the CEQA Guidelines, the potential significance of project impacts on transportation were evaluated for each of the criteria listed in Table 5.17-2 and Table 5.17-3, as discussed in Section 5.17.4.2.

SB 743, which requires consideration of VMT, is discussed in Section 5.17.2.2. Because the project will generate only temporary construction-related traffic, a qualitative analysis of transportation impacts related to VMT is used in this Proponent's Environmental Assessment.

In Chapter 3, Project Description, Table 3.6-1 provides the number of workers and vehicles for each stage of construction and the duration of use for each vehicle. VMT was calculated based on the average daily miles for each vehicle and a daily 30-mile round trip assumption per worker. The O&M for the new LEU Guild Substation, PG&E Thurman Switching Station, and PG&E 230 kV transmission lines will be controlled remotely. Maintenance trips for LEU Guild Substation typically will be planned in conjunction with LEU Industrial Substation's existing maintenance trips; however, an additional four hours of monthly truck use are estimated to occur. At PG&E Thurman Switching Station and expanded PG&E Lockeford Substation, maintenance trips involve single-day monthly visual inspections and detailed annual and 5-year inspections. Station component or system inspections may be scheduled every 2 to 8 years for a given station component or system. Conservatively, yearly inspections are estimated at up to 24 workdays annually to accommodate potential inspections and maintenance that may occur in a given year.

No additional O&M staff are required by either PG&E or LEU. A minimal additional VMT is anticipated for the new or modified LEU portion of the project, or no additional VMT for the PG&E existing or modified substations and lines. A relatively small amount of additional O&M VMT will be necessary for PG&E to complete O&M activities at the new PG&E Thurman Switching Station, potentially the expanded 230 kV portion of PG&E Lockeford Substation, and new PG&E 230 kV lines. Additional VMT for monthly PG&E visual station inspections is estimated at approximately 50 miles for each visit. Annual inspections are estimated to occur over 24 workdays at 50 miles each day. If insulator washing is required, an annual estimate is again approximately 50 miles per day for up to approximately 24 workdays. Other cyclic station inspection and maintenance trips (occurring potentially every 2-8 years) are estimated at approximately 50 miles for 12 workdays. PG&E 230 kV transmission line annual inspections typically begin 5 years after the lines are placed into service. As described in Section 5.17.4.3, inspections of overhead PG&E transmission lines typically commence after 5 years of operation and are conducted annually in accordance with PG&E's *Transmission Owner Maintenance Practices for Electrical Overhead Transmission Lines*. Annual PG&E transmission line inspection and maintenance will have between

approximately 1,925 VMT and approximately 3,125 VMT depending on whether insulator washing is required.

In addition to VMT, capacity utilization was calculated to assess the potential for any effects on traffic operations, specifically on roadways affected by construction-related activities. Capacity was determined based on roadway type, area type, and speed limit and converted to daily capacity based on the number of lanes and an assumed k-factor (percent of daily traffic in the peak hour) of 10%. The calculated capacity was compared to existing ADT counts, obtained from Caltrans and the City of Lodi, to determine the existing capacity utilization. The existing capacity utilization was compared with capacity utilization including construction traffic. The results are presented in Section 5.17.4.3.

5.17.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following transportation APMs and BMPs:

APM TRA-1: PG&E Temporary Traffic Controls. PG&E will obtain any necessary transportation and encroachment permits from Caltrans and the local jurisdictions, as required, including those related to state route crossings and the transport of oversized loads and certain materials, and will comply with permit requirements designed to prevent excessive congestion or traffic hazards during construction. PG&E will develop traffic control plans to detail road and lane closure or width reduction or traffic diversions as required by the encroachment permits. Construction activities that are in, along, or cross local roadways will follow best practices and local jurisdictional encroachment permit requirements—such as traffic controls in the form of signs, cones, and flaggers—to minimize impacts on traffic and transportation in the project area. PG&E will provide the CPUC with copies of permits obtained prior to construction activity in a given jurisdiction or location. If required for obtaining a local encroachment permit, PG&E will establish a Traffic Management Plan (TMP) to address haul routes, timing of heavy equipment and building material deliveries, potential street or lane closures, signing, lighting, and traffic control device placement. When working on state highways, PG&E will ensure traffic control operations are compliant with both the *California Temporary Traffic Control Handbook*, 2018 edition, and the *California Manual on Uniform Traffic Control Devices*, 2014 edition.

BMP TRA-1: LEU Temporary Traffic Controls. LEU will obtain any necessary transportation and encroachment permits from Caltrans and the local jurisdictions, as required, including those related to the transport of oversized loads and certain materials, and will comply with permit requirements designed to prevent excessive congestion or traffic hazards during construction. LEU will develop traffic control plans to detail road and lane closure or width reduction or traffic diversions as required by the encroachment permits. Construction activities that are in, along, or cross local roadways will follow best practices and local jurisdictional encroachment permit requirements—such as traffic controls in the form of signs, cones, and flaggers—to minimize impacts on traffic and transportation in the project area. If required for obtaining a local encroachment permit, LEU will establish a TMP to address haul routes, timing of heavy equipment and building material deliveries, potential street or lane closures, signing, lighting, and traffic control device placement.

APM TRA-2: PG&E Repair of Damaged Transportation Infrastructure. As part of the final construction activities of the project, PG&E will restore all removed curbs, gutters, and sidewalks, and repave all removed or damaged paved surfaces associated with PG&E construction activities.

BMP TRA-2: LEU Repair of Damaged Transportation Infrastructure. As part of the final construction activities of the project, LEU will restore all removed curbs, gutters, and sidewalks, and repave all removed or damaged paved surfaces associated with LEU construction activities.

5.17.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in

Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

During construction, vehicle trips will be generated by construction workers, equipment deliveries, and material delivery trucks. Personnel generally will drive to the worksite at the beginning of the day and leave at the end of the day, with few personnel traveling to and from the worksite throughout the day. Construction-related traffic will vary according to the construction phase.

Overall, peak workforce is estimated to be up to approximately 66 workers per day during the peak months of construction (2027 Q2), with work activities potentially occurring at PG&E Lockeford Substation, PG&E new 230 kV line structure locations, PG&E Thurman Switching Station, PG&E 12 kV service line extension, PG&E Clayton Hill Repeater Station, LEU Industrial Substation, and LEU Guild Substation. On a typical workday during 2027, as many as approximately 6 to 8 crews will be performing project activities. A typical daily workforce during the peak period of construction is expected to consist of approximately 3 to 18 workers per project activities. Approximately 22% of the workforce during the peak period is expected to be supporting LEU's portion of the project and approximately 78% is expected to be supporting PG&E's portion of the project. During PG&E transmission line work, crews typically will be working at adjacent or nearby poles. During PG&E transmission conductor stringing activities, approximately 18 construction crew members may be in the field, working at approximately two pull-and-tension sites, usually approximately 3.5 miles apart. On a typical peak workday with civil work complete, 4 to 10 construction crew members will be working at a station. Work at PG&E remote-end stations will have approximately two workers and, conservatively, the workers are included in the peak months total. Typically, approximately one or two truck drivers and approximately 3 to 4 inspectors and monitors are estimated as a daily average across all project components. Different phases of the construction process will require varying numbers of construction personnel.

It is estimated that construction activities will result in up to approximately 524 large truck (line trucks, semi-trucks, concrete trucks, flatbeds, and cranes) trips per day and up to approximately 222 transport vehicle (crew-cab trucks, pickups, and other light-duty vehicles) trips per day. Vehicle trips will not occur at the same time, since they include both vehicles arriving at and departing the site at the beginning and end of the workday, and delivery and water trucks during the course of the workday. Furthermore, not all trips will affect the same roads, as crew members will be working at multiple locations.

The anticipated temporary and short-term construction-related traffic impacts will be related to truck routes and project area access routes. Section 3.6 describes the typical construction crew size and required construction equipment during each phase of project construction. Although construction activities may generate slight increases in traffic on SRs and local roads, the effects will be minimal, short term, and periodic.

The maximum number of daily vehicle trips associated with construction, described in Section 5.17.4.3, was compared to the available capacity of the roadways to gain an understanding of the proposed project's potential impacts. The analysis conservatively assumed that all trips generated by the project's

construction would use all roadway segments in the area. The results of this analysis are presented in Table 5.17-4.

Lodi Transit stops are located within approximately 0.5 mile of the project. Construction activities or O&M activities are not expected to impact operation of the Lodi Transit routes across SR 99.

Detailed PG&E transmission line inspections and routine patrols will be performed in accordance with PG&E's Transmission Owner Maintenance Practices for Electrical Overhead Transmission Lines, in the latest revision, as filed with the California Independent System Operator. Typically, there are no O&M inspections conducted on a new PG&E transmission line for the first 5 years following the in-service date. After 5 years, PG&E inspections typically are performed annually, by either vehicle or helicopter. Additionally, routine maintenance will be performed to correct conditions identified during inspections. As such, additional traffic from operational activities would be minimal and infrequent. LEU inspections will not change in frequency or resources required when the project is built.

Table 5.17-4. Estimated Roadway Capacity Utilization

Roadway Segment		Capacity[a] (vphpl)	Daily Capacity[b] (vpd)	Existing		Existing with Project	
				ADT	Capacity Utilization (%)	ADT	Capacity Utilization (%)
SR 99	SR 12 West to SR 12 East	2,000	88,889	85,000	96	85,792	97
SR 12/ E Victor Rd	S Cluff Ave	920	18,400	10,300	56	11,092	60
SR 88	E Harney Ln	850	17,000	10,900	64	11,692	69
E Kettleman Ln	SR 99 to Pixley Pkwy	920	36,800	8,380	23	9,172	25
	Pixley Pkwy to SR 88	1,500	30,000	6,030	20	6,822	23
	SR 88 to N Jack Tone Rd	1,500	30,000	1,284	4	2,076	7
	N Jack Tone Rd to N Tully Rd	1,500	30,000	477	2	1,269	4
Beckman Rd	East SR 12 to E Pine St	920	18,400	5,740	31	6,532	36
	E Pine St to E Lodi Ave	920	18,400	3,770	20	4,562	25
	E Lodi Ave to E Kettleman Ln	920	18,400	7,920	43	8,712	48
S Guild Ave	East SR 12 to E Lodi Ave	920	18,400	3,240	18	4,032	22
	E Lodi Ave to Auto Center Dr	920	18,400	2,340	13	3,132	17
E Pine St	East of Guild Ave	920	18,400	1,490	8	2,282	13

Sources: State of California 2019; City of Lodi 2020

[a] Capacity, vehicles per hour per lane (vphpl), follows Florida Department of Transportation 2020

[b] Daily capacity, vehicles per day (vpd), is calculated using an assumed k-factor of 10%

a) Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

Most construction activities will occur within PG&E's new (acquired as part of the proposed project) or existing property, franchise, or ROW. Work within public ROW will be limited to construction activities in, along, or crossing roadways and sidewalks within the City of Lodi. Guard structures will be installed where construction activities on PG&E lines will cross over major roads and railroad lines. The following roadways would be spanned by the new PG&E 230 kV transmission line segment: SR 88, South Guild Avenue, East Kettleman Lane, East Realty Road, North Curry Avenue, Vintage Road, North Alpine Road, East Locust Tree Road, North Jack Tone Road, North Tully Road, North Jory Road, and North Linn Road. Reconfiguration of the PG&E 60 kV lines and any underbuild will require span work along East Lodi Avenue and East Sargent Road and across South Guild Avenue, East Pine Street, and SR 12 (East Victor Road). Extension of the secondary service into PG&E Thurman Switching Station will occur within a lane of South Guild Avenue and cross the CCT rail tracks south of East Lodi Avenue. Temporary road closures (rolling stops) are anticipated when certain sections of the PG&E line are being reconductored at the road overhead crossings. Road closures on private and county roads are not expected to exceed 5 minutes in duration. For the SR 88 and SR 12 crossings, CHP and Caltrans will be contacted to organize 5- to 10-minute rolling stops. The new PG&E 230 kV line and reconfiguration of PG&E's existing 60 kV lines will require work across or along CCT rail line locations in or near the City of Lodi. The extension of PG&E's existing 12 kV line south within South Guild Avenue is expected to be installed using a trenchless method and cross under the CCT tracks. Any necessary encroachment permits will be obtained from the affected agencies or entities. Temporary lane closures also will be required at various locations for public safety. Removal of the western portion of PG&E's Lockeford-Industrial Line into LEU Industrial Substation, the LEU 12 kV underbuild, and third-party communication lines underbuild are partially located on private property or span driveways where large trucks may be accessing the LEU customer warehouse. In addition to traffic control and other safety measures, PG&E would provide, as part of the TMP, notification to property owners and businesses in advance of work. In addition, where the installation of guard structures is required, APM TRA-1, which requires that traffic controls and other traffic safety measures be in place to maintain proper traffic flow, will further reduce any impacts.

As shown in Table 5.17-4, project construction traffic would increase the capacity utilization of affected roadways by approximately 5% or less. The highest rate of capacity utilization would occur on SR 99, which is the highest rate of capacity utilization, approximately 96%, for these roadways under existing conditions. With the addition of the construction vehicle trips associated with the PG&E portion of the project (approximately 579 PG&E trips of approximately 828 total project trips), the capacity utilization would be approximately 97% for SR 99. PG&E will use traffic controls and other traffic safety measures to maintain proper traffic flow during temporary construction activities, further minimizing any effects on traffic. Implementation of APM TRA-2 will restore all removed or damaged curbs, gutters, sidewalks, and paved surfaces, as necessary.

The vehicle trips generated by the proposed project during operation would be limited to PG&E personnel conducting periodic inspections and as-needed maintenance/repair activities. Proposed PG&E O&M activities would not be expected to require lane or road closures or operation of heavy equipment within public roadways; however, if these activities were to be required (for example, because of a significant repair of a line structure or conductor adjacent to a roadway), traffic control would be implemented and adherence to requirements in any encroachment permits would reduce traffic impact.

Project construction will not conflict with any policies, plans, or programs that support alternative transportation (for example, bus turnouts or bicycle racks). No transit facilities or bike facilities exist within approximately 1,000 feet of PG&E project components; however, there are proposed bike lanes on South Guild Avenue, East Lodi Avenue and East Victor Road (SR 12), and a proposed bike path along Lockeford Street, located within approximately 1,000 feet of the project. Lacking proper protocols, temporary lane or road closures required for crossing-structure installation could result in substantial delays and potential

safety hazards for local pedestrians and bicycles. Because none of the existing bikeways or bicycle facilities in the area are located within or directly adjacent to the proposed project work areas, no impact will occur. The sidewalks along South Guild Avenue from approximately 200 feet north of East Lodi Avenue to East Thurman Road could be temporarily affected by project construction to modify or remove existing PG&E lines, install the new PG&E transmission line, and install the driveways for vehicle access into the new switching station. Sidewalk and lane closures may detour pedestrians temporarily, but impacts would be short term and temporary. An alternate pedestrian route via Beckman Road would result in an approximately 1-mile detour. The proposed project would have no lasting impact on demand for alternative transportation or on alternative transportation facilities.

PG&E will obtain all necessary road permits, including encroachment permits, prior to construction and would comply with all the applicable conditions of approval. One-way traffic controls and short-term road closures will be implemented to allow for certain construction activities and to maintain public safety. PG&E will apply for an encroachment permit that will include a Traffic Control Plan from the City of Lodi. If required by the City of Lodi, a TMP would establish methods for minimizing construction effects on transit service and bicycle facilities.

Construction and O&M impacts will be less than significant. The APMs, BMPs, and TMP, if required, would further reduce impacts during construction.

LEU Potential Impact Discussion

Most construction activities will occur within LEU's existing property or ROW. Work within public ROW will be limited to construction activities in, along, or crossing roadways and sidewalks within the City of Lodi. Any necessary encroachment permits will be obtained from the affected agencies or entities. Temporary lane closures also will be required at various locations for public safety. In addition, BMP TRA-1, which requires that traffic controls and other traffic safety measures be in place to maintain proper traffic flow, will further reduce any impacts.

The anticipated temporary and short-term construction-related traffic impacts will be related to truck routes and project area access routes. Section 3.6 describes the typical construction crew size and required construction equipment during each phase of project construction. Although construction activities may generate slight increases in traffic on SRs and local roads, the effects will be minimal, short term, and periodic.

The maximum number of daily vehicle trips associated with construction, described in Section 5.17.4.3, was compared to the available capacity of the roadways to gain an understanding of the proposed project's potential impacts. The analysis conservatively assumed that all trips generated by the project's construction would use all roadway segments in the area. The results of this analysis are presented in Table 5.17-4.

As shown in Table 5.17-4, project construction traffic would increase the capacity utilization of affected roadways by approximately 5% or less. The highest rate of capacity utilization would occur on SR 99, which is the highest rate of capacity utilization, approximately 96%, for these roadways under existing conditions. With the addition of the construction vehicle trips associated with the LEU portion of the project (approximately 249 LEU trips of approximately 828 total project trips), the capacity utilization would be approximately 97% for SR 99. LEU will use traffic controls and other traffic safety measures to maintain proper traffic flow during temporary construction activities, further minimizing any effects on traffic. Implementation of BMP TRA-2 will restore all removed or damaged curbs, gutters, sidewalks, and paved surfaces, as necessary.

The vehicle trips generated by the proposed project during operation would be limited to LEU personnel conducting periodic inspections and as-needed maintenance/repair activities. Proposed LEU O&M activities would not be expected to require lane or road closures or operation of heavy equipment within public roadways; however, if these activities were to be required, traffic control would be implemented and adherence to requirements in any encroachment permits would reduce traffic impact.

Project construction will not conflict with any policies, plans, or programs that support alternative transportation (for example, bus turnouts or bicycle racks). No transit facilities or bike facilities exist within approximately 1,000 feet of LEU project components; however, a proposed bikeway is located within approximately 1,000 feet of the project along South Guild Avenue, and along East Lodi Avenue. The sidewalks along South Guild Avenue from approximately 200 feet north of East Lodi Avenue to East Thurman Road could be temporarily affected by project construction to modify or remove existing LEU underbuild and distribution on PG&E lines and install the driveways for vehicle access into the new LEU substation. Sidewalk and lane closures may detour pedestrians temporarily, but impacts would be short term and temporary. An alternate pedestrian route via Beckman Road would result in an approximately 1-mile detour. The proposed project would have no lasting impact on demand for alternative transportation or on alternative transportation facilities.

LEU will obtain all necessary road permits, including encroachment permits, prior to construction and would comply with all the applicable conditions of approval. One-way traffic controls and short-term road closures will be implemented to allow for certain construction activities and to maintain public safety. LEU will apply for an encroachment permit from the City of Lodi. If required by the City of Lodi, a TMP would establish methods for minimizing construction effects on transit service and bicycle facilities.

Construction and O&M impacts will be less than significant. The APMs, BMPs, and TMP, if required, would further reduce impacts during construction.

b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The project does not propose new housing, businesses, or other land use changes that will induce population growth in the area. Construction of the PG&E project components could result in a temporary increase in local traffic as a result of PG&E construction-related workforce traffic and material deliveries and construction activities occurring within the public ROW. The primary offsite impacts from the movement of construction trucks will include short-term and intermittent effects on traffic operations because of slower movements and larger turning radii of the trucks compared to passenger vehicles. The VMT for the proposed project construction-related vehicle trips would depend on several factors, including the origin of construction worker commute trips (for example, distance from their homes or temporary lodging to the construction site), origin of materials and equipment deliveries to the construction site, and distance to landfills or other disposal sites from the construction site. While these factors are not all precisely known at this time, the relatively low overall number of vehicle trips generated during the proposed project construction would equate to a relatively low total VMT. Additionally, the construction vehicle trips and associated VMT would be temporary, minimizing the potential long-term impact of the proposed project in terms of greenhouse gas emissions. When construction is completed, construction-related traffic will cease and VMT levels will return to pre-existing conditions with minimal and infrequent trips generated, as described in Section 5.17.4.3. The project will not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b). Therefore, impacts will be less than significant.

LEU Potential Impact Discussion

The project does not propose new housing, businesses, or other land use changes that will induce population growth in the area. Construction of the LEU project components could result in a temporary increase in local traffic as a result of LEU construction-related workforce traffic and material deliveries and construction activities occurring within the public ROW. The primary offsite impacts from the movement of construction trucks will include short-term and intermittent effects on traffic operations because of slower movements and larger turning radii of the trucks compared to passenger vehicles. The VMT for the proposed project construction-related vehicle trips would depend on several factors, including the origin of construction worker commute trips (for example, distance from their homes or temporary lodging to the construction site), origin of materials and equipment deliveries to the construction site, and distance to

landfills or other disposal sites from the construction site. While these factors are not all precisely known at this time, the relatively low overall number of vehicle trips generated during the proposed project construction would equate to a relatively low total VMT. Additionally, the construction vehicle trips and associated VMT would be temporary, minimizing the potential long-term impact of the proposed project in terms of greenhouse gas emissions. When construction is completed, construction-related traffic will cease and VMT levels will return to pre-existing conditions with minimal and infrequent trips generated, as described in Section 5.17.4.3. The project will not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b). Therefore, impacts will be less than significant.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? *No Impact.*

PG&E Potential Impact Discussion

No construction, geometric alteration, or incompatible uses of any public roads are proposed. PG&E is currently performing O&M activities, including inspections, at existing PG&E stations and lines that are part of the project. The incremental increase in PG&E O&M activities expected to occur at the modified and new facilities as part of the project will not increase hazards or incompatible uses. Therefore, no impacts would occur.

LEU Potential Impact Discussion

No construction, geometric alteration, or incompatible uses of any public roads are proposed. LEU is currently performing O&M activities, including inspections, at existing LEU stations and lines that are part of the project. The incremental increase in LEU O&M activities expected to occur at the modified and new facilities as part of the project will not increase hazards or incompatible uses Therefore, no impacts would occur.

d) Result in inadequate emergency access? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The PG&E project components will not create transportation-related hazards or result in a substantial negative effect on emergency access. Emergency access will be maintained throughout PG&E's construction and O&M. PG&E construction vehicles and equipment are anticipated to access project construction areas by using existing PG&E access and existing paved, dirt, or gravel roads and overland travel routes. Construction vehicles and equipment needed at the pull sites are expected to be staged or parked within project area ROWs, approved temporary construction easements, or alongside access roads. Any lane closures or other road restrictions will be temporary and short term and would include the following.

- Road crossings for reconductoring. Road closures on private and county roads are not expected to exceed 5 minutes in duration. For the SR 88 and SR 12 crossings, CHP and Caltrans will be contacted to organize 5- to 10-minute rolling stops. The temporary disruption of access during wire stringing operations at any particular location would be fewer than 5 business days.

- Extension of the PG&E 12 kV line within South Guild Avenue. The extension will require lane and sidewalk closure for the two HDD work areas for up to 2 months. Given the width of the road, PG&E anticipates that a temporary parking restriction in the vicinity of the work area will allow for one lane of traffic in each direction to be open at all times. Flaggers and rerouting will be used as needed.

- Temporary lane closures also will be required at various locations for public safety. Removal of the western portion of PG&E's Lockeford-Industrial Line into LEU Industrial Substation, the LEU 12 kV underbuild, and third-party communication lines underbuild are partially located on private property or span driveways where large trucks may be accessing the LEU customer warehouse. In

addition to traffic control and other safety measures, PG&E would provide, as part of the TMP, notification to property owners and businesses in advance of work. In addition, where the installation of guard structures is required, traffic controls and other traffic safety measures will be in place to maintain proper traffic flow.

PG&E closures will be coordinated with Caltrans or local jurisdictions to reduce the effects of potential temporary and short-term emergency access. Any required TMP would further reduce impacts. Therefore, any impacts to emergency access will be less than significant.

LEU Potential Impact Discussion

The LEU project components will not create transportation-related hazards or result in a substantial negative effect on emergency access. Emergency access will be maintained throughout LEU project construction and O&M. LEU construction vehicles and equipment are anticipated to access project construction areas by using existing LEU access and existing paved, or new gravel roads. Any lane closures will be temporary and short term, and these closures will be coordinated with local jurisdictions to reduce the effects of potential temporary and short-term emergency access. Any required TMP would further reduce impacts. Therefore, any impacts to emergency access will be less than significant.

5.17.4.4 Additional Impact Questions

a) Would the project create potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

No creation of potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations is proposed as part of the project. Temporary construction-related lane and sidewalk closures, along with associated traffic and construction site access control, will be used to separate people from potentially hazardous conditions that may be present inside a PG&E construction site work area. PG&E construction vehicles on roadways will be present only temporarily and cause limited-duration changes to walking, bicycling, and driving conditions as the vehicles travel on roads during construction. Use of existing access roads or overland access during construction will not create potentially hazardous conditions. No transit routes are located within approximately 1,000 feet of PG&E project components. Proposed bikeways are located within approximately 1,000 feet of the PG&E project components along South Guild Avenue, East Lodi Avenue, East Victor Road (SR 12), and East Lockeford Street; however, because construction activities are temporary in nature, potentially hazardous conditions will be less than significant.

LEU Potential Impact Discussion

No creation of potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations is proposed as part of the project. Temporary construction-related lane and sidewalk closures, along with associated traffic and construction site access control, will be used to separate people from potentially hazardous conditions that may be present inside an LEU construction site work area. LEU construction vehicles on roadways will be present only temporarily and cause limited-duration changes to walking, bicycling, and driving conditions as the vehicles travel on roads during construction. Use of existing access roads or overland access during construction will not create potentially hazardous conditions. No transit routes or existing bikeways are located within approximately 1,000 feet of the LEU project components. Proposed bikeways are located within approximately 1,000 feet of the LEU project components along East Lodi Avenue and South Guild Avenue; however, because construction activities are temporary in nature, potentially hazardous conditions will be less than significant.

b) Would the project interfere with walking or bicycling accessibility? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

PG&E vehicles would be operated according to applicable laws and regulations, and thus would not interfere with walking or bicycling accessibility. The sidewalks along South Guild Avenue would be temporarily closed to pedestrian access during construction adjacent to and spanning across South Guild Avenue, where the construction activities would cross the roadway. Implementation of the TMP would reduce interference with walking accessibility during construction activities and will provide an alternate pedestrian route on sidewalks when needed. With the completion of the project crossing South Guild Avenue, sidewalk accessibility would return to preconstruction conditions. PG&E O&M will not impact pedestrian facilities. No existing bicycle route is within approximately 1,000 feet from the PG&E project components. Proposed bicycle routes are located within approximately 1,000 feet from the PG&E project components along South Guild Avenue, East Lodi Avenue, East Victor Road (SR 12), and East Lockeford Street. Temporary construction activities and operation activities are not expected to directly impact bicycle facilities. Overall, the project impact on walking and bicycling accessibility will be less than significant.

LEU Potential Impact Discussion

LEU vehicles would be operated according to applicable laws and regulations, and thus would not interfere with walking or bicycling accessibility. The sidewalks along South Guild Avenue would be temporarily closed to pedestrian access during construction adjacent to and spanning across South Guild Avenue, where the construction activities would cross the roadway. Implementation of the TMP would reduce interference with walking accessibility during construction activities and will provide an alternate pedestrian route on sidewalks when needed. With the completion of the project crossing South Guild Avenue, sidewalk accessibility would return to preconstruction conditions. LEU O&M will not impact pedestrian facilities. No existing bicycle route is within approximately 1,000 feet from the LEU project components. A proposed bicycle route is located within approximately 1,000 feet from the LEU project components along East Lodi Avenue and South Guild Avenue. Temporary construction activities and operation activities are not expected to directly impact bicycle facilities. Overall, the project impact on walking and bicycling accessibility will be less than significant.

c) Would the project substantially delay public transit? *No Impact*.

PG&E Potential Impact Discussion

The project's construction and O&M of PG&E project components are not located within approximately 1,000 feet of public transit. No impact will occur.

LEU Potential Impact Discussion

The project's construction and O&M of LEU project components are not located within approximately 1,000 feet of public transit. No impact will occur.

5.18 Tribal Cultural Resources

This section describes existing conditions and potential impacts on tribal cultural resources as a result of project construction, operation, and maintenance. The analysis concludes that impacts on tribal cultural resources will be less than significant; the APMs and BMPs described in Section 5.18.4.2 will further reduce the project's less-than-significant impacts on tribal cultural resources. The project's potential effects on tribal cultural resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.18-2 (located in Section 5.18.3) and discussed in more detail in Section 5.18.4. NAHC and Native American tribe correspondence is included as Appendix D4.

5.18.1 Methodology and Environmental Setting

5.18.1.1 Outreach to Tribes

PG&E Senior Cultural Resource Specialist, Mike Taggart, contacted the NAHC with an initial request for a search of the Sacred Lands File on November 4, 2015. The Commission's response, dated November 25, 2015, stated that no Native American sacred sites are documented within the area of potential impact (API). The Commission also provided a list of seven Native American contacts that may have knowledge about archaeological and/tribal cultural resources in the area. Mike Taggart sent initial outreach letters to the contacts listed by the Commission in May and November of 2016. These letters included information about the proposed project and public open houses to learn more about the project and provide feedback about the potential transmission line corridors. Wilton Rancheria Tribal Resources Coordinator, Ed Silva, responded on December 6, 2016, stating that they were unable to attend the open house dates but requested a meeting with PG&E.

A meeting to discuss the project was held on January 12, 2017; attendees included two contacts from the Wilton Rancheria, Ed Silva and Cultural Resource Officer Antonio Ruiz; PG&E's Mike Taggart and Bob Donovan; and Colleen Taylor from Jacobs. The meeting reviewed project information discussed at the open houses that occurred in 2016. The tribal representatives were encouraged to identify resources to support avoiding or minimizing potential impact during the project design/development and analysis phase that year. Subsequently, the project was put on hold for a couple years and consultation also was paused temporarily.

On April 13, 2021, Far Western, on behalf of PG&E, contacted the Commission with a new request for a current search of the Sacred Lands File. The Commission's response, dated May 10, 2021, stated that no Native American sacred sites are documented within the API. The Commission also provided a list of 18 Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area. On June 17, 2021, Far Western sent letters with associated project maps to the contacts listed by the Commission to inform them of the proposed project and request input regarding tribal cultural resources and areas of cultural sensitivity. At the time of this report, three responses have been received from the Buena Vista Rancheria of Me-Wuk Indians, the United Auburn Indian Community of the Auburn Rancheria, and Wilton Rancheria.

Far Western sent a second letter with the Addendum API project maps to the original 18 Native American contacts on February 8, 2023. Far Western also sent a second request for a search of the Sacred Lands File on January 26, 2023. The Commission's response, dated March 1, 2023, stated that no Native American cultural sites are documented within the Addendum API. The Commission also provided a list of 15 Native American contacts that may have knowledge about archaeological and tribal cultural resources in the area, all of which were originally contacted. As of July 27, 2023, three tribes have contacted PG&E's Starla Lane with requests to consult on this project. The Buena Vista Rancheria of Me-Wuk Indians requests formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources. They also requested a copy of the cultural resources

assessment. The Confederated Villages of Lisjan and United Auburn Indian Community of the Auburn Rancheria both had representatives respond on March 7, 2023, requesting additional information on the cultural assessment findings. PG&E's Starla Lane responded on July 27, 2023, with access to the cultural resources reports, results of the NAHC file search, and GIS shapefiles of the project.

The correspondence timeline and responses are summarized in Table 5.18-1.

Coordination between PG&E and the responding tribes regarding the project is currently underway and any formal comments or recommendations provided by the tribes will be addressed by PG&E cultural resources specialists or forwarded to the CPUC as appropriate.

Table 5.18-1. Summary of the Native American Outreach Efforts.

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
-	Randy Yonemura	May 25, 2016 November 14, 2016 May 26, 2021	No response
Buena Vista Rancheria of Me-Wuk Indians	Rhonda Morningstar Pope	November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	A response was received via email on July 12, 2021, from Ivan Senock to PG&E cultural resources specialist, Starla Lane. The response said, "After review of the notification and examination of the property using the Google Earth mapping application, it is determined BVR has no objection to commencement of the project. If Tribal Cultural Resources should be inadvertently encountered, during the project, Buena Vista Rancheria requests additional notification so steps may be taken to protect and preserve them." A response was received on March 17, 2023, from Ivan Senock. The tribe requests formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources. They also requested a copy of the cultural resources assessment. PG&E responded on July 27, 2023, with access to the cultural resources reports.
California Valley Miwok Tribe	-	May 25, 2016 November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	No response
California Valley Miwok Tribe AKA Sheep Rancheria of Me-Wuk Indians of CA	-	February 8, 2023	No response
Chicken Ranch Rancheria of Me-Wuk Indians	Lloyd Mathiesen	June 17, 2021 February 8, 2023	No response

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
Guidiville Indian Rancheria	Donald Duncan	June 17, 2021 February 8, 2023	No response
Ione Band of Miwok Indians	Crystal Martinez	May 25, 2016 November 14, 2016 May 26, 2021	No response
Ione Band of Miwok Indians	Sara Dutschke	June 17, 2021 February 8, 2023	No response
Ione Band of Miwok Indians Cultural Committee	-	May 25, 2016 November 14, 2016 May 26, 2021	No response
Muwekma Ohlone Indian Tribe of the SF Bay Area	Monica Arellano	June 17, 2021 February 8, 2023	No response
Nashville Enterprise Miwok-Maidu-Nishinam Tribe	Cosme Valdez	June 17, 2021 February 8, 2023	No response
North Valley Yokuts Tribe	Katherine Perez	June 17, 2021 February 8, 2023	No response
North Valley Yokuts Tribe	Timothy Perez	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Joey Garfield	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Neil Peyron	June 17, 2021 February 8, 2023	No response
Tule River Indian Tribe	Kerri Vera	June 17, 2021 February 8, 2023	No response
United Auburn Indian Community of the Auburn Rancheria	Gene Whitehouse	June 17, 2021 February 8, 2023	A response was received via email on July 6, 2021, from Anna Cheng to PG&E cultural resources specialist, Starla Lane, stating that the United Auburn Indian Community of the Auburn Rancheria wishes to consult on this project. The United Auburn Indian Community replied that they do not show any previously recorded CHRIS sites in the API; however, that may be because private property was not surveyed. Ms. Cheng inquired whether a cultural resources survey has been conducted or is scheduled, and if one has already been conducted, they request that it is shared with them. Response received on March 7, 2023, from Anna Starkey. The tribe requested GIS shapefiles of the project area. PG&E responded on July 27, 2023, with access to the cultural resources reports and the GIS shapefiles.

Native American Tribes Contacted	Contact Name provided by NAHC	Letters Sent On	Responder/Response /Date/Actions
Wilton Rancheria	Raymond Hitchcock	May 25, 2016 November 14, 2016 May 26, 2021	A response was received on December 6, 2016, from Wilton Rancheria tribal representative, Ed Silva, stating that they couldn't make any of the open house dates but requesting a meeting.
Wilton Rancheria	Steven Hutchason	May 25, 2016 November 14, 2016 May 26, 2021 June 17, 2021 February 8, 2023	A response was received on June 25, 2021, via email from Mariah Mayberry to PG&E cultural resources specialist, Starla Lane, stating that Wilton Rancheria would like to request consultation on this project. Wilton Rancheria requested any other maps of the project along with the Cultural Resources Assessment once completed. PG&E responded on July 27, 2023, with access to the cultural resources reports and the GIS shapefiles.
Wilton Rancheria	Dahlton Brown	June 17, 2021 February 8, 2023	Refer to previous response from Mariah Mayberry.
Wilton Rancheria	Jesus Tarango	June 17, 2021 February 8, 2023	Refer to previous response from Mariah Mayberry.
The Confederated Villages of Lisjan	Corrina Gould	June 17, 2021 February 8, 2023	Response received from Corrina Gould on March 7, 2023, with a request for a the NAHC results. PG&E responded on July 27, 2023, with access to the cultural resources reports and the NAHC results. Chairperson Gould responded via email on August 2, 2023, with no further information about the project location. They asked to be notified if there are any findings during construction, and reminded the construction team to remain vigilant during construction since the project is on their ancestorial land and unanticipated discoveries are possible.

5.18.1.2 Tribal Cultural Resources

An Archaeological Survey Report for the Project was prepared by Far Western in September 2021 and a report addendum was prepared in May 2023. Because the report and its addendum contain confidential information about the locations and characteristics of cultural sites and tribal cultural resources, the technical report is not included in this PEA for public review but can be made available to agencies and other professionals for review as necessary. The study included a cultural resources records search, consultation with Native American individuals and organizations, outreach with a local historical society, buried and subsurface site sensitivity analyses, and a pedestrian survey of the project area. The following section summarizes the results of this study and efforts to identify tribal cultural resources within the API.

The record searches did not identify any precontact resources. The buried site sensitivity identified a "High" potential for buried precontact resources in the central portion of the project area, near SR 88 and Bear Creek due to the proximity to freshwater and the relatively recent age of the sediments. However, aside from this small portion, due to the relatively low sensitivity in the project area overall, no subsurface archaeological remains are expected. No precontact resources were identified during the pedestrian surveys.

The NAHC file search did not identify any known culturally sensitive sites. No precontact resources have been identified ahead of the AB 52 process. NAHC and Native American tribe correspondence is listed in Table 5.18-1 and copies are provided in Appendix D4. Four Native American stakeholders responded with request for additional information or consultation.

On March 17, 2023, Buena Vista Rancheria of Me-Wuk Indians requested formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources and a copy of the cultural resources assessment. PG&E responded on July 27, 2023 with access to the cultural resources reports and the GIS shapefiles.

United Auburn Indian Community of the Auburn Rancheria requested a copy of the cultural resources report and GIS shapefiles on July 6, 2021 and March 7, 2023, respectively. PG&E responded on July 27, 2023 with access to the cultural resources reports and the GIS shapefiles.

In response to Wilton Rancheria's meeting request on December 6, 2016, an initial project meeting with Wilton Rancheria was held on January 12, 2017 to share project information and receive information (refer to Section 5.18.1.1). No culturally sensitive sites were identified during the meeting within the proposed project. Wilton Rancheria requested consultation and a copy of the cultural resources assessment on June 25, 2021. PG&E responded on July 27, 2023 with access to the cultural resources reports and the GIS shapefiles.

The Confederated Villages of Lisjan requested additional project information on March 7, 2023. PG&E responded on July 27, 2023 with access to the cultural resources reports and the GIS shapefiles. Chairperson Gould responded via email on August 2, 2023, with no further information about the project location. They asked to be notified if there are any findings during construction, and reminded the construction team to remain vigilant during construction since the project is on their ancestorial land and unanticipated discoveries are possible.

PG&E will forward Native American tribe project correspondence received after the CPCN application is filed to the CPUC.

5.18.1.3 Ethnographic Study

Native American stakeholders have not indicated a need for an ethnography to be produced. Historically, the Central Valley was home to no fewer than seven Native California ethnic groups, all related to a single linguistic superfamily—Penutian. It has been estimated that slightly more than 100,000 people lived in the Central Valley when Europeans first ventured into the basin about AD 1772 (Cook 1955, 1976; Moratto 1984:171). If this projection is correct, the valley alone was home to almost one third of the entire state's estimated Native population (Cook 1955, 1976, 1978).

At the time of European contact, almost the entire San Joaquin Valley, including the current API, was held by the Yokuts; only the region immediately east and south of the delta was outside Yokuts territory, controlled instead by the Plains Miwok. At least 50 separate Yokuts groups lived in the San Joaquin Valley and adjacent Sierra Nevada foothills, each having a distinct name, dialect, and territory (Latta 1949). As Moratto (1984:173) points out, the Yokuts may have been the largest ethnic group in California with an estimated precontact population approaching 41,000 people (Cook 1955). According to Milliken (2006), the precontact archaeological sites east of the API fall within the territory of the Coybos, a Northern Valley Yokuts group who lived along the San Joaquin River near the modern town of Lathrop. Milliken estimates a postcontact population density for the Coybos of almost five persons per square mile, among the highest population in the northern part of the valley.

Settlement and Political Organization

Because of early missionization and extended Euro-American contact beginning during the Gold Rush, very little information was recorded about the Coybos and other Northern Valley Yokuts communities (Wallace 1978). Like elsewhere in western California, the Yokuts were organized into small, independent

political groups, referred to as tribelets. Each tribelet was controlled by a single headman and included a single principal settlement and occasionally smaller hamlets. It was the primary task of the headman to organize ceremonies, mediate disputes, mete-out punishment for anti-social behavior, authorize exchange and food collecting expeditions, and assist the needy.

The principal village was home to the headman and as many as 250 to 300 others. These settlements were typically located on an elevated levee ridge in the valley bottom or along a major tributary stream outside the active floodplain of the San Joaquin River. Wallace (1978:463) suggests that most settlements were situated east of the river, as the arid plains fringing the Coast Ranges were relatively unproductive. In contrast, the marshes, sloughs, and forests to the east contained a variety of economically important plant foods, fish, water birds, and terrestrial animals.

Houses were typically simple frame structures covered by tule mats. In the south, large communal houses were built in this manner, providing shelter to as many as 10 families; however, single-family dwellings appear to have been the norm among the Northern Valley groups (Wallace 1978). Sweat-houses were more substantial, semi-subterranean, earth-covered structures and were built in all principal villages. Simple shade structures were also constructed with a wooden framework covered by matting.

Subsistence and Technology

Fishing was an important economic activity carried out with nets and other devices, often from well-made tule boats. Salmon may have been among the most valued species captured by the Northern Valley Yokuts, but sturgeon and various resident fishes were probably as economically significant. Fish were often dried for later use, as was deer, elk, and pronghorn meat. Various water birds, which arrived in great abundance during the fall and winter, were also an important food source, probably second only to fish (Wallace 1978:464). These species were captured in nets, often with the help of decoys fashioned from tule stalks. Domestic dogs were kept by the Yokuts and probably also served as a source of food. Rabbits and pronghorn were hunted in communal drives, while deer and elk were hunted individually. Other small mammals were trapped or snared.

Plant foods included acorns and other nut crops collected from dryer areas away from the river, as well as numerous types of small seeds, bulbs, roots, and greens. These foods were collected and stored in various kinds of baskets. Although salmon and acorns were important staples for the Northern Valley Yokuts, they were not readily available to the south, and thus were not a significant component of the diet among Southern Valley groups (Wallace 1978:464).

Historic Period Disruption

The Northern Valley Yokuts were among the first native groups encountered by Spanish expeditions from the coast. As early as 1776, Lieutenant-Colonel Juan Bautista de Anza led a party from Monterey Bay into the San Joaquin Valley after exploring the edges of San Francisco Bay. Anza's party followed the western edge of the Delta, until a point near modern day Altamont Pass, where they headed inland via the Livermore Valley (Schenck 1926). Between 1776 and 1796, the Spanish established mission outposts and military settlements throughout the Coast Range valleys as far north as San Francisco. During that same period, at least two more Spanish expeditions passed through or near Coybos territory on their way up the San Joaquin River (Schenck 1926). Shortly thereafter, most Yokuts groups left their homeland for the Missions. As recorded in baptismal records, the Coybos moved to Mission San Jose between 1809 and 1813 (Eidsness and Milliken 2004). Thus, when Jedediah Smith passed along the western side of the San Joaquin Valley in 1829, he found no occupied villages from near modern-day Firebaugh to the confluence of the San Joaquin and Calaveras rivers, including the Coybos homeland (Eidsness and Milliken 2004:17).

The modern Northern Valley Yokut tribe is active is advocating for their cultural resources and tribal heritage. They frequently participate in archaeological and cultural resources reviews, surveys, and important collaborative efforts to document Native American resources and remain an important part of California tribal history and modern community.

5.18.2 Regulatory Setting

5.18.2.1 Federal

No federal regulations related to cultural resources are applicable to the project.

5.18.2.2 State

AB 52 established that Tribal Cultural Resources (TCR) must be considered by the lead agency under CEQA. AB 52 provides for additional Native American consultation requirements to be undertaken by the lead agency. A TCR is a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe, and that is:

i) Listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1; in applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency will consider the significance of the resource to a California Native American tribe

5.18.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

City of Lodi is a local agency and must comply with its own local plans and policies.

Background research indicated that no tribal cultural resources designated for local listing are located in the project area.

5.18.3 Impact Questions

The project's potential effects on tribal cultural resources will be evaluated by the CPUC during the AB 52 process using the significance criteria set forth in Appendix G of the CEQA Guidelines. The CEQA checklist for Tribal Cultural Resources is listed in Table 5.18-2 and discussed in more detail in Section 5.18.4.

Table 5.18-2. CEQA Checklist for Tribal Cultural Resources

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or				

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
object with cultural value to a California Native American tribe, and that is:				
i Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				
ii A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				

5.18.3.1 Additional CEQA Impact Questions

None.

5.18.4 Potential Impact Analysis

Project impacts related to tribal cultural resources were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase. The impact discussion is organized to describe the effects that each participating utility's portion of the project has on the environment.

5.18.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. In accordance with Appendix G of the CEQA Guidelines, the potential significance of project impacts on tribal cultural resources were evaluated for each of the criteria listed in Table 5.18-1, as discussed in Section 5.18.4.2.

5.18.4.2 Applicant-Proposed Measures and Best Management Practices

The project will implement the following APMs and BMPs:

APM TCR-1: Undiscovered Potential Tribal Cultural Resources. The following procedure will be employed (after stopping work and following the procedure for determining eligibility in APM CUL-4) if a resource is encountered and determined by the geographically affiliated tribe in collaboration with the project's qualified archaeologist (if appropriate) to be potentially eligible for the CRHR or a local register of historic resources and is associated with a California Native American Tribe with a traditional and cultural affiliation with the geographic area of the proposed project:

- The PG&E cultural resources specialist will notify the CPUC for appropriate action. PG&E will assist the CPUC if needed to identify the lead contact person for the California Native American Tribe(s) potentially associated with the cultural resource and with a traditional and cultural affiliation with the geographic area of the proposed project. The CPUC will communicate with the lead contact person to set up a meeting with PG&E and the CPUC.
- The PG&E cultural resources specialist will participate with the CPUC in discussions with the California Native American Tribe(s) to determine whether the resource is a "tribal cultural resource" as defined by PRC Section 21074 and the tribe(s)' preferred method of mitigation, if the resource is determined to be a TCR.

If no agreement can be reached for mitigation after discussions with the California Native American Tribe(s) or it is determined that the tribe(s)' preferred mitigation is not feasible, PG&E will implement one of the example mitigation measures listed in PRC Section 21084.3(b), or other feasible mitigation.

BMP TCR-1: Undiscovered Potential Tribal Cultural Resources. The following procedure will be employed (after stopping work and following the procedure for determining eligibility in BMP CUL-4) if a resource is encountered and determined by the geographically affiliated tribe in collaboration with the project's qualified archaeologist (if appropriate) to be potentially eligible for the CRHR or a local register of historic resources and is associated with a California Native American Tribe with a traditional and cultural affiliation with the geographic area of the proposed project:

- The LEU cultural resource lead will notify the CPUC for appropriate action. LEU will assist the CPUC if needed to identify the lead contact person for the California Native American Tribe(s) potentially associated with the cultural resource and with a traditional and cultural affiliation with the geographic area of the proposed project. The CPUC will communicate with the lead contact person to set up a meeting with LEU and the CPUC.
- The LEU cultural resource lead will participate with the CPUC in discussions with the California Native American Tribe(s) to determine whether the resource is a "tribal cultural resource" as defined by PRC Section 21074 and the tribe(s)' preferred method of mitigation, if the resource is determined to be a TCR.

If no agreement can be reached for mitigation after discussions with the California Native American Tribe(s) or it is determined that the tribe(s)' preferred mitigation is not feasible, LEU will implement one of the example mitigation measures listed in PRC Section 21084.3(b), or other feasible mitigation.

5.18.4.3 Impact Questions

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

5.18.4.4 Potential Impact Analysis

The project's potential effects on tribal cultural resources will be evaluated by the CPUC during the AB 52 process using the significance criteria set forth in Appendix G of the CEQA Guidelines.

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or ***Impact Determination to be provided by CPUC***

PG&E Potential Impact Discussion

The project's potential effects on tribal cultural resources as it pertains to the PG&E portion of the project will be evaluated by the CPUC during the AB 52 process.

LEU Potential Impact Discussion

The project's potential effects on tribal cultural resources as it pertains to the LEU portion of the project will be evaluated by the CPUC during the AB 52 process.

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency will consider the significance of the resource to a California Native American tribe. ***Impact Determination to be provided by CPUC***

PG&E Potential Impact Discussion

The project's potential effects on tribal cultural resources as it pertains to the PG&E portion of the project will be evaluated by the CPUC during the AB 52 process.

LEU Potential Impact Discussion

The project's potential effects on tribal cultural resources as it pertains to the LEU portion of the project will be evaluated by the CPUC during the AB 52 process.

5.19 Utilities and Service Systems

This section describes existing conditions and potential impacts on utilities and service systems as a result of construction, operation, and maintenance of the project. The analysis concludes that, although these resource areas will be temporarily affected by project construction, project-related impacts to utilities and service systems will be less than significant. Under CEQA, utilities and service systems include water, wastewater, and solid waste collection and treatment. This section also addresses potential impacts on power, natural gas, and telecommunication facilities. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project.

5.19.1 Methodology and Environmental Setting

5.19.1.1 Methodology

General plans and official websites were reviewed for wastewater collection and treatment, water supply, stormwater drainage, solid waste disposal, electricity, and natural gas service providers within the project area. PG&E project-related work at remote-end substations and repeater stations outside of the main project area occurring within existing, fenced facilities will have no impact on utilities or service systems and is not discussed further. Electric and gas services information was obtained from PG&E and from municipal websites. Individual utility provider websites documented coverage areas and system information. These providers and agencies included the City of Lodi, North San Joaquin Water Conservation District, San Joaquin County, LEU, PG&E, and a variety of telecommunication providers detailed in the following subsections. The references section includes a complete list of documents and websites that were reviewed to develop this analysis.

5.19.1.2 Environmental Setting

Utility Providers

Electricity and Natural Gas

PG&E provides electricity and natural gas services to San Joaquin County (PG&E 2014). The City of Lodi is serviced by LEU (City of Lodi 2017). The electricity distributed by LEU is generated by NCPA and sources include geothermal, hydroelectric, and natural gas. California DWR is leading and funding construction of a 48 MW power generating unit in the City of Lodi for use during extreme peak-demand events (City of Lodi 2023). The new power plant is expected to be available for operation by the end of the summer 2023 to feed directly into the LEU grid as needed and at the direction of CAISO in response to an emergency event when supplemental power supply is required (Dudek 2023). Electricity and natural gas supply during construction and operation of the project will be provided by both PG&E and LEU, if required. Electricity sources include several hydroelectric facilities (named as a powerhouse, PH), including NCPA Collierville PH, PG&E Tiger Creek PH, PG&E Electra PH, PG&E Salt Springs PH, and PG&E West Point PH, which all feed PG&E Bellota Substation; and PG&E Poe PH, PG&E Rock Creek PH, and PG&E Cresta PH, which all serve PG&E Rio Oso Substation. The NCPA Lodi combustion turbine uses diesel fuel to generate electricity primarily during high-load periods.

Stormwater Drainage

San Joaquin County

The main project components are located in the San Joaquin Valley, where the major rivers and tributaries flow into the San Joaquin River. The river flows into the San Joaquin Delta (San Joaquin County Flood Control & Water Conservation District 2022).

Stormwater drainage is conveyed via County storm drains to the Calaveras, Mokelumne, Old, and San Joaquin Rivers, where it ultimately flows into the Delta. The Public Works Department manages the stormwater system and associated facilities for San Joaquin County (San Joaquin County 2022). Refer to Section 5.10, Hydrology and Water Quality, for further discussion of area drainage.

There are no community stormwater drainage systems within the proposed PG&E Lockeford Substation expansion or 230 kV transmission line project ROW in San Joaquin County (SJC GIS 2022).

City of Lodi

The City drainage system is bounded by the Mokelumne River on the north; East Harney Lane on the south; the CCT Company Railroad, East Kettleman Lane, and SR 99 on the east; and Woodbridge Irrigation District (WID) Canal approximately 2,600 feet west of Sacramento Road on the west. The City drainage area totals approximately 6,673 acres (10.4 square miles). In 2020, the population of the City was 67,930. The City maintains an intricate, gravity-based stormwater system built around stormwater detention basins and disposal of runoff by pumping to the Woodbridge Canal, Lodi Lake, or Mokelumne River. The detention basins are located throughout the City and are maintained as parks and recreational facilities during non-runoff periods (City of Lodi 2020).

There are no pump stations, outfalls, valves, storm drain maintenance holes, or storm mains within the project area (City of Lodi 2022c).

Telecommunications

A variety of wireless companies, including AT&T, XFinity, Viasat, HughesNet, Softcom, Unwired, CalDSL, and other companies, provide wireless phone service, television, and Internet in San Joaquin County and the City of Lodi (Broadbandnow 2022).

Water Supply

San Joaquin County

The NSJWCD supplies water for northeastern San Joaquin County, including the project area (NSJWCD 2021). The NSJWCD service area covers approximately 150,000 acres, including approximately 70,000 acres of irrigated farmland. Existing infrastructure that delivers water to northern San Joaquin County includes Camanche Reservoir, owned by East Bay Municipal Utility District (EBMUD), for seasonal water storage; NSJWCD's North Pump Station and pipeline on the Mokelumne River, which are non-operable; and NSJWCD's South Pump Station and pipeline on the Mokelumne River, which are partially operable (NSJWCD 2021). NSJWCD also owns two recharge facilities, the Tracy Lake Recharge Project and the Cal-Fed Recharge Project (NSJWCD 2021). The NSJWCD south pipeline appears to be located along a private farm road between Alpine Road and North Locust Tree Road near proposed PG&E Structure W22 (NSJWCD 2020). The proposed structure would be located about 25 feet from the edge of the private farm road and the pipeline would be under the adjacent span to the west. The NSJWCD District Engineer communicated to PG&E that the District should have no concern regarding project overhead lines crossing NSJWCD pipelines (de Graaf 2022).

The San Joaquin County Flood Control and Water Conservation District develops and maintains groundwater monitoring networks and data systems to support the Eastern San Joaquin Groundwater Sustainability Plan (SJCFCWCD 2023).

City of Lodi

The City of Lodi currently uses both surface water and groundwater for drinking water supply (City of Lodi 2021). The City of Lodi Water Utility is the sole water purveyor for the City. Approximately half of the City's water supply is surface water from the Mokelumne River, purchased from WID and delivered via WID canal

facilities near Woodbridge Dam. The surface water is treated at the Lodi Surface Water Treatment Plant (SWTP), which is located in the northwest part of the City and began operation in 2012.

The primary water supply is provided by groundwater from a system of 28 groundwater production wells in the Eastern San Joaquin Subbasin and distributed throughout the water service area. In addition, the City has a system of pipelines and four water storage tanks to store treated water from the SWTP (City of Lodi 2021). The nearest tank to the project is Storage Tank C, located on East Thurman Road directly south of the PG&E Lodi Substation and west of the site for the proposed LEU Guild Substation and PG&E Thurman Switching Station. The City has a 12-inch water main in East Thurman Road and a 10-inch water main in South Guild Avenue that could provide up to 4,000 gallons per minute to the site (Shahriar 2023).

Wastewater Collection and Treatment Services

San Joaquin County

The collection, treatment, and disposal of wastewater in San Joaquin County occurs in two ways: (1) community collection and treatment systems that discharge into various rivers, watercourses, and the Delta, and (2) individual onsite treatment systems that discharge to the ground. There are nine community collection and treatment systems in San Joaquin County, including the Cities of Stockton, Tracy, Lodi, Manteca, Ripon, and Escalon; the Woodbridge Sanitary District; the Lockeford Community Services District; and the Linden County Water District (San Joaquin County 2016). Rural residential developments and structures on surrounding farmlands that are not served by centralized wastewater systems rely on individual septic systems (SJCEHD 2016). There are no community wastewater collection systems within the PG&E expanded Lockeford Substation footprint or proposed 230 kV transmission line ROW in San Joaquin County (SJC GIS 2022).

City of Lodi

Wastewater is the responsibility of the City of Lodi Utilities Department, which manages and maintains the wastewater collection system. The City's wastewater system currently consists of about 191 miles of collection system pipelines that flow southwest to the City's White Slough Water Pollution Control Facility located approximately 6 miles west of the city (City of Lodi 2012). The City distributes a portion of the treated effluent for recycled water use; in 2020, 4,746 AF of recycled water was distributed for use in the Lodi service area (City of Lodi 2021).

There are no wastewater maintenance holes, mains, services, or lift stations within the project area in Lodi (City of Lodi 2022c).

5.19.1.3 Utility Lines

The new PG&E 230 kV line will cross approximately 18 existing PG&E distribution lines, approximately three 60 kV lines, and approximately one 115 kV line in San Joaquin County, as shown on Figure 3.5-1. Temporary guard structures will be constructed, and no disturbance is expected to these lines. Refer to Figure 3.5-3 for example photos of guard structures.

When entering the City of Lodi, the new PG&E 230 kV alignment will reuse the existing PG&E Lockeford-Industrial 60 kV power line alignment. Before the western extent of the proposed PG&E 230 kV line is constructed, the western end of PG&E's Lockeford-Industrial line will be removed along with the aboveground LEU 12 kV feeder lines and Comcast telecommunication lines using the joint poles. The LEU 12 kV feeder line segment in service will be relocated to an adjacent underground alignment, and the existing feeder spans not in service will be removed. Comcast has been notified of the project and the potential need to relocate its facilities. Comcast is aware of the proposed project and is awaiting CPUC project approval before removing its facilities from the joint power pole (Glisson 2022). Refer to Figure 3.5-1 and Figure 5.19-1 for existing and proposed line details related to this project within the City of Lodi along with existing known utility lines. Where the new PG&E 230 kV line will cross South Guild Avenue, the

transmission line also will cross the new underground PG&E 12 kV secondary station service for PG&E's Thurman Switching Station.

A 10-inch City of Lodi water main with one 6-inch water service line to a fire hydrant is near PG&E's existing Lockeford-Industrial pole 7, where the new 230 kV line will reuse the 60 kV alignment. Refer to Figures 5.19-1. The new 230 kV structure W45 and the LEU 12 kV feeder line relocated to an underground alignment will avoid this water main and the service line. Another 10-inch water main runs along the center of South Guild Avenue and will be crossed aboveground by the new 230 kV line and by the underground extension of PG&E's 12 kV service line to PG&E's Thurman Switching Station (City of Lodi 2022c). The driveway from South Guild Avenue into the PG&E Thurman Switching Station south gate will be approximately 40 feet south of the existing fire hydrant and its 6-inch service line from the 10-inch water main in the roadway.

The City of Lodi storm drain access point in the southwest portion of the intersection of East Lodi Avenue and South Guild Avenue connects two 15-inch City of Lodi water mains located under the eastbound lane of East Lodi Avenue and located under the southbound lane of South Guild Avenue, north of East Lodi Avenue. The South Guild Avenue 15-inch water main extends approximately 120 feet before connecting with two stormwater laterals and narrowing to a 12-inch main for the remainder of its length to the north. One of these stormwater laterals connects to a stormwater catch basin along the curb of the South Guild Avenue northbound lane approximately 80 feet south of the existing PG&E 12 kV pole where the secondary station services extension will start. A City of Lodi 8-inch wastewater main has a similar configuration, with an access point on the northwest side of the intersection of East Lodi Avenue and South Guild Avenue. The wastewater main appears to be under the sidewalk or paved shoulder of the southbound lane of South Guild Avenue (City of Lodi 2022c).

The proposed underground PG&E service line extension in South Guild Avenue in the vicinity of its intersection with East Lodi Avenue will avoid these City of Lodi water mains, stormwater line, wastewater lines, laterals, catch basins, and access points through communication with the City of Lodi and potholing by PG&E before construction to inform about its alignment within franchise.

An increase in corrosion rate can occur with adjacent circuits through inductance, especially with direct current circuits. While inductance is not likely with the proposed project given the type of circuit, there are circumstances where stray alternating current can cause an increase in corrosion rate. The adjacent alternating circuit 230 kV lines will be insulated from one another as part of standard design, which prevents an increase in corrosion rate. Any resulting stray alternating current from an adjacent circuit is expected to follow an alternative path than to another insulated line.

5.19.1.4 Approved Utility Projects

There are no known additional approved utility projects within the project construction access or work areas, or permanent alignments or facilities other than the utility modifications described in Chapter 3, Project Description. The project includes reconfiguration of four of PG&E's existing 60 kV power lines, expansion and reconfiguration of PG&E Lockeford Substation to accommodate the new 230 kV lines, modifications to PG&E's remote-end substations and repeater station, and modification to LEU's existing 12 kV lines. Additionally, LEU Industrial Substation will be modified to connect to the new, adjacent LEU Guild Substation's 60 kV bus with the new LEU Guild-Industrial #1 and #2 60 kV lines and disconnected from PG&E's three existing 60 kV lines. Existing LEU 60 kV conductors within LEU Industrial Substation will be transposed to address the changes in 60 kV feed. Portions of two LEU 12 kV lines extending from LEU Industrial Substation and partially located on PG&E Lockeford-Industrial poles will be removed and relocated by LEU to continue existing customer service. Comcast's telecommunication lines underbuilt on PG&E's Lockeford-Industrial pole 4 will be relocated as part of the approved project.

5.19.1.5 Water Supply

San Joaquin County

Potable water for domestic use and for irrigation is provided in San Joaquin County through multiple agencies, including federal, regional, and local water districts and special districts, as well as private systems and wells (San Joaquin County 2014). The portion of San Joaquin County in which the project is located is served by the NSJWCD. Communities and agricultural areas not served by water districts or water systems that provide surface water must rely on groundwater. Most water supply districts in San Joaquin County have been transitioning away from groundwater sources to surface water to reduce overdraft of groundwater (San Joaquin County 2014).

NSJWCD has a relatively junior water right to divert up to 20,000 acre-feet of water per year from the Mokelumne River, which runs through the District (NSJWCD 2021). NSJWCD has never fully used its right because of a lack of efficient and functional water delivery infrastructure. Most agricultural users in the district rely exclusively on groundwater, pumping an average of 140,000 acre-feet every year from the critically overdrafted Eastern San Joaquin Groundwater Subbasin (NSJECD 2021). The Eastern San Joaquin Subbasin is not adjudicated and is currently managed under the *Eastern San Joaquin Groundwater Sustainability Plan*. Additional discussion of the Eastern San Joaquin Groundwater Basin is provided in Section 5.10, Hydrology and Water Quality.

NSJWCD's Strategic Plan includes actions to upgrade and expand its South Pump System and to improve and to make operable its North Pump System (NSJECD 2021) so that it increases use of its surface water rights and reduces overdraft of the Eastern San Joaquin Groundwater Subbasin. The Strategic Plan also calls for funding and full operation of its existing recharge facilities. In addition, NSJWC is participating with EBMUD and other agencies in the Demonstration Recharge, Extraction and Aquifer Management (DREAM) pilot project to diversify water supplies, enhance drought resilience, and restore the aquifer through groundwater recharge (San Joaquin County 2023).

City of Lodi

The City's sources of water supply are from its groundwater wells and from Mokelumne River surface water treated at the SWTP. The City purchases 6,000 acre-feet per year (AFY) from WID, with a banked supply currently of 53,534 AF per its agreement with WID (City of Lodi 2021). Previously, the City also had an agreement to purchase up to 1,000 AFY from NSJWCD, but that agreement ended in October 2020. The City's primary source of water is groundwater that it pumps using 28 groundwater production wells distributed throughout the water service area. The 28 wells have a combined capacity of 38,355 gallons per minute, with a maximum capacity at this rate of approximately 62,000 AFY (City of Lodi 2021). The wells operate automatically on water pressure demand and pump directly into the distribution system. In 2020, the City pumped 7,475 AF of groundwater.

In addition, the City distributed 4,746 AF of recycled water for use on the land immediately surrounding the WWTP for agricultural irrigation, power generation, and fish pond replenishment. Since those recycled water users were never intended to use potable water, they are not offsetting potable demand and are, therefore, not included in the City's gross water use (City of Lodi 2021).

Not all water accounts in the City are metered; the City's Water Meter Program should ensure that all accounts are metered by 2025 (City of Lodi 2021). Approximately 67% of accounts were metered as of 2020. Total water use in the City during 2020 was 13,429 AF, consisting of approximately 70% residential, approximately 22% commercial, approximately 6% government, and approximately 2% industrial (City of Lodi 2021).

5.19.1.6 Landfills and Recycling

San Joaquin County

The San Joaquin County Department of Public Works is the lead department for administration of solid wastes and operation of facilities in the County. The greatest volume of waste in the County is municipal waste from residential, commercial, and industrial sources. The San Joaquin County Solid Waste Division provides transfer, disposal, and recycling services to Stockton, Tracy, Lodi, Manteca, Ripon, Lathrop, Escalon, and unincorporated San Joaquin County.

There are two County-owned landfills that could provide service to the project: the North County Recycling Center and Sanitary Landfill (operated by the County) and the Foothill Sanitary Landfill (privately operated) (SJCDPW 2023). In addition, the County operates the Lovelace Materials Recovery Facility and Transfer Station, which sends waste to Foothill Sanitary Landfill and also could serve the project. Treated wood waste is expected to be taken to Forward Landfill, Chemical Waste Management - Kettleman Hills, or Clean Harbors Buttonwillow. Any contaminated soil or hazardous materials are expected to be taken to Kettleman Hills or Clean Harbors Buttonwillow. Capacities and estimated closure dates are listed in Table 5.19-1.

Table 5.19-1. Landfills and Recycling Facilities

Landfill Name	Remaining Total Landfill Capacity (yd^3)	Landfill Average Daily Volume or Capacity	Estimated Closure Date	Takes Construction Waste?
North County Recycling Center and Sanitary Landfill (Lodi)	35,400,000	1,200 tons per day	2048	Yes
Foothill Sanitary Landfill (Linden)	125,000,000	951 tons per day	2082	Yes
Lovelace Materials Recovery Facility and Transfer Station (Manteca)	n/a (recovery and transfer)	743 tons per day	n/a	Yes
Forward Landfill (Manteca)	24,720,669	4,000 tons per day	2043	Yes
Chemical Waste Management - Kettleman Hills (Unit B-18) (Kettleman Hills)	15,600,000	N/A	2042	Yes (hazardous)
Clean Harbors Buttonwillow (Buttonwillow)	13,250,000 (maximum capacity)	10,500 tons per day	2040	Yes (hazardous)

Source: SJCDPW 2023, CalRecycle 2019; DTSC 2014

City of Lodi

The City of Lodi has contracted Waste Management Solutions to provide residential and commercial garbage collection, transportation, and disposal and the collection of recyclable materials (City of Lodi 2022a). Waste Management also owns and operates the Lodi Recovery and Transfer Station Facility. Waste collected is disposed of at the area landfills.

5.19.2 Regulatory Setting

This section details the applicable federal, state, and local laws, policies, and standards for utilities and services in the project area.

5.19.2.1 Federal

No federal regulations pertaining to utilities and service systems are applicable to the proposed project.

5.19.2.2 State

California Government Code

Section 4216 of the California GC protects underground structures during excavation. Under this law, excavators are required to contact a regional notification center at least 2 days prior to excavation of any subsurface installations. In the project area, USA is the regional notification center. USA notifies utility providers with buried lines within 1,000 feet of the excavation, and those providers are required to mark the specific location of their facilities prior to excavation. The code also requires excavators to probe for and expose existing utilities, in accordance with state law, before using power equipment.

California Water Code

California Water Code Section 10910 requires that a city or county undertaking CEQA for a project identify public water systems that may supply water to the project and to complete a water supply assessment. Per Section 10912, this requirement applies to residential and commercial projects large than a certain size and to proposed industrial, manufacturing, or processing plants or industrial parks planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area. The requirement also applies to other projects that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project. If the city or county does not have an adopted urban water management plan, the water supply assessment must analyze whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

California Water Code Section 1300 lays out the requirements for a statewide program for the control of the quality of all the waters of the state. Section 13140 says that the California State Water Board shall formulate and adopt state policy for water quality control. Section 13172 includes requirements for waste management facilities, both hazardous and nonhazardous, as defined in Section 13173, to protect water quality.

Hazardous Waste Fee Health and Safety Code

The Hazardous Waste Fee Health and Safety Code (CA HSC Chapter 6.5, Section 25143 et seq.) provides definition and guidance on wood waste and its disposal. Wood waste is defined in part as poles, crossarms, pilings, and fence posts that have been previously treated with a preservative.

Wood waste materials removed from electric, gas, or telephone service are exempt from the requirements for disposal provided certain conditions are met, including the following:

- If the wood waste is not subject to regulation as a hazardous waste under a federal act and it is disposed of in a composite-lined portion of a municipal solid waste landfill that meets any requirements imposed by the state policy adopted pursuant to Section 13140 of the Water Code and regulations adopted pursuant to Sections 13172 and 13173 of the Water Code
- If the solid waste landfill used for disposal is authorized to accept the wood waste under waste discharge requirements issued by the RWQCB pursuant to Division 7 (commencing with Section 13000) of the Water Code

Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

San Joaquin County

In 2009, San Joaquin County instituted a Construction, Demolition, and Landscaping Debris Recycling and Diversion (C&D) Ordinance. This ordinance requires that all applicable projects must divert 50% of all construction and demolition debris, excluding inert and organic material, and 90% of inert and organic material from the landfill through reuse and recycling. Construction, demolition, and renovation projects greater than 1,200 square feet are deemed "applicable projects" under San Joaquin County's C&D Ordinance. PG&E will comply with the C&D Ordinance as part of its application for a County building permit for its expansion of its Lockeford Substation. County permit applicants are required to submit a Diversion Plan prior to construction and Diversion Report within 30 days of construction completion to prove compliance with County recycling requirements (San Joaquin County 2022).

City of Lodi

The City of Lodi requires an Industrial Waste Hauler Permit from any construction and demolition projects as part of its Solid Waste Ordinance (City of Lodi 2022a). PG&E and LEU each may obtain the permit directly or a PG&E or LEU contractor or vendor may obtain the required permit for industrial waste hauling activities from the project work within the City of Lodi.

5.19.3 Impact Questions

The project's potential effects on utilities and service systems were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.19-2 and discussed in more detail in Section 5.19.4.

Table 5.19-2. CEQA Checklist for Utilities and Service Systems

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☒
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

5.19.3.1 Additional CEQA Impact Questions

The project's potential effects on recreational resources also were evaluated using the CPUC's Additional CEQA Impact Questions for Recreation in the *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments* (CPUC 2019). These additional impact questions are evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The conclusions are summarized in Table 5.19-3 and discussed in more detail in Section 5.19.4.

Table 5.19-3. Additional CEQA Impact Questions for Utilities and Service Systems

Would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?	☐	☐	☐	☒

5.19.4 Potential Impact Analysis

Project impacts related to utilities and service systems were evaluated against the CEQA significance criteria and are discussed in the following subsections. The impact analysis evaluates potential project impacts during the construction phase and the operation and maintenance phase.

5.19.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "… a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts on utilities and service systems was evaluated for each of the criteria listed in Table 5.19-2, as discussed in Section 5.19.4.3.

5.19.4.2 Applicant-Proposed Measures and Best Management Practices

The project will have less-than-significant impacts on utilities and service systems, so no APMs or BMPs are proposed.

5.19.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The PG&E portion of the project will not require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities that could cause significant environmental effects. However, the nature of the project includes planned modification of existing electric power facilities that will relocate or expand existing and construct new electric transmission, power, distribution, and telecommunication facilities and those activities will result in a less-than-significant impact during the construction and relocation. The relocation of existing PG&E and LEU electric facilities and the construction of new and expanded PG&E and LEU electric facilities are required to achieve the project identified by CAISO. PG&E has communicated with LEU, Comcast, and NSJWCD about the proposed PG&E facilities and potential relocation. NSJWCD has indicated that the PG&E transmission line spanning its water pipelines appears to be compatible and no relocation is expected. LEU plans to relocate an existing 12 kV feeder line segment in service and remove its 12 kV feeder spans not in service on the joint utility poles of PG&E's Lockeford-Industrial. Comcast will remove its telecommunication lines from the PG&E joint utility pole and reconfigure its telecommunication lines as needed at the time of construction.

The PG&E 230 kV transmission line structures are located to avoid known well locations. Two wells are identified within the proposed PG&E transmission line ROW. As the design is finalized, well information will be updated in coordination with landowners and, if necessary, the PG&E transmission line design will be adjusted to accommodate new wells. Appropriate vertical and horizontal clearances have been accounted for in the PG&E transmission line design to provide adequate clearance for well maintenance equipment at known well locations. It is not anticipated that wells will need to be relocated as part of the proposed project. The PG&E 230 kV transmission line is designed to safely span above other existing PG&E

distribution and power lines with regulated line clearance distance. The PG&E 230 kV transmission line will span underground water lines and structures will not impact underground water line facilities. The final design of the extended PG&E 12 kV service line will be coordinated with the City of Lodi to avoid impact to existing underground water, stormwater, and wastewater facilities in South Guild Avenue.

Although project construction will require the use of water and wastewater facilities by construction workers, this use will be temporary and short term. Water trucks, typically with a capacity of up to approximately 3,000 gallons, will support project construction activities and dust suppression. As many as approximately three or four water trucks with an approximate 3,000-gallon capacity may be used daily for dust suppression during the peak periods of construction when ground disturbance may be occurring at 230 kV structure locations and PG&E stations. However, the total volume available within the trucks onsite is not expected to be used daily. Water use will vary with type of activities (increased use when activity is ground disturbing) and other daily site conditions such as wind speed. Up to approximately 8,000 to 12,000 gallons of water may be needed daily for dust suppression during peak periods of construction. Furthermore, the construction workforce will be relatively small (up to approximately 40 workers of an estimated peak project workforce of 66), so minimal water use and wastewater generation will occur. Wastewater service will be provided by portable toilets, and waste will be disposed of at appropriately licensed offsite facilities. Water will be used for dust control and worker needs. This use will be temporary and short term and will not require construction of new water and wastewater treatment facilities. The project will not require new or expanded water or wastewater treatment facilities, and existing water and wastewater facilities are sufficient to serve project needs. Therefore, no impact will occur.

The project will involve installing new PG&E 230 kV transmission lines and reconductoring existing PG&E power lines, which will not require stormwater drainage facilities. The project will construct new stormwater containment facilities at PG&E Thurman Switching Station and expand existing containment facilities at PG&E Lockeford Substation. In addition to an expanded PG&E Lockeford Substation stormwater basin, the existing stormwater drainage ditch will be relocated and extended on the substation parcel. The expanded drainage will collect and direct additional stormwater generated by the expanded substation footprint into the expanded stormwater basin. During construction of new and expansion of existing stormwater containment facilities, erosion and sediment control will minimize construction impacts on surface water quality, as well as reduce the potential for stormwater to impact adjacent properties through implementation of an SWPPP. PG&E's relocation of and construction of new and expanded stormwater facilities will not cause significant environmental effects. No change or expansion to stormwater drainage would occur during operation and maintenance of PG&E project components; no impact will occur.

The project will not require the construction of new or expanded natural gas or public telecommunications facilities. The project will not require relocation and construction of new or expanded electric utility facilities that are outside the scope of the project. As required by state law, PG&E will notify other utility companies to locate and mark existing underground structures at proposed work areas prior to any ground-disturbing activities. No impact will occur.

The minimal water potentially needed for transmission line conductor washing would be required infrequently and would not require construction of new water facilities. The project's operation and maintenance are not known to require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. No impact will occur.

LEU Potential Impact Discussion

The LEU portion of the project will not require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities that could cause significant environmental effects. However, the nature of the project includes planned modification of existing electric power facilities that will relocate or expand existing and construct new electric transmission, power, distribution and telecommunication facilities and

those activities will result in a less-than-significant impact during the construction and relocation. The relocation of existing PG&E and LEU electric facilities and the construction of new and expanded PG&E and LEU electric facilities are required to achieve the project identified by the CAISO. LEU has communicated with PG&E about the proposed modification to LEU Industrial Substation and relocation of the connections with existing PG&E 60 kV lines that will no longer be needed.

Construction of LEU project components will require the use of water and wastewater facilities by construction workers, but this use will be temporary and short term. LEU estimates that its LEU Guild Substation will require approximately 40,000 gallons of water (approximately 3 acre-feet). However, daily water use during the LEU construction period will vary based on the construction phase, but it is estimated that the average water use per day will be approximately 200 gallons over the course of the estimated total of approximately 7 months of construction with ground-disturbing activities. Furthermore, the construction workforce will be relatively small (up to approximately 26 workers of an estimated peak project workforce of 66), so minimal water use and wastewater generation will occur. Wastewater service will be provided by portable toilets, and waste will be disposed of at appropriately licensed offsite facilities. Water will be used for dust control and worker needs. This use will be temporary and short term and will not require construction of new water and wastewater treatment facilities. The project will not require new or expanded water or wastewater treatment facilities, and existing water and wastewater facilities are sufficient to serve project needs. Therefore, no impact will occur.

The project will construct new stormwater containment facilities at LEU Guild Substation. During construction of new stormwater containment facilities, erosion and sediment control to minimize construction impacts on surface water quality, as well as reduce the potential for stormwater to impact adjacent properties will be implemented through an SWPPP. LEU's construction of new stormwater facilities will not cause significant environmental effects. No change or expansion to stormwater drainage would occur during operation and maintenance of LEU project components; no impact will occur.

The project will not require the construction of new or expanded natural gas or public telecommunications facilities. The project will not require relocation and construction of new or expanded electric utility facilities that are outside the scope of the project. No impact will occur.

The project's operation and maintenance are not known to require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. No impact will occur.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

A water supply assessment per California Water Code Section 10910 is not required for the project. As noted in Section 5.19.2.2, industrial projects are required to prepare a water supply assessment if the project site is planned to house more than 1,000 persons, occupy more than 40 acres of land, or have more than 650,000 square feet of floor area. The project does not house any new employees or residents or include any building floor area. The total acreage of land occupied by new project facilities is approximately 14 acres. In addition, the project's operational water use, approximately 45,000 gallons every 5 years for cleaning, is significantly less than the water required by a 500 dwelling unit project. In the Lodi area, the average household account water use was approximately 132,860 gallons per year (City of Lodi 2021), which would be more than 66 million gallons per year for 500 households.

The primary need for water will be for construction-related dust control activities, and recycled water from the City of Lodi will be used for that purpose if feasible; other potential water sources for dust suppression include groundwater from the City of Lodi or other local wells. Also, a small amount of potable water will be supplied to PG&E construction workers for drinking and will be delivered to PG&E work areas by

construction vehicles and equipment. Water trucks used for dust control during construction generally have capacity for 3,000 gallons of water; up to three or four trucks per day would be used during peak construction activities. This is equivalent to the daily use of approximately 33 local households, or approximately 0.01% of current industrial water use in Lodi, and would only occur for short periods. In its UWMP, the City of Lodi has determined that sufficient supplies will be available in a 5-year drought at least through 2035, which covers the construction period of the project (City of Lodi 2021). The minimal water needed for dust control and construction crew consumption will not exceed available supplies. Existing offsite water entitlements and resources will be sufficient to accommodate the project's minor temporary and short-term water needs and relatively small number of construction workers. Impacts would be less than significant.

PG&E operation and maintenance visits will be conducted occasionally, and insulators washing is the only known activity that would require water. If an inspector requires that insulators be washed as part of the 5-year PG&E transmission line, PG&E Thurman Switching Station, or PG&E Lockeford Substation inspection findings, a pumper truck (3,000-gallon volume) would be used to clean insulators that required washing. Approximately 45,000 gallons of water would be required for the washing. In its UWMP, the City of Lodi has determined that sufficient supplies will be available in a 5-year drought at least through 2035 (City of Lodi 2021). Should there be constrained water use in Lodi in later years because of a multi-year drought, the small amount of water needed could be obtained from other sources such as recycled water or water trucked in from areas with sufficient supplies. Therefore, operations and maintenance would not result in significant impacts to water supply.

LEU Potential Impact Discussion

The primary need for water will be for construction-related dust control activities and recycled water will be used if feasible. The primary need for water will be for construction-related dust control activities, and recycled water from the City of Lodi will be used for that purpose if feasible; other potential water sources for dust suppression include groundwater from the City of Lodi or other local wells. Also, potable water will be supplied to LEU construction workers for drinking and will be delivered to LEU work areas by construction vehicles and equipment. Water trucks used for dust control during construction generally have capacity for 3,000 gallons of water. The minimal water needed for dust control and construction crew consumption will not exceed available supplies. Existing offsite water entitlements and resources will be sufficient to accommodate the project's minor temporary and short-term water needs and relatively small number of construction workers. No impact will occur.

LEU operation and maintenance visits will be conducted occasionally, but water is not required for these activities. Therefore, no operations or maintenance impact to water supply will occur.

c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? *No Impact.*

PG&E Potential Impact Discussion

Portable toilets will be provided for construction workers during construction of PG&E portion of the project. Sanitary waste will be maintained by a licensed sanitation contractor and the licensed contractor will dispose of the waste at an offsite location at the closest feasible wastewater treatment district facility, such as the City of Lodi's White Slough Water Pollution Control Facility. This temporary and short-term use will not require expansion of existing water and wastewater treatment facilities or construction of new facilities. Therefore, no impact will occur.

The project does not include construction of PG&E facilities that will generate wastewater; therefore, operations and maintenance will have no impact.

LEU Potential Impact Discussion

Portable toilets will be provided for construction workers during construction of LEU portion of the project. Sanitary waste will be maintained by a licensed sanitation contractor and the licensed contractor will dispose of the waste at an offsite location at the closest feasible wastewater treatment district facility, such as the City of Lodi's White Slough Water Pollution Control Facility. This temporary and short-term use will not require expansion of existing water and wastewater treatment facilities or construction of new facilities. Therefore, no impact will occur.

The project does not include construction of LEU facilities that will generate wastewater; therefore, operations and maintenance will have no impact.

d) Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? *No Impact.*

PG&E Potential Impact Discussion

The PG&E portion of the project would not generate solid waste in excess of state or local standards or local capacity, or otherwise impair solid waste reduction goals.

PG&E estimates generating approximately 3,550 yd^3 (approximately 1,210 tons) of agricultural and green waste, including removed trees. Vegetation is expected to be taken to a suitable facility such as North County Recycling Center and Sanitary Landfill, Foothill Sanitary Landfill, or Lovelace Materials Recovery Facility and Transfer Station, and would be composted where feasible.

Approximately 8 yd^3 of pavement will be cut and removed by PG&E for the HDD excavations for its secondary service line extension. PG&E estimates that approximately 1 yd^3 of 60 kV conductor and guy wire will be recycled or reused by PG&E after being removed as part of the PG&E 60 kV reconfiguration. The metal framing removed from PG&E's 60 kV poles is expected to have 10% recycled (approximately 0.05 yd^3) and 90% (approximately 0.50 yd^3) disposed as construction waste. If PG&E removes the line tuners and wave trap equipment from PG&E Bellota, PG&E Brighton, and PG&E Rio Oso substations, approximately 34% (approximately 1.1 yd^3) is expected to be recycled or reused by PG&E and 66% (approximately 2.2 yd^3) disposed as construction waste. The approximately 3,150 feet of fence material (approximately 11 yd^3) removed from PG&E Lockeford Substation perimeter fence will be recycled. The cut volume of approximately 3,206 yd^3 of soil at the PG&E Thurman Switching Station will be hauled for disposal.

Treated wood waste has the potential to be classified as hazardous waste if it contains elevated levels of arsenic, chromium, copper, pentachlorophenol, or creosote. Treated wood waste often can be identified visually by tags or markings on the wood, when cut staining is visible around the perimeter only, or by discoloration or odor. If encountered, such as with the removed or topped PG&E 60 kV poles, the treated wood waste will be managed in accordance with applicable California and federal regulations. Approximately 10 yd^3 of PG&E wood poles or pole tops are estimated to be removed and managed as treated wood waste in accordance with applicable California and federal regulations. PG&E will dispose of utility generated waste, including treated wood waste, under the Hazardous Waste Fee Health and Safety Code (CA HSC Chapter 6.5, Section 25143 et seq.). Under this exemption, the wood waste would be disposed of in a composite lined portion of a municipal solid waste landfill that meets requirements imposed by the state policy adopted pursuant to Section 13140 of the Water Code and regulations adopted pursuant to Sections 13172 and 13173 of the Water Code. Further, the solid waste landfill used for disposal is authorized to accept the wood waste under waste discharge requirements issued by the RWQCB pursuant to Division 7 (commencing with Section 13000) of the Water Code. Forward Landfill, Kettlemen Hills, or Buttonwillow Landfill (example facilities with an appropriate licensed Class 1 or a composite-lined portion of a solid waste landfill) can be used for the disposal of the treated wood poles generated by this project. All landfills have sufficient capacity to accept this waste.

Construction debris will be picked up regularly from construction areas and stored in approved onsite containers; the debris will be hauled away for recycling or disposal periodically during construction. This general solid waste is estimated to be approximately 38 tons for PG&E's portion of the project. At construction staging areas, crews will gather and sort recyclable and salvageable materials into bins. When possible, various waste materials generated during construction will be recycled and salvaged. Salvageable items (such as useable conductor, steel, and hardware) will be taken to recycling facilities or sold through available markets. Some examples of items that may be recycled include damaged steel from pole assemblies, conductor segments, conductor reels, pallets, and broken hardware. Construction generated waste materials that cannot be reused or recycled (materials such as soil and sanitation waste) will be taken to waste management facilities for disposal. The facilities that would accept the waste for composting, recycling, or disposal have sufficient capacity to accommodate the project construction waste (refer to Table 5.19-1).

The project also will generate minimal solid waste from the food, glass, paper, plastic, and packing materials consumed by the up to approximately 40 construction workers who will be onsite at peak construction periods. Existing landfills in the project area have adequate capacity to accommodate this negligible amount of solid waste.

Because existing facilities that would accept the project construction waste streams have sufficient capacity to accommodate the project construction waste, no impacts would occur.

PG&E will comply with the San Joaquin County C&D Ordinance by planning and reporting on its reuse and recycling to divert the required amount of debris from landfill disposal. PG&E will divert 50% of all construction and demolition debris, excluding inert and organic material, and 90% of inert and organic material from the landfill through reuse and recycling. PG&E will conduct a final survey to determine whether cleanup activities have been successfully completed as required.

PG&E operation and maintenance visits will be conducted occasionally. Any small amount of solid waste generated during these activities will not impact landfill capacity. Therefore, no operations and maintenance impact to landfill capacity will occur.

LEU Potential Impact Discussion

LEU's existing wood training poles on the LEU Guild Substation site are not treated wood and will not be managed as hazardous waste. Approximately 8 yd^3 of LEU wood training poles are estimated to be removed, and all are expected to be reused or recycled.

LEU estimates that approximately 1,000 feet of 12 kV electrical conductor and four sets of metal framing will be removed from the underbuild position on PG&E Lockeford-Industrial 60 kV. Approximately 1 yd^3 of pavement will be cut and removed by LEU for the HDD excavations for its feeder line relocation. The solid waste generated for disposal or recycling by LEU's relocation of its existing 12 kV feeder line is expected be approximately 1.5 yd^3. LEU estimates approximately 400 feet of fence material (approximately 1.4 yd^3) removed from LEU Industrial Substation eastern perimeter fence will be recycled.

Construction debris including recyclables (metal poles, pole framing, fencing, and pavement), untreated wood, and clean soil will be taken to a licensed recycle facility such as North County Recycling Center and Sanitary Landfill, Foothill Sanitary Landfill, or Lovelace Materials Recovery Facility and Transfer Station. This general solid waste is estimated to be approximately 11 tons for LEU's portion of the project.

Spoils that are not useable and/or are identified as contaminated through appearance will be tested to characterize before appropriate transportation to a licensed landfill facility. Approximately 2,550 yd^3 of soils will be hauled for disposal.

The project also will generate minimal solid waste from the food, glass, paper, plastic, and packing materials consumed by the up to approximately 26 construction workers who will be onsite at peak

construction periods. Existing landfills in the project area have adequate capacity to accommodate this negligible amount of solid waste.

Because existing facilities that would accept the project construction waste streams have sufficient capacity to accommodate the project construction waste, no impacts would occur.

LEU operation and maintenance visits will be conducted occasionally. Any small amount of solid waste generated during these activities will not impact landfill capacity. Therefore, no operations and maintenance impact to landfill capacity will occur.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste? *No Impact.*

PG&E Potential Impact Discussion

PG&E will manage solid waste generated during construction and maintenance and operation of the PG&E project components by hauling to appropriate landfills as described previously. PG&E will comply with the San Joaquin County C&D Ordinance by planning and reporting on its reuse and recycling to divert the required amount of debris from landfill disposal. PG&E, or its designated and licensed hauler, will apply for a City of Lodi Industrial Waste Hauler Permit(s) as needed. PG&E will comply with all applicable federal, state, and local statutes and regulations related to solid waste. Therefore, no impact will occur.

LEU Potential Impact Discussion

LEU will manage solid waste generated during construction and maintenance and operation of the LEU project components by hauling to appropriate landfills as described previously. LEU, or its designated and licensed hauler, will apply for a City of Lodi Industrial Waste Hauler Permit(s) as needed. LEU will comply with all applicable federal, state, and local statutes and regulations related to solid waste. Therefore, no impact will occur.

5.19.4.4 Additional CEQA Impact Questions

a) Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts? *No Impact*.

PG&E Potential Impact Discussion

An increase in corrosion rate can occur with adjacent circuits through inductance, especially with direct current circuits. While inductance is not likely with this project given the type of circuit, there are circumstances where stray alternating current can cause an increase in corrosion rate. The adjacent alternating circuit lines are insulated from one another, which prevents an increase in corrosion rate. Any resulting stray alternating current from an adjacent circuit is expected to follow an alternative path than to another insulated line. There are no adjacent utility lines to which the PG&E project components would contribute an increased rate of corrosion of as a result of alternating currents during construction, operation, or maintenance. There would be no impact from the project on the rate of corrosion pertaining to adjacent utility lines.

LEU Potential Impact Discussion

There are no adjacent utility lines to which the LEU project components would contribute an increased rate of corrosion of as a result of alternating currents during construction, operation, or maintenance. Therefore, no impact would occur.

5.20 Wildfire

This section describes existing conditions and potential impacts related to wildfire as a result of construction, operation, and maintenance of the project. The analysis concludes that any impacts related to wildfire hazards and hazardous materials will be less than significant. The project's potential effects associated with wildfire were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. Project description information and potential impacts are organized and discussed by each participating utility's portion of the project. The conclusions are summarized in Table 5.20-1 and discussed in more detail in Section 5.20.3.

5.20.1 Methodology and Environmental Setting

The potential for the project's activities and equipment to pose wildfire hazards was evaluated by reviewing the following:

- Fire hazard maps, fire occurrence maps, and GIS data from CAL FIRE and CPUC
- Information provided in the Safety Elements of the San Joaquin County General Plan, Contra Costa County General Plan, and City of Lodi General Plan
- CPUC, PG&E, and LEU fire hazard rules and policies, including the current Wildfire Management Plan (WMP) from PG&E and LEU, respectively
- San Joaquin County, Contra Costa County, and City of Lodi emergency plans and evacuation routes

5.20.1.1 High Fire Risk Areas and State Responsibility Areas

The CAL FIRE FHSZ maps identify locations that are within an FRA, SRA, or LRA for preventing or suppressing fires. Within SRAs, the Director of CAL FIRE has designated areas as moderate, high, and very high FHSZs based on factors such as potential fuel sources, terrain, weather, fire behavior characteristics, burn probabilities, and the likelihood of vegetation exposure. Within LRAs, CAL FIRE has recommended areas as very high FHSZs, which may or may not be adopted by local governing agencies. The CAL FIRE maps also show FRA areas and fire hazard designations within those federal areas.

According to CAL FIRE maps, the main project components in northern San Joaquin County are located entirely within an LRA and not within an identified very high FHSZ. The nearest CAL FIRE designated very high FHSZ is located approximately 24.3 miles northeast of PG&E Structure E1 (CAL FIRE 2022a). The San Joaquin County GIS also has mapped fire severity zones and results show no portions of the project within an identified severity zone. The nearest San Joaquin County GIS-designated very high FHSZ is located approximately 38.5 miles southwest of PG&E Structure W34 (SJC GIS 2022). Three PG&E remote-end substations (Brighton, Bellota, and Rio Oso) are located within LRAs; none are within an identified very high FHSZ. PG&E Clayton Hill Repeater Station is approximately 850 feet from a southern boundary of the Black Diamond Regional Preserve, an 8,533-acre area operated by the East Bay Regional Park District (EBRPD 2020). The station is also located approximately 1.8 miles northeast of the Mount Diablo State Park boundary (Mount Diablo State Park 2018). PG&E Clayton Hill Repeater Station is located in Contra Costa County within an SRA that is identified as a high FHSZ. The nearest very high FHSZ is an isolated polygon located approximately 1 mile south of the station; the very high FHSZ associated with the higher elevation of Mount Diablo begins approximately 2 miles south-southwest of the station (CAL FIRE 2022a).

The CPUC has adopted fire hazard mapping most recently with its High Fire-Threat Map in 2021, which designates fire-threat areas that require enhanced fire safety. Other than PG&E Clayton Hill Repeater Station within Tier 2 – Elevated, the project components are located outside of any mapped fire hazard zones (areas of fire hazard also are categorized by HFTD) on the CPUC's High Fire-Threat Map. For the main project components within northern San Joaquin County, the nearest CPUC-designated Tier 3 Extreme fire zone is located approximately 42.5 miles northeast of PG&E Structure E1 (CPUC 2021).

Fire protection services and equipment relevant to this project are discussed in detail in this Proponent's Environmental Assessment (PEA) in Section 5.15, Public Services.

PG&E has not independently identified a high FHSZ known to occur within the project vicinity.

5.20.1.2 Fire Occurrence

The *Guidelines for Energy Project Applications Requiring CEQA Compliance: Pre-filing and Proponent's Environmental Assessments*, published by the CPUC, request projects identify large fires that have occurred within the project vicinity during the last 10 years. The "project vicinity" for this project is 5 miles from project components, given the setting of LRAs and not being located within a very high FHSZ. The National Wildfire Coordinating Group (NWCG), a federal government working group that coordinates wildfire term standardization, provides the following definition of a "large fire": "(1) A fire burning more than a specified area of land, e.g., 300 acres for statistical purposes, and (2) A fire burning with a size and intensity such that its behavior is determined by interaction between its own convection column and weather conditions above the surface." (NWCG 2022) PG&E also defines a "large fire" as, "A fire that burns 300 or more acres but does not meet the definition of a Destructive or Catastrophic fire." A "Destructive or Catastrophic fire" is defined as, "A fire that destroys 100 or more structures and a serious injury and/or fatality does not result or does result, respectively." (PG&E 2022)

CAL FIRE's incident reporting data only go back to 2013, fewer than10 years prior to this document. According to CAL FIRE incident reporting (CAL FIRE 2022b) and the CAL FIRE *Perimeters 1950+* dataset (CAL FIRE 2022c), within the past 10 years no wildfire incidents greater than 300 acres were reported within 5 miles of the project in northern San Joaquin County or PG&E Brighton or Rio Oso substations (CAL FIRE 2022b, 2022d). Five large fires occurred within 5 miles of project components with only one destroyed structure reported. None of these historic fires meet the PG&E definitions of Destructive or Catastrophic. Two large fires have a perimeter edge at approximately 5 miles from PG&E Bellota Substation. In 2013, the Shelton Fire off North Shelton Road in the Linden Peters area burned 303 acres, starting from an unknown cause. The cause is also unknown for the Waverly Fire off North Waverly Road and North Shelton Road that burned 12,300 acres and destroyed one structure in 2018.

Three large fires occurred within 5 miles of PG&E Clayton Hill Repeater Station. In 2013, the Kirker Fire burned 478 acres. The nearest fire perimeter was 1.80 miles from the station and the fire cause is listed as a powerline. Also in 2013, the Morgan Fire, with a miscellaneous cause, burned 3,108 acres with the nearest fire perimeter at 2.60 miles from the station. In 2019, arson is listed as the cause for the Marsh Creek 3 Fire of 340 acres, which was 4.97 miles from the station at its closest fire point.

5.20.1.3 Fire Risk

Fuel modeling and digital elevation models were not prepared because of the main portion of the project's location within a low fire risk area and being surrounded mainly by agricultural fields or industrial use. Additionally, project-related work at PG&E remote-end stations is either in a low fire risk area or will occur within a paved station, using paved access, and will not include "hot" work. A summary of the average wind direction and speed, relative humidity, temperature, elevation, terrain, and vegetation is provided for the main portion of the project followed by the PG&E remote-end stations. Historic weather data, including hourly records from January 1, 1980, to December 31, 2016, are used to provide an estimated value for the main portion of the project and each PG&E remote-end station (Weather Spark 2022a).

In the main portion of the project, mid-April through early September is the windier part of the year, with average wind speeds of more than 6.9 mph, peaking in June with an average hourly wind speed of approximately 8.2 mph. From early September to mid-April, wind is calmer with an average hourly wind speed of approximately 5.7 mph in October. The wind is most often from the west between late February and late November. From late November to late February, the wind is most often from the south. During hot afternoons when the air is extremely dry, relative humidity generally is less than 20%. The annual normal relative humidity is approximately 63%. The average daily high temperature is greater than 85°F for June through September. July typically is the hottest month of the year, with an average high of 93°F

and low of 60°F. The cool season typically occurs from late November to mid-February, with an average daily high temperature less than 61°F. The coldest month of the year is December, with an average low of 40°F and high of 55°F (Weather Spark 2022a, NCEI 2022a).

The topography in the area generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end to approximately 60 feet above sea level at the western end of the main portion of the project. Northern San Joaquin County is predominantly agricultural, with retail wineries, rural and semirural residential development outside of the City of Lodi, and small, concentrated areas of industrial and commercial business along transportation corridors. The majority of upland habitat observed throughout the project's study area is either hardscaped or otherwise developed/landscaped, agricultural land, or is disturbed habitat consisting of primarily ruderal or non-native species. Vegetation in the project area consists primarily of agriculture; landscaping associated with residences or businesses; riparian habitat associated with creeks and streams; annual grasslands in pastures along roadsides and in other undeveloped, disturbed areas; and ruderal habitat in highly disturbed areas, including along linear infrastructure and at the edges of hardscape development.

Around PG&E Bellota Substation, mid-April to early September is the windier part of the year, with average wind speeds of more than 6.4 mph, peaking in June with an average hourly wind speed of approximately 7.7 mph. From early September to mid-April, wind speed is calmer, with average hourly wind of approximately 5.3 mph in October. The wind is most often from the west from late February to late November. The wind is most often from the south from late November to late February. During typical hot afternoons in summer months when the air is extremely dry, relative humidity generally is less than 20%. The annual normal relative humidity is approximately 63%. From early June to late September, the average daily high temperature is greater than 86°F, with the hottest month typically being July, with an average high of 94°F and low of 62°F. From late November to mid-February, the average daily high temperature is less than 62°F, with the colder month typically being December at an average low of 40°F and high of 55°F (Weather Spark 2022b, NCEI 2022a). The topography in the area generally is flat with rolling hills increasing to the east. Elevation within the substation is approximately 170 feet above sea level. The vegetation surrounding the substation is agricultural.

Around PG&E Brighton Substation, mid-April to early September is the windier part of the year, with average wind speeds of more than 6.5 mph, peaking in July with an average hourly wind speed of approximately 7.5 mph. Early September to mid-April has an average hourly wind speed of approximately 5.5 mph. The direction of the wind is variable. The wind is most often from the south from early February to late March, from late June to early September, and from late October to early November. The wind is most often from the west from late March to late June and again from early September to late October. The wind is most often from the north from early November to early February. During typical hot afternoons in summer months when the air is drier, relative humidity will range between approximately 54% and 58%, increasing to a range of approximately 64% to 84% in the wetter months. The annual normal relative humidity is approximately 68%. From early June to late September, the average daily high temperature is greater than 85°F, with July typically being the hottest month with an average high of 92°F and low of 59°F. Late November to mid-February has an average daily high temperature less than 61°F. December typically is the coldest month, with an average low of 40°F and high of 55°F (Weather Spark 2022c, NCEI 2022b). The topography in the area generally is flat with rolling hills increasing to the east. Elevation at the substation is approximately 40 feet above sea level. Landscaping vegetation surrounds the substation perimeter wall, which is immediately adjacent to multilane roads, transit, and commercial uses.

Around PG&E Rio Oso Substation, mid-November to mid-April is the windier part of the year, with average wind speeds of more than 5.9 mph, peaking in February with an average hourly wind speed of approximately 6.4 mph. Mid-April to mid-November has an average hourly wind speed of approximately 5.4 mph. The direction of the wind is variable. The wind is most often from the south from early February to late March, from late June to early September, and from late October to early November. The wind is most often from the south from February through early December. The wind is most often from the east from early December through January. During typical hot afternoons in summer months when the air is

drier, relative humidity will range between approximately 54% and 58%, increasing to a range of approximately 64% to 84% in the wetter months. The annual normal relative humidity is approximately 68% (Weather Spark 2022d, NCEI 2022b). The topography in the area generally is flat with rolling hills increasing to the northeast. Elevation within the substation is approximately 65 feet above sea level. The vegetation surrounding the substation is agricultural.

Around PG&E Clayton Hill Repeater Station, mid-April to mid-September is the windier part of the year, with average wind speeds of more than 8.6 mph, peaking in July with an average hourly wind speed of 10.4 mph. Mid-September to mid-April has an average hourly wind speed of 6.7 mph. Wind is most often from the west between mid-February to mid-November. Wind is from the north during mid-November to mid-February (Weather Spark 2022e). The average relative humidity is 60% (NWS 2022a). The general topography in the area is rolling hills to the north of Mount Diablo. Elevation within the station fence line is approximately 1,880 feet above sea level. The station is located on a ridgeline with slopes to the north and south. The oak woodland slope to the north is approximately 20%. The grassland slope to the south is approximately 30%.

5.20.1.4 Values at Risk

In addition to intrinsic value, identification of values at risk in the project area is informed by location within or near Wildland Urban Interface (WUI) zones, biological resources, communities, and other population centers.

Wildland Urban Interface. The Wildland Urban Interface (WUI) is the zone of transition between unoccupied land and human development. It is the line, area, or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels. Communities adjacent to and surrounded by wildland are at varying degrees of risk from wildfires (U.S. Fire Administration 2022). Three types of WUI are identified by CAL FIRE: Interface, Intermix, and Influence zones (CAL FIRE 2019a, 2019b). The three WUI definitions may include reference to a Housing Density Class:

1. Less than 1 house per 20 acres
2. 1 house per 20 acres to 1 house per 5 acres
3. More than 1 house per 5 acres to 1 house per acre
4. More than 1 house per acre

The Wildfire Interface Zone of WUI is dense housing adjacent to vegetation that can burn in a wildfire; it must meet these criteria:

- Housing Density Class 2, 3, or 4
- In moderate, high, or very high FHSZ
- Not dominated by wildland vegetation (i.e., lifeform not herbaceous, hardwood, conifer, or shrub)
- Spatially contiguous groups of 30-meter cells that are 10 acres and larger

The Wildfire Intermix Zone of WUI is housing development interspersed in an area dominated by wildland vegetation subject to wildfire; it must meet these criteria:

- Not in a Wildfire Interface Zone
- Housing Density Class 2
- Housing Density Class 3, 4 dominated by wildland vegetation
- In moderate, high, or very-high FHSZ
- Improved parcels only
- Spatially contiguous groups of 30-meter cells that are 25 acres and larger

The Wildfire Influence Zone is wildfire-susceptible vegetation; it must meet this criterion:

- Wildland vegetation up to 1.5 miles from Wildfire Interface or Intermix zones

The new PG&E 230 kV transmission line is within areas of Wildfire Influence Zone for structures E1, E2, E3, E6, E7, E9, and E12 and potential Staging Areas 6 and 7. Structure E13 just east of North Tully Road is within the Wildfire Intermix Zone. Within the City of Lodi, the new LEU Guild Substation, PG&E Thurman Switching Station, and adjacent potential Staging Area 3, as well as the interconnecting 60 kV and 230 kV lines, are within the Wildfire Intermix Zone when west of South Guild Avenue, north of East Thurman Road, and south of the railroad tracks south of East Lodi Avenue. The existing PG&E 60 kV lines to the north of LEU's Industrial Substation are not within a WUI zone. The warehouse building to the east of South Guild Avenue is identified as the Wildfire Intermix Zone but not the paved area to the immediate north of the building where project work will occur to relocate the existing LEU service line, remove the existing PG&E 60 kV line, and install the new PG&E 230 kV line. No other project components within northern San Joaquin County intersect with WUI zones (refer to Figure 5.20-1).

PG&E Rio Oso and Brighton substations are not located in a WUI zone. PG&E Bellota Substation is located within a Wildfire Influence Zone with no WUI zone to the immediate south of the station fence line. PG&E Clayton Hill Repeater Station is mainly outside of a WUI zone. The Wildfire Influence Zone to the southwest has a stairstep polygon edge that overlaps with the southwest corner of the paved PG&E station footprint.

Unincorporated San Joaquin County includes four communities identified as Communities at Risk for wildland fire because of their locations near areas susceptible to potential wildfires: Bellota, Clements, Linden, and Lockeford (San Joaquin County 2016). The project does not intersect these communities, which are identified by their location within WUIs. The new PG&E transmission line alignment is approximately 2.00 miles south of the community of Lockeford and approximately 4.50 miles south of the community of Clements. PG&E project work will occur within the existing fence line of PG&E Bellota Substation, which is approximately 2.50 miles south of the community of Bellota, and approximately 3.75 miles east of the community of Linden.

Communities near the main portion of the project are identified in Sections 5.11 and 5.14 and are shown on Figures 5.11-2 and 5.11-4. These communities include structures and other improvements (including PG&E infrastructure) that could be potentially at risk from wildfire. The western portion of the project is located within an industrial area of the City of Lodi. Within approximately 1,000 feet of the LEU portion of the project, industrial buildings are located to the north, west, south, and east. To the northeast of the LEU portion of the project is a cemetery with a manicured lawn. All new poles within the LEU substations will be all-steel poles. City of Lodi residential zoning and land use begins approximately 0.5 mile west of the project across SR 99.

Outside of the City of Lodi in San Joaquin County, land use includes residential and other structures in the predominantly agricultural zoning and agricultural designated land use. Sensitive receptors, which are another proxy for structures, are shown on Figure 5.3-1 and Figure 5.13-1. The vulnerability of these structures and improvements is typical for the region and is dependent on the age of the structures and improvements and their physical siting. There is no rare habitat adjacent to the PG&E or LEU portions of the project in northern San Joaquin County.

Existing land use and zoning adjacent to PG&E Brighton Substation in the City of Sacramento includes manufacturing, research and development, commercial, residential, and park/open space (City of Sacramento 2022). PG&E Bellota and Rio Oso substations are located in agriculture use areas with some rural residences, with residential and other community structures beginning approximately 3.75 miles west in Linden and 3 miles west in Rio Oso, respectively. Residential use in the City of Clayton begins approximately 1.5 mile to the west of PG&E Clayton Hill Repeater Station. The vulnerability of these structures and improvements is typical for these regions and is dependent on the age of the structures and improvements and their physical siting. PG&E remote-end substations, including PG&E Clayton Hill Repeater Station (Jones and Stokes 2006), are not adjacent to rare habitat.

5.20.1.5 Evacuation Routes

Evacuation routes adjacent to or within the project area are described in the context of County and city plans for the main project components within northern San Joaquin County. Evacuation from PG&E remote-end substations (Bellota, Brighton, and Rio Oso) would begin by exiting the station to the paved road adjacent to the station in Linden, Sacramento, or Rio Oso, respectively, and evacuation would continue from the station at the direction of emergency personnel. Evacuation by vehicle from PG&E Clayton Hill Repeater Station in Contra Costa County would likely follow the paved access road to Nortonville Road; however, evacuation routes could include fire roads in the vicinity if identified for use by emergency personnel. Contra Costa County does not identify specific evacuation routes in its emergency operation plan (Contra Costa County 2005, Contra Costa County 2018). Contra Costa County communicates evacuation information, including routes, using an alert system by zone through Zonehaven Aware at https://cwsalerts.com/know-your-zone/. PG&E Clayton Hill Repeater Station is within CCC-E232 (Contra Costa County 2022).

San Joaquin County Emergency Operations Plan and Evacuation Routes

The *San Joaquin County Emergency Operations Plan* is an all-hazards document describing the County's incident management structure, compliance with relevant legal statutes, other relevant guidelines, whole community engagement, continuity of government focus, and critical components of the incident management structure. The plan establishes a County incident management structure, establishes the overall operational concepts, and provides a flexible platform for planning and response to hazards, incidents, events, and emergencies (San Joaquin County OES 2022a).

The *San Joaquin County Emergency Operations Plan* identifies major transportation routes throughout the County that would be used by both County residents and tourists as possible evacuation routes in the event of an emergency. Included in these major transportation routes are SR 99, SR 12, and SR 88, which are located in the project vicinity and would serve as emergency routes for the project (San Joaquin County OES 2022a). The County describes preparation for potential evacuation from fire and provides resources for receiving alerts and incident information from the County and CAL FIRE (San Joaquin County OES 2022b). Evacuation maps and rally points focused on potential flooding are prepared for populated areas in the County. Project activities within and near the City of Lodi would be within the Lodi Beckman Road Zone. Victor Road (SR 12), SR 99, and East Kettleman Lane are identified as vehicle evacuation routes (SJC GIS 2011). These roadways have multiple points of access.

Secondary roadways that may be used by project personnel and the public include Beckman Road, East Pine Street, East Lodi Avenue, South Guild Avenue, East Sargent Road, Curry Avenue, East Harney Lane, Alpine Road, North Locust Tree Road, North Jack Tone Road, North Tully Road, Atkins Road, and Clements Road. Each of these roadways has multiple points of access. Additionally, the project area includes numerous small agricultural roads and project access roads through generally flat terrain that may be used in the event of an emergency.

City of Lodi Evacuation Routes

The City of Lodi provides street standards for all street types to ensure appropriate standards for emergency access and evacuation. Therefore, all streets have the potential to be used as evacuation routes when the standards are met. The *City of Lodi General Plan* gives the following example when discussing evacuation routes and safety standards:

"For example, the standards specify roadway widths of 30 feet (curb-to-curb) for minor residential streets and 52 feet for major collector streets." (City of Lodi 2010).

The City of Lodi's *Experience Lodi Emergency Evacuation Maps* information connects to the San Joaquin County emergency evacuation maps for potential flooding (City of Lodi 2022).

5.20.1.6 Utility Wildfire Mitigation Plans

PG&E Wildfire Mitigation Plan

PG&E has developed a *Wildfire Mitigation Plan Report* that is designed to reduce wildfire ignition potential, enhance wildfire situational awareness, and reduce impacts of public safety power shutoff (PSPS) events. An annual implementation report and an annual plan update are submitted to the CPUC. The July 2022 *Wildfire Mitigation Plan Report* continues many of the actions undertaken in the 2019, 2020, and 2021 plans and introduces and updates initiatives to advance wildfire mitigation (PG&E 2022).

PG&E's risk management program enables PG&E to: (1) identify those risks that could lead to catastrophic safety consequences; (2) implement the actions that have the highest and most cost-effective potential to reduce risk; and (3) transparently monitor and report results. Using this risk management approach, PG&E's WMP is spatially targeted for HFTD locations that are set by CPUC Fire Threat Maps. Approximately 99% of PG&E's wildfire risk is located in the HFTD Tier 3 and Tier 2 areas, even though only 32% of risk events occur inside the HFTD.

Sections 5.4 and 9.5 of the PG&E *Wildfire Mitigation Plan Report* detail planning and operational models and methodologies used to determine ignition probability, wildfire risk, and PSPS risk (PG&E 2022). In PG&E's *Wildfire Mitigation Plan Report*, transmission is defined as being 60 kV or greater. When PG&E components are placed into service, the PG&E facilities will be added to the relevant planning models. The current compilation of planning and operational models for transmission facilities include:

- Planning: 2022 Enterprise Risk Model for Wildfire Risk, a bow tie-based wildfire risk model for a distribution and transmission system
- Planning: Wildfire Transmission Risk Model, a wildfire risk-based model for an overhead transmission system. This model is also known as the Transmission Composite Model.
- Planning: Wildfire Consequence Model, a wildland fire simulation model to estimate propagation and consequences of ignitions
- Planning: Enhanced Vegetation Management Tree Weighted Prioritization Model, a wildfire risk-based model incorporating tree density for overhead distribution circuit segments for the purpose of enhanced vegetation management scoping and prioritization
- Operational: Fire Potential Index Model, a model that provides estimates of the probability of large or catastrophic fire growth; used to identify real-time and near-term forecasted risk based on various weather and fuel components
- Operational: Ignition Probability Weather Model, a model that provides estimates of the probability of an ignition given an outage on an hourly basis
- Operational/Planning: Transmission Operability Assessment Model, a model used to assess the physical condition of transmission facilities for operational and planning decisions
- Planning: Public Safety Power Shutoff Consequence Model, a model that projects the impacts and benefits of performing PSPS activities at the circuit or circuit segment level (formerly known as Circuit Protection Zones)

PG&E implements its plan through standards and requirements that are communicated internally to employees and to its suppliers, contractors, and third-party employees to follow when traveling to, performing work, or operating outdoors on any forest, brush, or grass-covered land. PG&E's Wildfire Prevention Contract Requirements are based on its Standard TD-1464S (PG&E 2021). The summary of PG&E's current wildfire prevention standards and requirements may be superseded in the future following revisions to published standards and requirements.

PG&E monitors and communicates fire risk at least daily using a set of utility fire potential index (FPI) ratings from its Fire Potential Index Model, which help determine the risk of fire and its likely behavior. Its

calculation and scale from R1 to R5-Plus considers fuel, moisture, humidity, wind speed, air temperature, and historical fire occurrence. These ratings are as follows:

- R1: Very little or no fire danger.
- R2: Moderate fire danger.
- R3: Fire danger is so high that care must be taken using fire-starting equipment. Local conditions may limit the use of machinery and equipment to certain hours of the day.
- R4: Fire danger is critical. Using equipment and open flames is limited to specific areas and times.
- R5: Fire danger is so critical that using some equipment and open flames is not allowed in certain areas.
- R5-Plus: The greatest level of fire danger where rapidly moving, catastrophic wildfires are possible. When fire danger is R5-Plus, there are high-risk weather triggers (e.g., strong winds).

Other than PG&E Clayton Hill Repeater Station, the project components are not located in an area identified by the FPI as a fire index area (FIA). The nearest FIA to the main project area is approximately 5.75 miles northeast of the eastern extent of the project where the new PG&E transmission line begins.

For work areas located farther than 5 miles from an FIA that have an elevated FPI rating (R4, R5, or R5-Plus), general fire mitigations apply. NWS Red-Flag Warnings and Fire Weather Watch events are mitigated as though work is within an FIA with an R5 rating. For R5 and R5-Plus ratings, additional mitigation includes a dedicated fire watch at the jobsite, a trailer-mounted water tank or alternative water delivery method at the jobsite, modifying the fuel sources surrounding the jobsite should be considered, and suspending all planned work during an R5-Plus fire rating. For all emergency work being performed during an R5-Plus fire rating, personnel must have a PG&E Safety and Infrastructure Protection Team on standby or a 300-gallon water tender available. Use of heavy equipment (blades, dozers, skid steers, excavators, back hoes), construction hot work, and electrical equipment work (including tasks related to conductors, or pole and overhead equipment from which a spark, fire, or flames may originate) are allowed with the R5 mitigations in place but not allowed during R5-Plus conditions. Additional details for specific conditions and standards and requirements for work at PG&E Clayton Hill Repeater Station can be found with the Wildfire Prevention Contract Requirements, which will be incorporated into a PG&E *Construction Fire Prevention Plan*.

LEU Wildfire Mitigation Plan

LEU has developed a WMP to describe LEU's programs, practices, and measures in place, which effectively reduce the probability that LEU's electric supply system could be the origin or contributing source for the ignition of a wildfire; and to operate the electric system safely when in high wildfire risk conditions. LEU's annual update version 3.0 was issued December 1, 2021 (LEU 2021, 2022).

5.20.2 Regulatory Setting

The following subsections contain an overview of regulations related to wildfires and associated hazards.

5.20.2.1 Federal

No federal regulations regarding wildfires apply to this project.

5.20.2.2 State

California Department of Forestry and Fire Protection

Pursuant to PRC Sections 4201 to 4204 and GC Sections 51175 to 51189, CAL FIRE created FHSZ maps for the state that identify areas for preventing or suppressing fires that are within SRAs or LRAs. These

maps identify areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors. The FHSZs then define the application of various mitigation strategies to reduce risks associated with wildland fires. The financial responsibility for preventing and suppressing fires in SRAs has been determined to be primarily on the state (PRC Section 4201) and the financial responsibility of preventing and suppressing fires in LRAs is primarily on local agencies, including cities and counties (GC Sections 51175 to 51189). SRAs were originally mapped by CAL FIRE in 1985 and LRAs were mapped in 1996. The CAL FIRE maps also show FRAs and fire hazard designations within those federal areas.

Within SRAs, the Director of CAL FIRE has designated areas as moderate, high, and very high FHSZs (PRC Section 4202). Within LRAs, the Director of CAL FIRE was charged with recommending the locations of very high FHSZs (GC Section 51178). These recommendations were to be reviewed and adopted in ordinances by local agencies (GC Section 51179), although not all local agencies have complied. All designations are mapped on the CAL FIRE website.

California Senate Bill 901

Passed in 2018, SB 901 adopted new provisions of California Public Utilities Code Section 8386 requiring all electric utilities to prepare, submit, and implement annual WMPs. These plans describe the utilities' strategies to construct, operate, and maintain their electrical lines and equipment in a manner that will help minimize the risk of catastrophic wildfires associated with those electrical lines and equipment.

Rules for Overhead Electric Line Construction

General Order 95 from the CPUC regulates all aspects of design, construction, and operations and maintenance (O&M) of electrical power lines and fire safety hazards for utilities subject to its jurisdiction.

On February 5, 2014, the CPUC adopted its Decision Adopting Regulations to Reduce the Fire Hazards Associated with Overhead Electric Utility Facilities and Aerial Communications Facilities (Decision 14-02-015). In addition to updating various requirements of General Order 95 and ordering further study, the decision called for creation by the CPUC of a High Fire-Threat District Map identifying zones of high hazard, elevated risk, and extreme risk for destructive utility-associated wildfires.

In January 2018, the CPUC adopted its High Fire-Threat District Map, which designates three areas where there is an increased risk from wildfires: Tier 3 (extreme fire risk), Tier 2 (elevated fire risk), and Zone 1 (CAL FIRE Tree Mortality High Hazard Zone Tier 1, not included in Tier 3 or Tier 2). Tier 2 fire-threat areas are where there is an elevated risk (including likelihood and potential impacts on people and property) from utility-associated wildfires. Tier 3 fire-threat areas are where there is an extreme risk (including likelihood and potential impacts on people and property) from utility-associated wildfires (CPUC 2021). These CPUC designations do not replace CAL FIRE's FHSZs.

On October 25, 2018, the CPUC entered an Order Instituting Rulemaking to Implement Electric Utility Wildfire Mitigation Plans Pursuant to SB 901 (2018), R.18-10-007, facilitating SB 901's requirement that PG&E and other utilities submit WMPs. PG&E submitted its Amended 2019 Wildfire Safety Plan on February 6, 2019 (PG&E 2019), which "… describes the enhanced, accelerated, and new programs that PG&E is and will aggressively continue to implement to prevent wildfires in 2019 and beyond." On February 7, 2020, PG&E submitted its updated 2020 WMP. On February 5, 2021, PG&E submitted its updated 2021 WMP. On November 1, 2021, Change Orders for the 2021 WMP (Docket #2021-WMPs) were submitted to the CPUC. On February 25, 2022, PG&E submitted its updated 2022 *Wildfire Mitigation Plan Update* before submitting its 2022 *Wildfire Mitigation Plan Update Revised* on July 26, 2022 (PG&E 2022). The State of California Office of Energy Infrastructure Safety approved the revised plan on November 10, 2022.

Similarly, in 2019, LEU completed its inaugural WMP and third-party independent evaluation pursuant to SB 901. The Plan and Independent Evaluation were adopted by City Council on November 20, 2019. LEU has conducted annual updates of this plan. LEU's 2020 update was accepted by City Council on December 22, 2020; LEU's 2021 update was accepted by City Council on December 1, 2021 (LEU 2021, 2022).

California Public Resources Code, Section 8387 (Wildfire Mitigation)

Under subsection (a) of PRC Section 8387, each local publicly owned electric utility will construct, maintain, and operate its electrical lines and equipment in a manner that will minimize the risk of wildfire posed by those electrical lines and equipment. Under subsection (b)(1) of PRS Section 8387, the local publicly owned electric utility will prepare a WMP before January 1, 2020. After January 1, 2020, a local publicly owned electric utility will prepare a WMP annually and will submit the plan to the California Wildfire Safety Advisory Board on or before July 1 of that calendar year. The plan will be updated annually and submitted to the California Wildfire Safety Advisory Board by July 1 of each year. At least once every three years, the submission will be a comprehensive revision of the plan.

5.20.2.3 Local

Because the CPUC has exclusive jurisdiction over project siting, design, and construction, PG&E's portion of the project is not subject to local (city and county) discretionary regulations except for air districts and CUPAs with respect to air quality and hazardous waste regulations. However, local plans and policies are considered for informational purposes and to assist with the CEQA review process.

The City of Lodi is a local agency and must comply with its own local plans and policies.

Refer to Section 5.9, Hazards, Hazardous Materials, and Public Safety, of this PEA for an overview of local emergency response plans.

San Joaquin County General Plan 2035 Public Health and Safety Element

The *San Joaquin County General Plan* includes a Public Health and Safety Element with goals and policies to minimize the risk of wildland and urban fire hazards. It establishes the following goal:

"GOAL PHS-4.6: The County shall encourage well-organized and efficient coordination among fire agencies, CAL FIRE, and the County."

The San Joaquin County Natural Hazard Disclosure Information includes mapping of the moderate, high, and very high FHSZs, as well as mapping of the Wildland Fire Responsibility Areas, consistent with the areas designated by CAL FIRE's mapping. The Public Health and Safety Element uses the local hazard mitigation plan and existing data on wildland and urban fire hazards to guide new development and to help reduce damage from fire hazards.

City of Lodi General Plan Safety Element

The City of Lodi is not characterized by substantial areas of wildland fire. However, the *City of Lodi General Plan* includes a Safety Element with policies to minimize the risk of wildland and urban fire hazards. It establishes the following policy:

"S-G4: Minimize vulnerability of infrastructure and water supply and distribution systems."

5.20.3 Impact Questions

The project's potential effects on wildfire resources were evaluated using the significance criteria set forth in Appendix G of the CEQA Guidelines. The criteria and conclusions are summarized in Table 5.20-1 and discussed in more detail in Section 5.20.4.

Table 5.20-1. CEQA Checklist for Wildfire

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

5.20.3.1 Additional CEQA Impact Questions

None.

5.20.4 Potential Impact Analysis

Project impacts related to wildfire were evaluated against the CEQA significance criteria and are discussed in the following sections. The impact analysis evaluates potential project impacts during the construction phase and the O&M phase. The impact discussion is organized to describe the effects of each participating utility's portion of the project on the environment.

5.20.4.1 Significance Criteria

According to Section 15002(g) of the CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the proposed project." As stated in Section 15064(b) of the CEQA Guidelines, the significance of an activity may vary with the setting. Per Appendix G of the CEQA Guidelines, the potential significance of project impacts related to wildfires was evaluated for each of the criteria listed in Table 5.20-1, as discussed in Section 5.20.4.3.

5.20.4.2 Applicant-Proposed Measures and Best Management Practices

PG&E and LEU will implement their respective APMs and BMPs as follows:

APM WFR-1: PG&E Construction Fire Prevention Plan. A project-specific *Construction Fire Prevention Plan* for construction of the project will be prepared prior to initiation of construction by PG&E. The PG&E plan

will be approved by the CPUC and the local fire agencies with jurisdiction over the areas where the project is located at least 90 days prior to the initiation of construction activities in areas designated as very high or high FHSZs. Plan reviewers also will include federal, state, or local agencies with jurisdiction over areas where the project is located. The final plan will be approved by the CPUC at least 30 days prior to the initiation of construction activities. The plan will be fully implemented throughout the construction period, and it will include the following at a minimum:

- The purpose and applicability of the plan
- Incorporation of the requirements in PG&E's current Utility Standard for *Preventing and Mitigating Fires While Performing PG&E Work*
- Responsibilities and duties for compliance
- Preparedness training and drills
- Procedures for fire reporting, response, and prevention that include:
    - Identification of daily site-specific risk conditions
    - The tools and equipment needed on vehicles and on hand at sites
    - Reiteration of fire prevention and safety considerations during tailboard meetings
    - Daily monitoring of the Red-Flag Warning System with appropriate restrictions on types and levels of permissible activity
- Coordination procedures with federal, state, and local fire officials
- Crew training, including the construction fire prevention practices described in APM WFR-2
- Method(s) for verifying that all plan protocols and requirements are being followed

A project Fire Marshal or similar qualified person will be responsible for training project personnel and enforcing all provisions of the *PG&E Construction Fire Prevention Plan,* as well as performing other duties related to fire detection, prevention, and suppression for the project. Construction activities will be monitored to ensure implementation and effectiveness of the plan.

BMP WFR-1: LEU Construction Fire Prevention Plan. A project-specific *Construction Fire Prevention Plan* for construction of the project will be prepared prior to initiation of construction by LEU. The plan will be provided to the City of Lodi Fire Department, which has jurisdiction over the area where LEU's project activities are located, none of which are within very high or high FHSZs. The plans will be provided to the department at least 90 days prior to the initiation of construction activities for review and approval. The plan will be fully implemented throughout the construction period, and it will include the following at a minimum:

- The purpose and applicability of the plan
- Incorporation of the requirements in LEU's current WMP
- Responsibilities and duties for compliance
- Preparedness training and drills
- Procedures for fire reporting, response, and prevention that include:
    - Identification of daily site-specific risk conditions
    - The tools and equipment needed on vehicles and on hand at sites
    - Reiteration of fire prevention and safety considerations during tailboard meetings
    - Daily monitoring of the Red-Flag Warning System with appropriate restrictions on types and levels of permissible activity

- Coordination procedures with federal, state, and local fire officials
- Crew training, including the construction fire prevention practices described in BMP WFR-2
- Method(s) for verifying that all plan protocols and requirements are being followed

A project Fire Marshal or similar qualified person will be responsible for training project personnel and enforcing all provisions of the *LEU Construction Fire Prevention Plan,* as well as performing other duties related to fire detection, prevention, and suppression for the project. Construction activities will be monitored to ensure implementation and effectiveness of the plan.

APM WFR-2: PG&E Fire Prevention Practices. PG&E will implement the following fire prevention practices at active construction sites and during maintenance activities:

- Existing PG&E personnel conducting maintenance on the project are trained on the PG&E Utility Standard TD-1464S for *Preventing and Mitigating Fires While Performing PG&E Work* and will follow the standard in regard to training, preparation, communication methods and means, observations of and alerts concerning weather conditions including NWS events, and PG&E's work restrictions and fire mitigation required for elevated PG&E utility FPI ratings (R4, R5, or R5-Plus).
- Construction personnel will be trained in fire-safe actions, including PG&E's current Utility Standard for Preventing and Mitigating Fires While Performing PG&E Work, Wildfire Prevention Contract Requirements, and the project's PG&E Construction Fire Prevention Plan concerning initial attack, firefighting, and fire reporting. Construction personnel will be trained and equipped to extinguish small fires to prevent them from growing into more serious threats.
- All construction personnel will carry a laminated card and be provided a hard hat sticker that list pertinent telephone numbers for reporting fires and define immediate steps to take if a fire starts. Information on laminated contact cards and hard hat stickers will be updated as needed and redistributed to all construction personnel prior to the day the information change goes into effect.
- PG&E will coordinate with the applicable local fire departments prior to construction activities to determine the appropriate amounts of fire equipment to be carried on vehicles and, should a fire occur, to coordinate fire suppression activities as part of the PG&E Construction Fire Prevention Plan review.
- Construction personnel will have fire suppression equipment on all construction vehicles and will be required to park vehicles away from dry vegetation. Water tanks and/or water trucks will be sited or available at active project sites for fire protection during construction.
- All construction crews and inspectors will be provided with radio and cellular telephone access that is operational in all work areas and access routes to allow for immediate reporting of fires. Communication pathways and equipment will be tested and confirmed operational each day prior to initiating construction activities at each work site. All fires will be reported to the fire agencies with jurisdiction in the area immediately upon discovery of the ignition.
- While performing stationary ground-level jobs or activities from which a spark, fire, or flame may originate (for example, welding, cutting, grinding), all flammable material (for example, grass, leaf litter, dead or dying tree) must be removed down to the mineral soil around the operation for a minimum of 10 feet.
- PG&E General Requirements for wildfire mitigation (R1 to R3) apply for PG&E work areas located farther than 5 miles from an FIA when the nearest FIA has an elevated FPI rating (R4, R5, or R5-Plus), except during NWS Red-Flag Warnings and Fire Weather Watch events when R5 mitigations would apply.
- At PG&E's Clayton Hill Repeater Station, which is within an FIA, during Red-Flag Warning and Fire Weather Watch events, as issued by the NWS, and elevated PG&E utility FPI rating (R4, R5, or R5-Plus), all construction activities will refer to the current PG&E Standard TD-1464S and related

requirements such as PG&E Wildfire Prevention Contract Requirements, Attachment 1 – Wildfire Mitigation Matrix, and Attachment 2 – Wildfire Risk Checklist Fire Mitigations. With increased potential fire risk of R4, additional water resources are required and a working fire watch is assigned to be able to continue work as long as the weather conditions are evaluated to ensure it remains safe to continue work.

- For R5 and R5-Plus ratings, mitigation beyond R1 to R4 levels includes a dedicated fire watch at the jobsite, a trailer-mounted water tank or alternative water delivery method at the jobsite, and modifying the fuel sources surrounding the jobsite. All planned work is suspended during an R5-Plus fire rating. During all emergency work being performed for an R5-Plus fire rating, personnel must have a PG&E Safety and Infrastructure Protection Team on standby or a 300-gallon water tender available. Use of heavy equipment (blades, dozers, skid steers, excavators, back hoes), construction hot work, and electrical equipment work (including tasks related to conductors, pole, and overhead equipment from which a spark, fire, or flames may originate) are allowed with the R5 mitigations in place but not allowed during R5-Plus conditions.

BMP WFR-2: LEU Construction Fire Prevention Practices. LEU will implement the following fire prevention practices at active construction sites and during maintenance activities:

- Existing LEU personnel conducting maintenance on the project are trained on the LEU WMP and will follow the plan in regard to training, preparation, communication methods and means, observations of and alerts concerning weather conditions including NWS events, and LEU's work restrictions and fire mitigation required for elevated fire potential.
- Construction personnel will be trained in fire-safe actions, including the LEU project Construction Fire Prevention Plan, initial attack firefighting, and fire reporting. Construction personnel will be trained and equipped to extinguish small fires to prevent them from growing into more serious threats.
- All construction personnel will carry a laminated card and be provided a hard hat sticker that list pertinent telephone numbers for reporting fires and defining immediate steps to take if a fire starts. Information on laminated contact cards and hard hat stickers will be updated as needed and redistributed to all construction personnel prior to the day the information change goes into effect.
- LEU will coordinate with the City of Lodi Fire Department prior to construction activities to determine the appropriate amounts of fire equipment to be carried on vehicles and, should a fire occur, to coordinate fire suppression activities as part of the LEU Construction Fire Prevention Plan review.
- Construction personnel will have fire suppression equipment on all construction vehicles and will be required to park vehicles away from dry vegetation. Water tanks and/or water trucks will be sited or available at active project sites for fire protection during construction.
- All construction crews and inspectors will be provided with radio and cellular telephone access that is operational in all work areas and access routes to allow for immediate reporting of fires. Communication pathways and equipment will be tested and confirmed operational each day prior to initiating construction activities at each work site. All fires will be reported to the fire agencies with jurisdiction in the area immediately upon discovery of the ignition.
- While performing stationary ground-level jobs or activities from which a spark, fire, or flame may originate (for example, welding, cutting, grinding), all flammable material (for example, grass, leaf litter, dead or dying tree) must be removed down to the mineral soil around the operation for a minimum of 10 feet.
- The risk for potential fire hazards associated with the construction of the new substation is low because the setting has no known potential wildfire risk. Given the surrounding settings of urban development, LEU does not expect any restrictions to be used for "high-risk days." LEU will continue to comply with its 2021 WMP, as updated yearly.

5.20.4.3 Potential Impacts

As described in Chapter 3, Project Description, the project will provide a new 230 kV transmission source in northern San Joaquin County, in central California. The project includes extending an existing PG&E 230 kV transmission line through PG&E Lockeford Substation to a new PG&E Thurman Switching Station in Lodi, California, by installing new tubular steel poles and conductors for approximately 11 miles. PG&E Lockeford Substation will be expanded on existing substation property to accommodate the new 230 kV facility. PG&E Thurman Switching Station will transfer the new 230 kV source to the new adjacent LEU 230/60 kV Guild Substation. LEU Guild Substation will transfer the 60 kV power to the existing adjacent LEU 60 kV Industrial Substation, which will be modified to receive the new LEU 60 kV lines (via the new 230 kV source) and to disconnect the existing PG&E 60 kV sources. When disconnected, the three existing PG&E 60 kV lines will be partially removed and reconfigured mainly within their existing alignments to continue operation between PG&E Lockeford and Lodi substations. LEU distribution and the third-party telecommunication underbuild on PG&E 60 kV line portions being removed will be relocated by the respective utility owner to within or adjacent to other existing alignments. An existing PG&E distribution line will be extended underground approximately 500 feet in franchise to provide a permanent secondary service line to PG&E Thurman Switching Station. PG&E project-related work to update communication between facilities and the protection scheme system also will occur within the existing fence lines of remote-end substations Brighton, Bellota, Lodi, and Rio Oso, and a communication facility, Clayton Hill Repeater Station.

a) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan? *No Impact.*

PG&E Potential Impact Discussion

The PG&E project components within northern San Joaquin County, and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso), are located entirely within CAL FIRE designated LRAs and not located within or near lands identified as very high FHSZs. PG&E Clayton Hill Repeater Station is located in an SRA, in a high FHSZ with the nearest very high FHSZ located 1 mile to the south.

Work at the Clayton Hill Repeater Station involves installing two new antennas on an existing communication tower in the existing station fence line in unincorporated Contra Costa County. Up to four construction vehicles will access the facility for about 30 days, which is a temporary, incremental increase in traffic. The access road to the facility is paved, has no public vehicle access, and is not identified as a vehicle evacuation route by an emergency plan. Project construction vehicles will travel on Kirker Pass Road and Nortonville Road to access the facility road, none of which are identified in emergency plans. Moreover, the construction vehicles will be a temporary, negligible increase to existing road use. The project activities at PG&E Clayton Hill Repeater Station will not substantially impair an adopted emergency response plan or emergency evacuation plan during construction. O&M activities would not increase from current PG&E Clayton Hill Repeater Station facilities practices after the new antennas are installed. Additionally, with implementation of PG&E's *Construction Fire Prevention Plan* under APM WFR-1 and fire prevention practices under APM WFR-2, the project would have no impact to the high FHSZ SRA at PG&E Clayton Hill Repeater Station.

The *San Joaquin County Emergency Operations Plan* establishes a County incident management structure, establishes the overall operational concepts, and provides a flexible platform for planning and response to hazards, incidents, events, and emergencies (San Joaquin County OES 2022a). The project would establish electrical infrastructure and would not interfere with incident management structure or operation plans.

The majority of construction-related vehicles on local roadways identified as evacuation routes typically would be for worker commute to an assigned work location or limited travel between work locations by inspectors or to deliver material or equipment as required by activities. During construction, there would be temporary and infrequent use of identified evacuation routes such as East Kettleman Lane, East Victor Road (SR12), SR 88, and SR 99, secondary roadways (for example, Beckman Road, East Lodi Avenue,

South Guild Avenue, East Sargent Road, East Pine Street, Curry Avenue, East Harney Lane, Alpine Road, North Locust Tree Road, North Jack Tone Road, North Tully Road, Atkins Road, and Clements Road), and small agricultural roads. The project would not conflict with an adopted emergency response plan or evacuation plan.

PG&E project work will require a rolling stop, or other similar traffic control, to install the new transmission line wires across SR 88, which is identified by the County as an expected evacuation route. Any lane closures will be temporary and short term and will be coordinated with the California Department of Transportation and local jurisdictions to reduce the potential temporary and short-term effects on emergency access. Otherwise, emergency response plans and emergency evacuation plans do not identify roads that would be impacted directly by project construction activities within a roadway. Should an evacuation event occur, construction activities would not interfere with efficient evacuation of the public and project personnel. No negative impact to emergency response plans and emergency evacuation plans would result from O&M of the project, which would occur within station facilities or adjacent to linear facilities where road closures are not planned. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan; therefore, no impact will occur.

LEU Potential Impact Discussion

The LEU portion of the project is not located in or near SRAs and is not located on land classified as very high FHSZs.

The project would not conflict with an adopted emergency response plan or evacuation plan. The *San Joaquin County Emergency Operations Plan* establishes a County incident management structure, establishes the overall operational concepts, and provides a flexible platform for planning and response to hazards, incidents, events, and emergencies (San Joaquin County OES 2022a). The project would establish electrical infrastructure and would not interfere with incident management structure or operational concepts. The majority of construction-related vehicles on local roadways identified as evacuation routes typically would be for worker commute to an assigned work location at or near Guild or Industrial substations. A negligible increase in known and potential evacuation route traffic would occur during construction with the temporary and infrequent use of identified excavation routes such as East Kettleman Lane, East Victor Road (SR 12), and SR 99, secondary roadways (for example, Beckman Road, South Guild Avenue, East Lodi Avenue), and small agricultural roads.

Emergency access would not be impacted directly during construction since streets will remain open to emergency vehicles at all times throughout construction. Although lane closures may be required, at least one lane will remain open to provide access for emergency vehicles and evacuation. In addition, any lane closures will be temporary and short term, and these closures will be coordinated with the City of Lodi to reduce the potential temporary and short-term effects on emergency access. Emergency response plans and emergency evacuation plans do not identify roads that would be impacted directly by LEU project construction activities within a roadway. Should an evacuation event occur, construction activities would not interfere with efficient evacuation of the public and project personnel. No negative impact to emergency response plans and emergency evacuation plans would result from O&M of the project, which would occur within station facilities or adjacent to linear facilities where road closures are not planned. The project will not impair the implementation of or physically interfere with an adopted emergency response or evacuation plan; therefore, no impact will occur.

b) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? *Less-than-Significant Impact*.

PG&E Potential Impact Discussion

The PG&E project components within northern San Joaquin County, and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso), are not located in or near SRAs and are not located on land classified as very high FHSZs. The PG&E project components in the main portion of the project and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso) are not in areas of slope, prevailing winds, or other known factors that would exacerbate wildfire risks. Additionally, none of the project components are designed for human occupancy.

The project is approximately 2.00 miles from the nearest San Joaquin County Communities at Risk communities, which are identified by their location within WUIs. Portions of the new PG&E 230 kV transmission line east of North Tully Road and where the line crosses the channelized Paddy Creek and Bear Creek are within areas of Wildfire Influence Zone and Wildfire Intermix Zone. Within the City of Lodi, PG&E Thurman Switching Station, and adjacent potential Staging Area 3, as well as the interconnecting 60 kV and 230 kV lines, are within the Wildfire Intermix Zone when west of South Guild Avenue, north of East Thurman Road, and south of the railroad tracks south of East Lodi Avenue. The existing PG&E 60 kV lines to the north of LEU Industrial Substation are not within a WUI zone. The warehouse building to the east of South Guild Avenue is identified as the Wildfire Intermix Zone but not the paved area to the immediate north of the building where project work will occur to relocate and remove the existing PG&E 60 kV line and install the new PG&E 230 kV line. No other project components within northern San Joaquin County intersect with WUI zones (refer to Figure 5.20-1). PG&E Rio Oso and Brighton substations are not located in a WUI zone. PG&E Bellota Substation is located within a Wildfire Influence Zone with no WUI zone to the immediate south of the station fence line. While the project intersects some areas of Wildfire Influence Zone or Wildfire Intermix Zone, this main PG&E portion of the project is not within an SRA or very high FHSZ. Additionally, if a wildfire did start in the area, it is unlikely that it would burn unnoticed for a long period of time based on visibility and proximity of fire resources.

PG&E Clayton Hill Repeater Station, an existing paved and fenced communication station with paved access, is within an SRA that is identified as a high FHSZ. The terrain surrounding the fenced, paved station is rolling hills with slopes that rise up to the station, which is on a peaked area. The prevailing wind typically is from the west and average wind speeds are more than 8.6 mph for approximately 5 months, with the windiest month having wind speeds of more than 10.4 mph. NWS describes wind speed between 8 and 12 mph as a "gentle breeze" (NWS 2022b). PG&E Clayton Hill Repeater Station is mainly outside of a WUI zone. A Wildfire Influence Zone to the southwest has a stairstep polygon edge that overlaps with the southwest corner of the PG&E repeater station footprint.

Project-related activities at PG&E Clayton Hill Repeater Station have a minimal potential for exacerbating wildfire risks. Station access is on a paved road to this paved and fenced telecommunication facility. Additionally, project-related activities will be limited in duration and will not be ground-disturbing or include activities that would produce a spark, fire, or flames.

During construction, PG&E will implement APM WFR-1 and APM WFR-2 requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

The project will not have occupants and, therefore, will not potentially expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire caused by slope, prevailing winds, or other factors.

LEU Potential Impact Discussion

The LEU portion of the project is not located within or near an SRA or within lands classified as very high FHSZs. The project is within an area of industrial use with a less than 1% slope. Within the City of Lodi, the new LEU Guild Substation and adjacent potential Staging Area 3 are within the Wildfire Intermix Zone. The project will be grading or blading these areas and removing the potential fuel associated with the existing ruderal grassland. During construction, LEU will implement BMP WFR-1 and BMP WFR-2 requiring workers

to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

The project will not have occupants and, therefore, will not potentially expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire caused by slope, prevailing winds, or other factors.

c) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? *Less-than-Significant Impact.*

PG&E Potential Impact Discussion

The PG&E project components within northern San Joaquin County, and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso), are not located in or near SRAs or on land classified as very high FHSZs. The existing communication tower within PG&E Clayton Hill Repeater Station is within an SRA and on land classified as a high FHSZ. The PG&E portion of the project will require the installation and maintenance of electrical and communication infrastructure, including new transmission lines, one new switching station, one extended service line, one expanded substation, four modified substations, one replaced transmission structure, one modified communication tower, and four modified power lines. No permanent roads outside of stations, fuel breaks, emergency water sources, or other utilities that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment are required.

The new and modified electrical lines, substations, and switching station are similar in nature to the existing project components that will be modified or extended during construction and other existing PG&E lines in the area. The new and modified PG&E electrical infrastructure would be a negligible increase to potential for wildfire risk in the main portion of the project outside of an SRA or very high FHSZ. PG&E will incorporate its new and modified facilities into its WMP modeling (PG&E 2022).

Construction activities, including work areas, staging areas, and laydown areas, and temporary access associated with installation of the PG&E electrical and communication infrastructure could cause a temporary increase in fire risks from overland travel, the use of equipment that may create sparks, and construction equipment and vehicles, which would contain combustible materials such as fuels and oils and ignition sources. However, PG&E will comply with all applicable California Health and Safety Codes and ordinances regulating the handling, storage, and transportation of hazardous materials, which would help to minimize the potential for accidental conditions, including fire. Additionally, during construction, PG&E will implement APM WFR-1 and APM WFR-2, requiring workers to be trained in fire prevention practices and to carry emergency fire suppression equipment to reduce the wildland fire risk in the project area. PG&E's *Construction Fire Prevention Plan* requires that vehicles not be parked on dry vegetation and that a minimum 10-foot area be cleared of all flammable material for any stationary ground-level activities that has the potential to create a spark, fire, or flame. Additional wildfire mitigation actions such as a Working or Dedicated Fire Watch with at least 120 gallons of water, 200 feet of hose, and 40 pounds per square inch at the nozzle are required for elevated fire risk conditions.

Maintenance of electrical infrastructure will include activities to repair and replace infrastructure components to manage operational risk associated with wildfire. Maintenance programs will continue for existing facilities and be implemented for new facilities by PG&E using existing maintenance programs and workers to avoid service interruptions and outages. PG&E maintenance activities would implement the current PG&E WMP, as updated yearly and approved by the State of California Office of Energy Infrastructure Safety. The additional maintenance will be an infrequent and nominal increase to existing PG&E facility maintenance in the project area. Installation or maintenance of the electrical facilities associated with the PG&E portion of the project will not exacerbate fire risk or result in temporary or ongoing impacts to the environment.

PG&E project-related work at PG&E Clayton Hill Repeater Station within an SRA will be a low risk for fire because the work is not "hot work" and will occur within an existing fenced, paved facility. The new PG&E communication equipment (two new drum antennas and connecting communication lines within the station) are not a source of ignition during operation and will be operated within a paved facility. Access to the station during construction and operations and maintenance will occur on a paved access road and vehicles will park within the paved station. The modification to PG&E Clayton Hill Repeater Station within an SRA will not exacerbate fire risk or result in temporary or ongoing impacts to the environment.

LEU Potential Impact Discussion

The LEU portion of the project is not located within or near an SRA or within lands classified as very high FHSZs. The LEU project portion will require the installation and maintenance of electrical infrastructure; however, no associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment is required. During construction, LEU will implement BMP WFR-1 and BMP WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

Maintenance programs will continue for existing facilities and be implemented for new facilities by LEU using existing maintenance programs and workers to avoid service interruptions and outages. During utility maintenance, LEU activity will comply with its 2021 WMP, as updated yearly. The additional maintenance will be an incremental increase to existing LEU facility maintenance in the LEU portion of the project area. Installation or maintenance of the electrical facilities associated with the LEU portion of the project will not exacerbate fire risk or result in temporary or ongoing impacts to the environment.

The City of Lodi is not characterized by substantial areas of wildlands. The topography of the area is relatively homogenous and steep slopes that could contribute to wildland fires are not common. The area surrounding the project is urban and developed (City of Lodi 2010). Based on a review of local conditions and historical fires, LEU has determined that its electrical lines and equipment do not pose a significant risk of catastrophic wildfire (LEU 2021, 2022).

d) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? *No Impact.*

PG&E Potential Impact Discussion

The PG&E project components within northern San Joaquin County, and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso), are not located in or near SRAs and are not located on land classified as very high FHSZs. PG&E Clayton Hill Repeater Station is located within a high FHSZ and an SRA.

The project SWPPP would include measures to control stormwater runoff rates, which would minimize the potential for significant alteration of drainage patterns that would result in downslope or downstream flooding. Further, expansion of PG&E Lockeford Substation and construction of PG&E Thurman Switching Station include design considerations to improve drainage patterns onsite with a modified and new station retention basin and drainage managing runoff from the stations' rock base. New temporary access roads are expected to be overland access with minimal ground-disturbing activities. Any blading or temporary stabilization such as rocking would include design considerations to maintain or improve existing drainage patterns. Therefore, through drainage design and SWPPP implementation, the project would not substantially alter the existing drainage pattern of the site or area or increase the rate or amount of surface runoff in a manner that would result in downstream or downslope flooding. No ground-disturbing work or potential for construction-related polluted stormwater runoff will occur with the project activities at PG&E Clayton Hill Repeater Station.

There is a low probability for landslides in the project area in northern San Joaquin County because of the relatively flat topography (less than 2% slope) and distance from hills, mountains, or slopes. The PG&E project components, including PG&E's remote-end substations and repeater station, are not located within a landslide hazard area, as indicated by the California Landslide Susceptibility Map prepared by the California Geological Survey. The project is located in generally flat urban and agricultural areas that would not be susceptible to post-fire slope instability. Localized areas of relatively steep slopes and increased landslide hazards occur where the new PG&E transmission lines run along natural streams and irrigation canals. These localized areas may be susceptible to post-fire slope instability. However, these areas are not indicated to have a fire hazard severity rating, indicating that the vegetation in the area is less susceptible to fire or is sparser than in other areas, or that few structures (and thus inhabitants) susceptible to fire are present. Given this, there would be no impact from post-fire slope instability.

O&M activities would include utility maintenance, vegetation clearing, tree pruning, and other related O&M activities. Activities conducted during operation of the project would be consistent with existing O&M activities in the area and in compliance with existing state and federal laws, rules, and regulations. The project would have no impact on people and structures, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

LEU Potential Impact Discussion

The LEU portion of the project is not located within or near an SRA or within lands classified as very high FHSZs. The LEU project SWPPP would include measures to control stormwater runoff rates, which would minimize the potential for significant alteration of drainage patterns that would result in downslope or downstream flooding. Further, construction of LEU Guild Substation includes design considerations to address drainage patterns onsite with a retention basin managing runoff from the station's rock base. Therefore, through drainage design and SWPPP implementation, the LEU portion of the project would not substantially alter the existing drainage pattern of the site or area or increase the rate or amount of surface runoff in a manner that would result in downstream or downslope flooding.

There is a low probability for landslides in the project area because of the relatively flat topography (0 to 2% slope) and distance from hills, mountains, or slopes. The LEU project components are not located within a landslide hazard area, as indicated by the California Landslide Susceptibility Map prepared by the California Geological Survey. The project is located in a generally flat industrial area that would not be susceptible to post-fire slope instability. Given this, there would be no impact from post-fire slope instability.

O&M activities of the LEU project components would include substation maintenance, vegetation clearing, and other related O&M activities. LEU activities conducted during operation of the project would be consistent with existing O&M activities in the area and in compliance with existing state and federal laws, rules, and regulations. The project would have no impact on people and structures, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

5.21 Mandatory Findings of Significance

Section 15065 of the CEQA Guidelines requires that a lead agency find that a project may have a significant effect on the environment where there is substantial evidence, in light of the whole record, that any of several conditions may occur. These conditions are included in Appendix G to the CEQA Guidelines and are listed in Table 5.21-1, which also lists the impact conclusions for each criterion. Additional discussion is provided following the table.

Table 5.21-1. CEQA Checklist for Mandatory Findings of Significance

Criterion	Impact Assessment
Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	Less-than-Significant Impact
Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	Less-than-Significant Impact
Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	Less-than-Significant Impact

5.21.1 Impact Assessment: Potential to Substantially Degrade the Quality of the Environment

5.21.1.1 Biological Resources

As discussed in Section 5.4, the proposed project would not result in any significant impacts to biological resources for the PG&E and LEU portions of the project. Only two species of special-status plants – succulent owl's-clover (*Castilleja campestris var. succulenta*) and Sanford's arrowhead (*Sagittaria sanfordii*) – were determined to have the potential to occur in and adjacent to the proposed project's BSA based on the presence of potentially suitable habitat and known occurrences in the vicinity. However, rare plants were not observed within areas of suitable habitat during appropriately timed botanical surveys, and the mesic habitats that they are associated with will not be impacted during project construction. Construction activities are generally located on already-disturbed areas, such as farmland and farm roads.

Suitable habitat for seven special-status wildlife species was identified in the proposed project's BSA. These species include Valley elderberry longhorn beetle, tricolored blackbird, burrowing owl, Swainson's hawk, white-tailed kite, bank swallow, and yellow warbler. Suitable foraging habitat for the avian species is present in the vicinity of all the work locations and there is suitable nesting habitat for the tricolored blackbird, Swainson's hawk, bank swallow, and yellow warbler in the vicinity of the project footprint. Project APMs and BMPs, such as avoiding and protecting nesting birds, would further reduce potential less-than-significant impacts to special-status wildlife species. In addition, the work areas are small relative to the surrounding expanse of adjacent suitable foraging habitat areas and the temporary loss of foraging habitat is not expected to adversely affect these or other bird species. Two large elderberry shrubs are in or near the project footprint, one next to the proposed guard structure and pull site between PG&E proposed structures W1 and W2 and the other within the fence line of PG&E Lockeford Substation, surrounded by a small patch of grassland on the eastern side of the substation's general construction yard and outside of the project footprint. These shrubs, along with any identified during the focused survey to be conducted prior to construction to identify all elderberry shrubs within the project footprint, will be

marked and avoided, as feasible, during construction to avoid or minimize potential impacts to Valley elderberry longhorn beetle.

Riparian vegetation exists within the BSA; however, it is not present within the proposed project footprint. There are work activities in proximity to riparian habitats, including free spans over several creeks; however, with implementation of APMs and BMPs such as identifying and marking sensitive biological resource areas, installing exclusion fencing, and biological monitoring during construction, the potential for indirect impacts to riparian corridors and other sensitive natural communities will not occur.

Although seasonal wetlands, natural watercourses, constructed watercourses, and drainage ditches are present in the BSA, none are within the proposed project footprint, and none will be impacted. The new transmission lines will span both Bear Creek (a perennial stream) and Paddy Creek (an intermittent stream), although neither will be impacted.

Project activities may result in the trimming or removal of native oak trees along access roads or other areas. Trimming of oaks also may be necessary and would be conducted by a certified arborist to avoid impacting tree health or to make the decision to remove the tree if trimming is not feasible.

There also is potential for avian interactions with PG&E power lines and structures, including collisions and electrocutions. PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards. Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the proposed project will be designed to be avian safe, as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012). Through project design, potential impacts would be less than significant.

Therefore, the project does not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of a rare or endangered plant or animal.

5.21.1.2 Cultural Resources

As discussed in Sections 5.5 Cultural Resources, the proposed project would not result in any significant impacts to cultural or tribal resources. Five previously recorded cultural resources intersect the API, including the two historic-era railroad segments, a row of oak trees, a segment of SR 12, and four telegraph poles. For one railroad segment, no railroad-related features or other archaeological material were observed. The other resources will be entirely avoided during construction and would not be impacted by the project. Seven previously unrecorded architectural resources within the architectural API were evaluated as appearing eligible for listing in the CRHR and are considered historical resources. These resources will not be significantly impacted by the project because of existing visual intrusions, no physical impacts, and distance from the existing resources. The project changes will not significantly impact historical resources.

Surface surveys and records searches identified five archaeological sites within the API. There is a low potential to encounter surface precontact resources based on the survey. The potential is the highest adjacent to the creeks in the center of the API. An analysis of sensitivity for buried precontact-era sites determined that the majority of the API has a low to lowest potential. There is a high potential for buried precontact resources in the central portion of the API, near SR 88 and Bear Creek. Archival research found moderate potential for historic-era surface and subsurface deposits. With the implementation of APMs and BMPs to develop and implement a worker environmental awareness program prior to construction, to monitor ground-disturbing activities in high buried sensitivity areas, and to initiate procedures in the event of inadvertent cultural resource discoveries, undiscovered potential tribal cultural resources, or unanticipated discovery of human remains, impacts to resources would be considered less than significant. Project operation and maintenance will not be ground disturbing and will occur within city streets,

facilities, or electrical line ROWs and, as such, will not cause a substantial adverse change in the significance of an archaeological resource as defined in Section 15064.5; no impact will occur.

Neither the PG&E nor LEU project components would impact any known graves. Project impacts on human remains are not anticipated.

Therefore, the project would not eliminate important examples of the major periods of California history or prehistory.

5.21.2 Impact Assessment: Potential for Impacts that are Cumulative Considerable

Chapter 7 identifies potential cumulative projects in the vicinity of the proposed project. Chapter 7 also provides an analysis of potential cumulative impacts for: aesthetics; agriculture and forestry resources; air quality; biological resources; cultural resources; energy; geology, soils, and paleontological resources; greenhouse gases; hazards, hazardous materials and public safety; hydrology and water quality; noise; transportation; tribal cultural resources; utilities and service systems; and wildfire. For land use, minerals, population and housing, public services, and recreation, either the project has no impacts or the impacts are so minor they would not contribute to cumulative impacts in the area.

As discussed in Chapter 7, the proposed project does not have impacts that are individually limited but cumulatively considerable.

5.21.3 Impact Assessment: Potential for Substantial Adverse Effects on Human Beings

5.21.3.1 Air Quality

As discussed in section 5.3, the proposed project would not result in significant impacts to air quality. Construction activities from PG&E and LEU project components would cause temporary air pollutant emissions. The emissions would be below SJVAPCD CEQA thresholds for all pollutants analyzed.

Construction emissions from the project are estimated to exceed 2 tons per year in 2026 and 2027 for NO_x and PM_{10}. Therefore, construction of the project will be subject to SJVAPCD Indirect Source Review Rule 9510 requirements. The project will comply with Rule 9510 requirements to reduce the NO_x and PM_{10} construction emissions by 20% and 45%, respectively, as required by Rule 9510. Emissions would be reduced through either onsite emission reduction, offsite emission offset, or a combination of the two.

Localized PG&E and LEU construction impacts will be short-term in nature, lasting only during the duration of construction. The onsite construction emissions will be less than 100 pounds per day, the screening threshold for SJVAPCD for localized impacts, for each of the criteria pollutants from the construction sites. Most of the project area is within rural agricultural areas and open spaces with few sensitive receptors, and exposure would be periodic and temporary at any specific receptor. APMs and BMPs, such as dust control measures during construction, will further reduce air pollutants.

The project is not expected to result in significant Valley Fever-related impacts because construction will occur mostly in areas where soils have been regularly disturbed by agricultural activities and urban development. Construction fugitive dust control measures will further reduce potential impacts.

The results of the screening health risk assessment for construction activities associated with two locations where sensitive receptors are proximate to construction activities occurring at the location for more than 2 consecutive months indicate that excess cancer risks are less than the significance threshold of 20 in 1 million. The chronic hazard indices are less than the significance threshold of 1.0.

Total emissions from operations and maintenance activities at PG&E and LEU facilities would be below the SJVAPCD CEQA thresholds for project operation.

Therefore, the proposed project would not cause substantial adverse effects on human beings, either directly or indirectly, as a result of air quality impacts.

5.21.3.2 Hazards

As discussed in section 5.9, the proposed project would not result in significant impacts associated with hazards, hazardous materials, or public safety.

There are no existing or proposed schools located within 0.25 mile of the proposed project facilities, and therefore project components would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

No project components would be located on a site that is included on a list of hazardous materials sites compiled pursuant to GC Section 65962.5, and no active Superfund or state response sites are known to exist within 0.25 mile of the project area (EDR 2022).

No project components would be located within any airport land use plan or within 2 miles of a public airport or public use airport. No safety hazards that would affect people residing or working in the project area would result from the project.

The proposed project would not conflict with an adopted emergency response plan or evacuation plan. Emergency access would not be directly impacted during construction of PG&E project components since streets will remain open to emergency vehicles at all times throughout construction.

Construction of project facilities would require the use of motorized heavy equipment, including trucks, cranes, backhoes, and air compressors. Although this equipment requires the use of hazardous materials, such as gasoline, diesel, oil, hydraulic fluid, antifreeze, transmission fluid, lubricating grease, and other fluids, these materials will be transported to the work sites according to DOT standards and used in designated construction staging areas or other suitable locations identified prior to the onset of construction. APMs and BMPs require construction crews to be trained in safe handling of hazardous materials prior to the initiation of construction, which will further reduce the small risk of minor exposures to the environment, the public, or site workers to potentially hazardous materials during construction. The project is not expected to use or store large quantities of hazardous materials during construction. Hazardous materials will be transported, used, and disposed of in accordance with appropriate procedures, the project will not create a significant hazard to the public or environment. In accordance with APMs and BMPs, potentially contaminated soil that has not been precharacterized will be stockpiled separately to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities, work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment. The project will not create a significant hazard to the public or environment.

Monthly maintenance activities occurring at PG&E and LEU substation facilities may include use of hazardous materials, including oils, paints, and solvents used for routine maintenance. These activities would be done in compliance with updated hazardous materials business plans.

Other potential hazards associated with the project electrical facilities include the presence of high voltage, open-air conductors, transmission line, power lines, and distribution lines. Proposed upgrades to the existing facilities will update and conform with the Institute of Electrical and Electronic Engineers' safety standards. Additionally, all workers will be trained in appropriate safety procedures.

6 Comparison of Alternatives

Section 15126.6 of the CEQA Guidelines requires that a range of reasonable alternatives to the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, be described in an Environmental Impact Report (EIR). The EIR also must evaluate the comparative merits of the alternatives. The Guidelines also require an evaluation of the No Project Alternative. Because the CPUC plans to do an EIR for the state environmental document, this Proponent's Environmental Assessment (PEA) section has been prepared consistent with CEQA requirements to support the CPUC action.

Chapter 4 of this PEA describes three possible alternatives to the project that are potentially feasible, meet the project purpose, and meet most of the project objectives: the Central Route Alternative, the Northern Route Alternative, and the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative. These three alternatives were chosen to support decision-making and public participation. This chapter compares the potential impacts of these three alternatives and the No Project Alternative to the project.

6.1 Alternatives Comparison

As discussed in Sections 5.1 to 5.21, the project would not result in significant impacts to the environment. Therefore, this section compares alternatives to the project-based impacts of concern to the community, to distinguish among the alternatives. It is assumed that alternatives would include implementation of all applicable APMs and BMPs discussed in Sections 5.1 to 5.20.

Unless otherwise discussed, construction impacts for the alternatives are assumed to be similar to the project and would not distinguish among alternatives. Staging areas are assumed to be similar in size and would be located on available vacant land not in use at the time of construction. Laydown areas are assumed to be similar in area. Applicable construction-related APMs and BMPs would be implemented for all alternatives.

6.1.1 Aesthetics

This section summarizes the aesthetic impacts that would be likely to occur as a result of project implementation. It also provides a brief description of the environmental setting and potential impacts of the three alternatives. Because aesthetic impacts of construction would be temporary and similar for the project and all alternatives, construction impacts associated with aesthetics are not discussed here.

6.1.1.1 Proposed Project

As discussed in Section 5.1, the project would not result in any significant impacts to aesthetics and no mitigation is required. The CEQA Checklist criteria and conclusions for the project are as follows. A summary of the impact analysis from Section 5.1 also is provided in Table 6.1-1.

Table 6.1-1. CEQA Checklist Criteria for Aesthetics

Criterion	Impact Assessment
Would the project have a substantial adverse effect on a scenic vista?	No Impact
Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	No Impact

Criterion	Impact Assessment
Would the project, in nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	Less-than-Significant Impact
Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	Less-than-Significant Impact

There are no scenic vistas in the project viewshed, other than the summit of Mount Diablo, a scenic vista point, and project modifications would not be noticeable at this distance. The project would not obstruct views to the Coast Range and Sierra Nevada Range or to nearby rivers. There are no designated or eligible state scenic highways within the project viewshed. Portions of the new PG&E 230 kV transmission line would be visible from San Joaquin County scenic routes in the project area, including Clements Road and North Jack Tone Road, in the context of multiple existing transmission lines that closely parallel the project route. Based on typical highway speeds, and because of the presence of other utility lines and distances of the 230 kV transmission line from the roadways, the project would not have a significant effect on views from SR 12 and SR 88. Permanent visual change resulting from modifications to the existing PG&E Lockeford Substation and new PG&E Thurman Switching Station sites would be noticeable but largely incremental and would not substantially alter or degrade the existing visual character of the landscape in these areas.

New PG&E transmission structures would be noticeable to varying degrees, particularly west of PG&E Lockeford Substation, where close-range, largely screened views of new project structures would be visible to a relatively small number of residential viewers. Twelve residences would be within 250 feet of the 10.6-mile transmission line corridor. In one location, a proposed PG&E transmission structure would be located less than 250 feet from a residence on Alpine Road and could appear prominent in unobstructed close-range views. No wineries are located within 250 feet of the new PG&E 230 kV transmission line.

Throughout the project area, the visual modifications to the landscape resulting from PG&E project construction would be experienced by motorists, residents, and visitors to area wineries and would be seen within the context of a working landscape with considerable modification related to agricultural activity, and where irrigation infrastructure along with agricultural processing, storage, and transport facilities are established visible landscape features. Where the 230 kV lines are visible, they would result in incremental change that would not alter overall character or quality of the existing landscape substantially.

6.1.1.2 Central Route Alternative

Environmental Setting

The environmental setting for aesthetics for the Central Route Alternative is similar to the proposed project setting. The corridor for the western segment of the new 230 kV line would be approximately 1 mile north of the project corridor. The vegetation in the vicinity of the Central Route 230 kV transmission line includes vineyards, orchards, forage cropland, and other agricultural crops, as well as grassland and riparian corridors. Scattered stands of mature trees, both native and introduced, are located along many of the area roadways and surrounding most residences, which generally consist of isolated rural houses with associated farm buildings.

The eastern segment of the new 230 kV transmission line would be the same as the proposed project, with the same location and environmental setting. Substation components of this alternative are the same as the proposed project and are, therefore, in the same locations with the same environmental setting as the proposed project.

As with the proposed project, there are no scenic vistas in the Central Route Alternative viewshed, other than the summit of Mount Diablo, a scenic vista point. Local scenic roadways in the vicinity of this alternative include North Jack Tone Road, Clements (Liberty) Road, and SR 88.

Potential Impacts

No significant impacts to aesthetics would be likely to occur as a result of the Central Route Alterative. There are no scenic vistas in the alternative viewshed, other than the summit of Mount Diablo, a scenic vista point, and modifications resulting from the alternative would not be noticeable at this distance. The alternative would not obstruct views to the Coast Range and Sierra Nevada Range or to nearby rivers. There are no designated or eligible state scenic highways within the alternative viewshed. Based on typical highway speeds, and because of the presence of other utility lines and distances of the 230 kV transmission line from the roadways, the alternative would not have a significant effect on views from SR 12 and SR 88. Portions of the new 230 kV transmission line would be visible from San Joaquin County scenic routes, including Clements Road and North Jack Tone Road, in the context of multiple existing transmission lines that closely parallel this alternative's route. The Central Route Alternative would parallel existing transmissions lines for a slightly greater length than the proposed project does. The Central Route Alternative would cross North Jack Tone Road in the same location as the proposed project.

It is expected that, similar to the project, new transmission structures would be noticeable to varying degrees. Eighteen residences would be within 250 feet of the 10.04-mile transmission line corridor. No wineries are located within 250 feet of the new PG&E 230 kV transmission line.

Permanent visual change resulting from modifications to the existing PG&E Lockeford Substation and new PG&E Thurman Switching Station sites would be the same as for the proposed project; modifications would be noticeable but largely incremental and would not substantially alter or degrade the existing visual character of the landscape in these areas.

6.1.1.3 Northern Route Alternative

Environmental Setting

The environmental setting for aesthetics for the Northern Route Alternative is similar to the proposed project setting. The corridor for the new 230 kV line would be approximately 1 mile north of the proposed project corridor, except for the segment approximately between PG&E Lockeford Substation and one-quarter mile west of Linn Road, which will be the same as the proposed project. The vegetation in the vicinity of the Northern Route Alternative 230 kV transmission line includes vineyards, orchards, forage cropland, and other agricultural crops, as well as grassland and riparian corridors. Scattered stands of mature trees, both native and introduced, are located along many of the area roadways and surrounding most residences, which generally consist of isolated rural houses with associated farm buildings.

As with the proposed project, there are no scenic vistas in the Northern Route Alternative viewshed, other than the summit of Mount Diablo, a scenic vista point. Local scenic roadways in the vicinity of this alternative include North Jack Tone Road, Clements (Liberty) Road, and SR 88.

Potential Impacts

No significant impacts to aesthetics would be likely to occur as a result of the Northern Route Alterative. There are no scenic vistas in the alternative viewshed, other than the summit of Mount Diablo, a scenic vista point, and modifications resulting from the alternative would not be noticeable at this distance. The alternative would not obstruct views to the Coast Range and Sierra Nevada Range or to nearby rivers. There are no designated or eligible state scenic highways within the alternative viewshed. Based on typical highway speeds, and because of the presence of other utility lines and distances of the 230 kV transmission line from the roadways, the alternative would not have a significant effect on views from SR 12 and SR 88. Portions of the new 230 kV transmission line would be visible from San Joaquin County scenic routes, including North Jack Tone Road, in the context of multiple existing transmission lines that

closely parallel this alternative's route. The Northern Route Alternative would parallel existing transmissions lines for approximately the same length as the proposed project. The Northern Route Alternative would cross North Jack Tone Road in the same location as the proposed project.

It is expected that, similar to the project, new transmission structures would be noticeable to varying degrees. Twenty-one residences would be within 250 feet of the 10.39-mile transmission line corridor. No wineries are located within 250 feet of the new PG&E 230 kV transmission line.

Permanent visual change resulting from modifications to the existing PG&E Lockeford Substation and new PG&E Thurman Switching Station sites would be the same as for the proposed project; modifications would be noticeable but largely incremental and would not substantially alter or degrade the existing visual character of the landscape in these areas.

6.1.1.4 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Environmental Setting

The environmental setting for aesthetics for the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative is similar to the proposed project setting. The corridor for the new 230 kV line between PG&E Lockeford Substation and LEU Industrial Substation would be approximately 1 mile north of the project corridor and overlap much of the corridors for the Central Route and Northern Route Alternatives. The vegetation in the vicinity of this segment of the 230 kV transmission line includes vineyards, orchards, forage cropland, and other agricultural crops, as well as grassland and riparian corridors. The rest of this alternative's new 230 kV transmission line corridor would run south of LEU Industrial Substation and then west to the PG&E Eight Mile Substation. In this area, in addition to agricultural uses, the environmental setting includes a large regional park, the Micke Grove Regional Park and Golf Course, Elkhorn Golf Club, Oak Grove Regional Park, and The Reserve at Spanos Park golf course.

Scattered stands of mature trees, both native and introduced, are located along many of the area roadways and surrounding most residences, which include both isolated rural houses with associated farm buildings and denser residential development in the cities of Lodi and Stockton.

As with the project, there are no scenic vistas in the Lockeford-Lodi Area 230 kV Development Alternative viewshed, other than the summit of Mount Diablo, a scenic vista point. Local- and state-designated scenic roadways in the vicinity of this alternative include Interstate 5, SR 88, and Eight Mile Road.

Potential Impacts

No significant impacts to aesthetics would be likely to occur as a result of the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alterative. There are no scenic vistas in the alternative viewshed, other than the summit of Mount Diablo, a scenic vista point, and modifications resulting from the alternative would not be noticeable at this distance. The alternative would not obstruct views to the Coast Range and Sierra Nevada Range, or to nearby rivers.

The western component of the 230 kV line would cross Interstate 5 and connect to PG&E Eight Mile Substation adjacent to Eight Mile Road and would be visible from these designated scenic roadways. Based on typical highway speeds, and because of the presence of other utility lines near Interstate 5, the crossing of Interstate 5 with a new transmission line would not be a substantial change to the view. Similarly, modifications to PG&E Eight Mile Substation, including the connection of the new 230 kV transmission line, would be consistent with the industrial nature and the scale of the existing substation.

Based on typical highway speeds, the presence of other utility lines, and distances of the 230 kV transmission line from the roadways, the eastern component of this alternative would not have a significant effect on views from SR 12 and SR 88.

It is expected that, similar to the project, new transmission structures would be noticeable to varying degrees from existing residences, including along the western segment of the new 230 kV transmission line between LEU Industrial Substation and PG&E Eight Mile Substation along Eight Mile Road. Eighty-five residences would be within 250 feet of the 19.85-mile transmission line corridor. Because the new transmission lines with this alternative would be approximately twice as long as the project's transmission lines, it would have greater overall visibility. No wineries are located within 250 feet of the new PG&E 230 kV transmission line.

Permanent visual change resulting from modifications to the existing PG&E Lockeford Substation and LEU Industrial Substation would be the similar to the proposed project; modifications would be noticeable but largely incremental and would not substantially alter or degrade the existing visual character of the landscape in this area. Modifications to PG&E Eight Mile Substation would expand the existing facility by approximately 1.5 acres. This change would be largely incremental and would not substantially alter or degrade the existing visual character of the landscape in this area.

6.1.2 Agriculture and Forestry Resources

This section summarizes the impacts to agriculture and forestry resources that would be likely to occur as a result of project implementation. It also provides a brief description of the environmental setting and potential permanent impacts of the three alternatives. New transmission pole locations have not been identified for alternatives; therefore, permanent impacts to agricultural resources were estimated for alternatives based on the following assumptions:

- Types of crops and classifications of farmland within a half-mile radius of proposed new 230 kV transmission lines were calculated using existing GIS data for each alternative.
- Each new 230 kV transmission pole would have a permanent footprint of 0.0113 acre (approximate average for each proposed project pole). The per-pole acreage was multiplied by the total number of new poles for each alternative to estimate the footprint of permanent impacts.
- Types of crops and classifications of farmland in areas where vegetation would be permanently removed are assumed to be proportional to what is in the half-mile radius, and this proportion was applied to the estimated permanent impacts for each alternative.

Temporary construction impacts to agricultural resources resulting from the alternatives are assumed to be similar to the proposed project and the same APMs and BMPs would be implemented; therefore, construction impacts are not discussed here.

6.1.2.1 Proposed Project

As discussed in Section 5.2, the project would not result in any significant impacts to agriculture or forestry resources and no mitigation is required. The CEQA Checklist criteria and conclusions for the project are shown in Table 6.1-2. A summary of the impact analysis from Section 5.2 also follows.

Table 6.1-2. CEQA Checklist Criteria for Agriculture and Forestry Resources

Criterion	Impact Assessment
Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural land?	Less-than-Significant Impact
Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?	Less-than-Significant Impact

Criterion	Impact Assessment
Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined by Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	No Impact
Would the project result in the loss of forest land or conversion of forest land to nonforest uses?	No Impact
Would the project involve other changes in the existing environment, which, due to their location or nature, could result in the conversion of farmland to nonagricultural use or conversion of forest land to nonforest use?	No Impact

Approximately 0.03 acre of walnut crops and approximately 0.01 acre of almond crops are estimated to be permanently removed as a result of the project. The primary crop that would be temporarily or permanently removed by the proposed PG&E project components is grapes. Approximately 1.14 acres of grapes are anticipated to be permanently removed.

The construction of the new PG&E transmission lines (approximately 57 tubular steel pole structures in Important Farmland) would permanently convert approximately 0.44 acres of Prime Farmland, approximately 0.16 acre of Unique Farmland, and approximately 0.14 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure (refer to Table 5.2-1 in Section 5.2). The modification of the existing PG&E Lockeford Substation would permanently convert approximately 0.49 acre of Prime Farmland and approximately 0.18 acre of Farmland of Statewide Importance to accommodate the expanded footprint on the north side of the existing facilities fence line. A total of approximately 1.41 acres of Important Farmland would be permanently impacted and permanently converted to nonagricultural use.

During project construction, approximately 43.16 acres of lands under Williamson Act contracts will be taken out of production to accommodate PG&E construction activities, delivery and staging of construction materials, installing poles and lines, and construction crew access. Electric utility facility construction and maintenance activities are considered compatible uses of contracted Williamson Act lands under GC Section 51238. Potential project construction and maintenance activities are temporary and will have minimal impacts on Williamson Act land.

6.1.2.2 Central Route Alternative

Environmental Setting

The environmental setting for agriculture and forestry resources for the Central Route Alternative is similar to the proposed project setting. The footprint of this alternative does not contain any forest land, the same as the proposed project. The corridor for the western segment of the new 230 kV line would be approximately 1 mile north of the project corridor through existing vineyards, orchards, forage cropland, and other agricultural crops.

The eastern segment of the new 230 kV transmission line would be the same as the proposed project, with the same location and environmental setting. Substation components of this alternative are the same as the proposed project and are, therefore, in the same locations with the same environmental setting as the proposed project.

Potential Impacts

Approximately 0.07 acre of walnut crops and 0.005 acre of almond crops are estimated to be permanently removed as a result of the Central Route Alternative. Approximately 0.34 acre of grapes are estimated to be permanently removed.

The construction of the new PG&E transmission line poles is estimated to permanently convert approximately 0.37 acre of Prime Farmland, approximately 0.23 acre of Unique Farmland, and approximately 0.08 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure. The modification of the existing PG&E Lockeford Substation would permanently convert approximately 0.49 acre of Prime Farmland and approximately 0.18 acre of Farmland of Statewide Importance to accommodate the expanded footprint on the north side of the existing facilities fence line. A total of approximately 1.35 acres of Important Farmland is estimated to be permanently converted to nonagricultural use.

Similar to the project, construction activities of the Central Route Alternative are expected to temporarily impact lands under Williamson Act contracts.

6.1.2.3 Northern Route Alternative

Environmental Setting

The environmental setting for agriculture and forestry resources for the Northern Route Alternative is similar to the project setting. The footprint of this alternative does not contain any forest land, the same as the proposed project. The corridor for the new 230 kV line would be approximately 1 mile north of the project corridor, except for the segment approximately between PG&E Lockeford Substation and one-quarter mile west of Linn Road, where the setting would be the same as the proposed project. The farmland in the vicinity of the Northern Route Alternative 230 kV transmission line includes vineyards, orchards, forage cropland, and other agricultural crops.

Substation components of this alternative are the same as the proposed project and are, therefore, in the same locations with the same environmental setting as the proposed project.

Potential Impacts

Approximately 0.1 acre of walnut crops and 0.01 acre of almond crops are estimated to be permanently removed as a result of the Northern Route Alternative. Approximately 0.31 acre of grapes are estimated to be permanently removed.

The construction the new PG&E transmission lines poles is estimated to permanently convert approximately 0.38 acre of Prime Farmland, approximately 0.22 acre of Unique Farmland, and approximately 0.08 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure. The modification of the existing PG&E Lockeford Substation would permanently convert approximately 0.49 acre of Prime Farmland and approximately 0.18 acre of Farmland of Statewide Importance to accommodate the expanded footprint on the north side of the existing facilities fence line. A total of approximately 1.35 acres of Important Farmland is estimated to be permanently converted to nonagricultural use.

Similar to the project, construction activities of the Northern Route Alternative are expected to temporarily impact lands under Williamson Act contracts.

6.1.2.4 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Environmental Setting

The environmental setting for agriculture and forestry resources for the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative is similar to the project setting. The footprint of this alternative does not contain any forest land, same as the project. The corridor for the segment of the new 230 kV line between PG&E Lockeford Substation and LEU Industrial Substation would be approximately 1 mile north of the project corridor through existing vineyards, orchards, forage cropland, and other agricultural crops and would overlap much of the corridors for the Central Route and Northern Route Alternatives.

The rest of this alternative's new 230 kV transmission line corridor would run south of LEU Industrial Substation and then west to PG&E Eight Mile Substation. This segment of the new transmission line also runs through existing vineyards, orchards, forage cropland, and other agricultural crops.

Potential Impacts

Approximately 0.11 acre of walnut crops and 0.06 acre of almond crops are estimated to be permanently removed as a result of the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative. Approximately 0.48 acre of grapes are estimated to be permanently removed.

The construction of the new PG&E transmission line poles is estimated to permanently convert approximately 0.81 acre of Prime Farmland, approximately 0.18 acre of Unique Farmland, and approximately 0.29 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure. A total of approximately 1.9 acres of Important Farmland is estimated to be permanently converted to nonagricultural use due to new poles. The expansion of the PG&E Eight Mile Substation would be required for this alternative. Depending on the design of the expansion, this alternative could result in the additional permanent conversion of up to approximately 1.5 acres of Important Farmland to non-agricultural use.

Similar to the project, construction activities of the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative are expected to temporarily impact lands under Williamson Act contracts.

6.1.3 Biological Resources

This section summarizes the impacts to biological resources that would be likely to occur as a result of project implementation. It also provides a brief description of the environmental setting and potential construction (temporary) and permanent impacts of the three alternatives. No field surveys were performed for the alternatives; potential impacts were identified using data gathered from project field surveys and from existing documentation and data. Although new transmission pole locations have not been identified for alternatives, it is assumed that new poles could be sited to avoid waterways, wetlands, or rare plants identified in surveys.

6.1.3.1 Proposed Project

As discussed in Section 5.4, the proposed project would not result in any significant impacts to biological resources and no mitigation is required. The CEQA Checklist and CPUC criteria and conclusions for the project are shown in Table 6.1-3. A summary of the impact analysis from Section 5.4 also is provided.

Table 6.1-3. CEQA Checklist Criteria and CPUC Criteria for Biological Resources

Criterion	Impact Assessment
Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	Less-than-Significant Impact
Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	No Impact
Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including marsh, vernal pool, coastal, and others) through direct removal, filling, hydrological interruption, or other means?	Less-than-Significant Impact

Criterion	Impact Assessment
Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	Less-than-Significant Impact
Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	Less-than-Significant Impact
Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	No Impact
Would the project create a substantial collision or electrocution risk for birds or bats?	Less-than-Significant Impact

Only two species of special-status plants – succulent owl's-clover (*Castilleja campestris var. succulenta*) and Sanford's arrowhead (*Sagittaria sanfordii*) – were determined to have the potential to occur in and adjacent to the proposed project's BSA based on the presence of potentially suitable habitat and known occurrences in the vicinity. However, rare plants were not observed within areas of suitable habitat during appropriately timed botanical surveys, and the mesic habitats that they are associated with will not be impacted during project construction.

Suitable habitat for seven special-status wildlife species was identified in the proposed project's BSA. These species include Valley elderberry longhorn beetle, tricolored blackbird, burrowing owl, Swainson's hawk, white-tailed kite, bank swallow, and yellow warbler. Project APMs and BMPs, such as avoiding and protecting nesting birds, would prevent significant impacts to special-status wildlife species. Two large elderberry shrubs are in or near the project footprint, within or adjacent to the confines of PG&E Lockeford Substation, and would be marked and avoided, as feasible, during construction to avoid or minimize potential impacts to Valley elderberry longhorn beetle.

Riparian vegetation exists within the BSA; however, it is not present within the proposed project footprint. There are work activities in proximity to riparian habitats, including free spans over several creeks; however, with implementation of APMs and BMPs, the potential for indirect impacts to riparian corridors and other sensitive natural communities will not occur.

Although seasonal wetlands, natural watercourses, constructed watercourses, and drainage ditches are present in the BSA, none are within the proposed project footprint, and none will be impacted. The new transmission lines will span both Bear Creek (a perennial stream) and Paddy Creek (an intermittent stream), although neither will be impacted.

Trimming or removal of oaks may be necessary for construction access and would be conducted by a certified arborist to avoid impacting tree health or to make the decision to remove the tree if trimming is not feasible.

There also is potential for avian interactions with PG&E power lines and structures, including collisions and electrocutions. PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards. Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the proposed project will be designed to be avian safe, as appropriate and feasible, following the intent of *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* (APLIC 2006, 2012).

6.1.3.2 Central Route Alternative

Environmental Setting

The environmental setting for biological resources for the Central Route Alternative is similar to the proposed project setting. The corridor for the western segment of the new 230 kV line would be approximately 1 mile north of the proposed project corridor, through similar topography and habitats as the proposed project.

The eastern segment of the new 230 kV transmission line would be in the same location as the proposed project, with the same location and environmental setting. Substation components of this alternative are the same as the proposed project and are, therefore, in the same locations with the same environmental setting as the proposed project.

Similar to the proposed project, the upland areas along and near the Central Route Alternative are primarily hardscaped (pavement and sidewalks), otherwise developed/landscaped, agricultural land, or previously disturbed land and include primarily ruderal or non-native species. The Central Route Alternative location was included in the area of the CNDDB and CNPS database searches. Given the similar habitats, it is expected that the same special-status species would potentially be present for the Central Route Alternative as for the proposed project. Seasonal wetlands, Bear Creek and Paddy Creek, constructed watercourses, and drainage ditches also are present along or near the Central Route Alternative.

Potential Impacts

Impacts to biological resources from the Central Route Alternative would be expected to be similar to the proposed project and be less than significant. New transmission line poles are assumed to be sited to avoid rare plants, riparian habitat, seasonal wetlands, Bear Creek and Paddy Creek, constructed watercourses, and drainage ditches. Trimming or removal of oaks may be necessary for construction access and would be conducted by a certified arborist to avoid impacting tree health or to make the decision to remove the tree if trimming is not feasible. The same APMs and BMPs as the proposed project, such as avoiding and protecting nesting birds, would be implemented to avoid significant impacts to special-status wildlife species. PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards.

6.1.3.3 Northern Route Alternative

Environmental Setting

The environmental setting for biological resources for the Northern Route Alternative is similar to the proposed project setting. The corridor for the western segment of the new 230 kV line would be approximately 1 mile north of the project corridor through similar topography and habitats as the proposed project.

The eastern segment of the new 230 kV transmission line would be in the same location as the proposed project between PG&E Lockeford Substation and approximately one-quarter mile west of Linn Road, with the same location and environmental setting. The remainder of the eastern segment of the Northern Route Alternative is approximately 1 mile north of the proposed project through similar topography and habitats as the proposed project. Substation components of this alternative are the same as the proposed project and are, therefore, in the same locations with the same environmental setting as the proposed project.

Similar to the proposed project, the upland areas along and near the Northern Route Alternative are primarily hardscaped (pavement and sidewalks), otherwise developed/landscaped, agricultural land, or previously disturbed land and include primarily ruderal or non-native species. The Northern Route Alternative location was included in the area of the CNDDB and CNPS database searches. Given the similar

habitats, it is expected that the same special-status species would potentially be present for the Northern Route Alternative as for the project. Seasonal wetlands, Bear Creek and Paddy Creek, constructed watercourses, and drainage ditches also are present along or near the Northern Route Alternative.

Potential Impacts

Impacts to biological resources from the Northern Route Alternative would be expected to be similar to the proposed project and be less than significant. New transmission line poles are assumed to be sited to avoid rare plants, riparian habitat, seasonal wetlands, Bear Creek and Paddy Creek, constructed watercourses, and drainage ditches. Trimming or removal of oaks may be necessary for construction access and would be conducted by a certified arborist to avoid impacting tree health or to make the decision to remove the tree if trimming is not feasible. The western segment of the new 230 kV transmission line would enter PG&E Lockeford Substation on the north side, similar to the proposed project, where the elderberry shrubs are located. As with the proposed project, these shrubs would be marked and avoided. The same APMs and BMPs as the proposed project, such as avoiding and protecting nesting birds, would be implemented to avoid significant impacts to special-status wildlife species. PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards.

6.1.3.4 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Environmental Setting

The environmental setting for biological resources for the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative is similar to the proposed project setting. The corridor for the new 230 kV transmission line between PG&E Lockeford Substation and LEU Industrial Substation would be similar to alignments of the Central Route Alternative and the Northern Route Alternative, which are approximately 0.5 mile north of the western segment of the proposed project's new 230 kV transmission line. Although the segment of the new 230 kV transmission line between LEU Industrial Substation and PG&E Eight Mile Substation for this alternative extends farther south and east than the proposed project, it is located in similar topography and land uses as the proposed project.

This alternative includes components at PG&E Lockeford Substation and LEU Industrial Substation, which are also part of the proposed project footprint and have the same locations with the same environmental setting as the proposed project. The alternative also includes modifications and expansion at the existing PG&E Eight Mile Substation, which is located on a developed parcel adjacent to farmland, similar to the other substations.

Similar to the proposed project, the upland areas along and near the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative are primarily hardscaped (pavement and sidewalks), otherwise developed/landscaped, agricultural land, or previously disturbed land and include primarily ruderal or non-native species. The Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative location was included in the area of the CNDDB and CNPS database searches. Given the similar habitats, it is expected that the same special-status species would potentially be present for this alternative as for the proposed project. Seasonal wetlands, Bear Creek, constructed watercourses, and drainage ditches also are present along or near the alternative.

Potential Impacts

Impacts to biological resources from the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative would be expected to be similar to the proposed project and be less than significant. New transmission line poles are assumed to be sited to avoid rare plants, riparian habitat, seasonal wetlands, Bear Creek, constructed watercourses, and drainage ditches. Similar construction activities as the proposed project, though with a smaller footprint, would occur at PG&E Lockeford Substation. Expansion of PG&E Eight Mile Substation could occur on land in agricultural use adjacent to

the substation. The same APMs and BMPs as the proposed project, such as avoiding and protecting nesting birds, would be implemented to avoid significant impacts to special status wildlife species. PG&E would minimize the potential for electrocution or accidental line collision by constructing electrical lines in accordance with avian-safe construction standards.

6.1.1 Land Use

This section summarizes the impacts to land use that would be likely to occur as a result of project implementation. It also provides a brief description of the environmental setting and potential permanent impacts of the three alternatives. Potential impacts of alternatives were identified using existing documentation and data.

6.1.3.5 Proposed Project

As discussed in Section 5.11, the proposed project would not result in any significant impacts to land use and no mitigation is required. The CEQA Checklist criteria and conclusions for the proposed project are shown in Table 6.1-4. A summary of the impact analysis from Section 5.11 also is provided in the following sections.

Table 6.1-4. CEQA Checklist Criteria for Land Use

Criterion	Impact Assessment
Would the project physically divide an established community?	No Impact
Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	No Impact
Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?	No Impact

No project features or other built components would be implemented that would otherwise introduce a new barrier that physically divides an established community. The project components would not introduce conflicts with the existing *San Joaquin County General Plan* (San Joaquin County 2016) or *City of Lodi General Plan* (City of Lodi 2010).

California GC Section 51238 states that "… the erection, construction, alteration, or maintenance of gas, electric, water, communication, or agricultural laborer housing facilities are hereby determined to be compatible uses within any agricultural preserve." Because of the compatible uses of electric lines and substations, no conflict with existing zoning for agricultural use would occur.

Within the City of Lodi, project facilities are located on land that is currently zoned for Industrial and Public/Quasi-Public uses. According to Section 17.24.030 of the *City of Lodi Municipal Code*, utility facilities are permitted within the industrial land use area with a use permit. According to Section 17.26.060 of the *City of Lodi Municipal Code*, utility facilities are permitted by right within the Public/Quasi-Public district (MuniCode 2021). The proposed project is not located within 2 miles of private airports or airstrips.

San Joaquin County has the SJMSCP, which identifies utility installation and maintenance activities as a permitted activity and compensates for conversions of open space for utility installations and maintenance activities (SJCOG 2000).

6.1.3.6 Central Route Alternative

Environmental Setting

The environmental setting for land use for the Central Route Alternative is similar to the proposed project setting. The new 230 kV transmission line for this alternative would be located in an area designated as General Agriculture land use per the *San Joaquin County General Plan*, other than crossings of Bear Creek and Paddy Creek, which are designated as Open Space/Resource Conservation. The transmission line would be located in General Agriculture zoning per the *San Joaquin County Municipal Code* (MuniCode 2022). Facilities within the City of Lodi boundary would be located on lands designated and zoned for Industrial land use and Public/Quasi-Public use per the *City of Lodi General Plan* and the *City of Lodi Municipal Code*.

Potential Impacts

Impacts to land use from the Central Route Alternative would be expected to be similar to the proposed project and be less than significant or have no impact. The alternative would not divide an established community or introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The alternative is not located within 2 miles of private airports or airstrips. The facilities are allowed uses by the general plans, zoning codes, and SJMSCP, as discussed previously for the proposed project.

6.1.3.7 Northern Route Alternative

Environmental Setting

The environmental setting for land use for the Northern Route Alternative is similar to the proposed project setting. The new 230 kV transmission line for this alternative would be located in an area designated as General Agriculture land use per the *San Joaquin County General Plan*, other than crossings of Bear Creek and Paddy Creek, which are designated as Open Space/Resource Conservation. The transmission line would be located in General Agriculture zoning per the *San Joaquin County Municipal Code*. Facilities within the City of Lodi boundary would be located on lands designated and zoned for Industrial land use and Public/Quasi-Public use per the *City of Lodi General Plan* and the *City of Lodi Municipal Code*.

Potential Impacts

Impacts to land use from the Northern Route Alternative would be expected to be similar to the proposed project and be less than significant or have no impact. The alternative would not divide an established community or introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The alternative is not located within 2 miles of private airports or airstrips. The facilities are allowed uses by the general plans, zoning codes, and SJMSCP, as discussed previously for the proposed project.

6.1.3.8 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Environmental Setting

The environmental setting for land use for the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative is similar to the proposed project setting. The new 230 kV transmission line between PG&E Lockeford Substation and LEU Industrial Substation for this alternative would be located in an area designated as General Agriculture land use per the *San Joaquin County General Plan*. The new 230 kV transmission line between LEU Industrial Substation and PG&E Eight Mile Substation primarily would be located in an area designated as General Agriculture land use, except for two Bear Creek crossings, which are designated as Open Space/Resource Conservation, and the western end of this

segment, which runs through an Agriculture-Urban Reserve designation. The transmission lines and the expansion area for PG&E Eight Mile Substation would be located in General Agriculture zoning per the *San Joaquin County Municipal Code*, except for a small portion south of the City of Lodi zoned as Limited Agriculture. Facilities within the City of Lodi boundary would be located on lands designated and zoned for Industrial land use and Public/Quasi-Public use per the *City of Lodi General Plan* and the *City of Lodi Municipal Code*.

Potential Impacts

Most impacts to land use from the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative would be expected to be similar to the proposed project and be less than significant or have no impact. The alternative would not divide an established community or introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The facilities are allowed uses by the general plans, zoning codes, and SJMSCP, as discussed previously for the project. The alternative, however, would be located within 2 miles of Lodi Airpark and Kingdon Airpark.

6.1.4 Noise

This section summarizes the impacts associated with noise that would be likely to occur as a result of project implementation. It also provides a brief description of the environmental setting and potential impacts of the three alternatives. No noise modeling was performed for the alternatives; potential impacts were identified using existing documentation and data. Temporary noise impacts from construction activities for the alternatives are assumed to be similar to the proposed project and the same APMs and BMPs would be implemented; therefore, construction impacts are not discussed here.

6.1.4.1 Proposed Project

As discussed in Section 5.13, the proposed project would not result in any significant noise-related impacts and no mitigation is required. The CEQA Checklist criteria and conclusions for the proposed project are shown in Table 6.1-5. A summary of the impact analysis from Section 5.13 also is provided in the following sections.

Table 6.1-5. CEQA Checklist Criteria for Noise

Criterion	Impact Assessment
Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	Less-than-Significant Impact
Would the project generate excessive groundborne vibration or groundborne noise levels?	Less-than-Significant Impact
For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	No Impact

Although the proposed project is exempt from local land use and zoning regulations, nevertheless it will be consistent with the local noise ordinance. San Joaquin County exempts noise from construction activities that take place between 6:00 a.m. and 9:00 p.m. At each structure location, construction activities will be short term (typically several days) and temporary, and are planned to take place between 7:00 a.m. and 7:00 p.m. It is also possible that construction beyond these hours may be necessary to reach a safe stopping point. If construction outside of these hours is necessary to accommodate planned electrical outages (clearances) scheduled at night, PG&E will implement APMs that require advance notice to property owners near construction activities. Because the County noise ordinance recognizes exceptions to these hours for emergency work and other exigencies, and any such work near a sensitive receptor will

be brief, the project will be consistent with the noise policies contained in these ordinances, even in the unlikely event that work outside the prescribed hours is required.

Helicopter use is proposed primarily for the conductor stringing operation. Helicopters generally will be staged and fueled at Lodi Airpark, Lodi Airport, or Kingdon Airpark. Temporary landing zones will be established at intervals of approximately 6 miles along the transmission line route; these landing zones will be collocated with pull and tension sites, staging areas, or structure work areas. In each temporary landing zone or staging area, there will be a designated area for helicopter takeoff and landing. The noise assessment concludes that a limited number of residences could experience temporary, but potentially substantial, annoyance caused by intermittent helicopter activity. To minimize the potential concerns from noise emitted by helicopter construction activity, APM NOI-6 establishes that helicopter landing zones be located at least 500 feet from occupied residences where feasible.

Corona noise associated with moisture on the new electrical wires is anticipated to be minimal. These calculated levels are below the level of San Joaquin County performance standards of 70 A-weighted decibels (dBA) maximum sound level, as well as the EPA outdoor activities noise guideline of 55 dBA and are similar to the range of audible noise levels measured in general rain conditions (41 to 63 dBA) (EPA 1974; Miller 1978). Under fair weather conditions, EPA estimates audible noise levels would be approximately 20 dBA lower (if corona were present). These noise levels are below the sound level for existing noise levels identified at PG&E Lockeford Substation and PG&E Thurman Switching Station. Audible noise levels will decrease with distance away from the PG&E 230 kV transmission line. No increases in noise from the existing PG&E Lockeford Substation equipment is expected from the proposed modifications to the bus work.

The modifications at LEU Industrial Substation are not expected to change the operational noise emitted from the substation. For modifications at LEU Guild Substation, the sound level at the boundary of Lodi Memorial Park and Cemetery is predicted to be 38 dBA, which is less than the applicable code requirement. Residences are located farther away, and the substation sound level would be less and also be consistent with the applicable code.

6.1.4.2 Central Route Alternative

Environmental Setting

The environmental setting for noise for the Central Route Alternative is similar to the proposed project setting. As with the proposed project, this alternative is located in an agricultural setting intermixed with residences, commercial, industrial, and open space areas. The segment of the Central Route Alternative new 230 kV transmission line between the Brighton-Bellota 230 kV Line and approximately 1.25 miles west of PG&E Lockeford Substation is in the same location as the proposed project and would be within 1,000 feet of the same sensitive users (residences) as the proposed project. The remainder of the new 230 kV transmission line, west to LEU Industrial Substation, also would be within 1,000 feet of scattered rural residences. Substation modifications are the same as the proposed project and, therefore, in the same locations.

Potential Impacts

Impacts related to noise from the Central Route Alternative would be expected to be similar to the proposed project. Construction activities would be similar and consistent with the local noise ordinance. Corona noise associated with moisture on the new electrical wires and noise from new or modified equipment at the substations would be expected to be similar to the proposed project.

6.1.4.3 Northern Route Alternative

Environmental Setting

The environmental setting for noise for the Northern Route Alternative is similar to the proposed project setting. As with the proposed project, this alternative is located in an agricultural setting intermixed with residences, commercial, industrial, and open space areas. The segment of the Northern Route Alternative new 230 kV transmission line between the Brighton-Bellota 230 kV Line and approximately 1 mile west of PG&E Lockeford Substation, and the westernmost approximately 1-mile segment, are in the same locations as the proposed project and would be within 1,000 feet of the same sensitive users (residences) as the proposed project. The remainder of the new 230 kV transmission line also would be within 1,000 feet of scattered rural residences. Substation modifications are the same as the proposed project and, therefore, in the same locations.

Potential Impacts

Impacts related to noise from the Northern Route Alternative would be expected to be similar to the proposed project. Construction activities would be similar and consistent with the local noise ordinance. Corona noise associated with moisture on the new electrical wires and noise from new or modified equipment at the substations would be expected to be similar to the proposed project.

6.1.4.4 Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative

Environmental Setting

The environmental setting for noise for the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative is similar to the proposed project setting. As with the proposed project, this alternative is located in an agricultural setting intermixed with residences, commercial, industrial, and open space areas. The Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative new 230 kV transmission line between LEU Industrial Substation and PG&E Lockeford Substation is approximately 0.5 mile north of the proposed project and would be within 1,000 feet of a similar number of users (residences) as the proposed project. PG&E Lockeford Substation and LEU Industrial Substation modifications are similar to the proposed project and are in the same locations. PG&E Eight Mile Substation is within approximately 1,000 feet of Interstate 5, commercial and agricultural uses, and a small number of residences.

Potential Impacts

Impacts related to noise from the Lockeford-Lodi Area 230 kV Development (Eight Mile Substation) Alternative would be expected to be similar to the proposed project. Construction activities would be similar and consistent with the local noise ordinance. Corona noise associated with moisture on the new electrical wires and noise from new or modified equipment at the substations would be expected to be similar to the proposed project.

6.2 Alternatives Ranking

Table 6.2-1 summarizes the comparison of the alternatives with the proposed project. As shown in Table 6.2-1, the No Project Alternative would be the environmentally superior alternative. CEQA Guidelines Section 15126.6(e) states that “if the environmentally superior alternative is the ‘no project’ alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives.”

The proposed project would be the environmentally superior alternative among the other alternatives. All project impacts would be less than significant. The Central Alternative and Northern Alternative would also have less-than-significant impacts and most impacts would be comparable to the project, given the

similar lengths of the new transmission lines. For example, the quantified estimates for agricultural impacts and the potential biological impacts are similar. However, these two alternatives would have more noticeable aesthetic impacts due to the location of the lines. They would increase by at least 50% the number of residences within 250 feet of the new PG&E 230 kV transmission lines compared to the project. Additionally, both alternatives would be within 250 feet of a winery. They are nearer, and hence more visible, to the designated scenic portion of SR 88 than the project.

Given the much longer new transmission line with the Lockeford-Lodi Area 230 kV Development Alternative, it would have noticeably greater impacts than the proposed project. For example, this alternative would result in the permanent conversion of approximately 25% more Important Farmland than the proposed project. Seven times as many residences would be within 250 feet of the new PG&E transmission lines compared to the proposed project. It also would cross a state designated scenic highway. It is also within 2 miles of two airports.

Community and public information informed the identification of the proposed project. Community and public stakeholders expressed concern with the impacts to agricultural land use and distance from the alignments to local thoroughfares, residences, and retail wineries during community and public outreach, including the July 2019 open houses. The proposed project has the least number of residences within 250 feet, no wineries within 250 feet, and is not immediately adjacent to major thoroughfares valued by the community while increasing alignment with field edges.

Table 6.2-1. Alternatives Comparison Summary and Ranking

Ranked Alternatives[a]	Aesthetics	Agriculture and Forestry Resources	Biological Resources	Land Use	Noise
1. No Project	No effect on views, visual character, or scenic vistas.	No impacts to agriculture and forestry resources	No impacts to biological resources.	No direct impacts to land use.	No impacts associated with noise.
2. Proposed Project	No significant impacts and no mitigation required. Approximately 12 residences within 250 feet of new approximately 10.6-mile 230 kV transmission line corridor. No wineries within 250 feet of new 230 kV transmission line. One crossing of a local scenic roadway (North Jack Tone Road). One crossing of SR 88 approximately 4 miles south of a local scenic designation.	Approximate permanent impacts from PG&E Lockeford Substation components: • Conversion of approximately 0.49 acre of land designated as Prime Farmland and approximately 0.18 acre of land designated as Farmland of Statewide Importance, not currently used for agriculture Approximate permanent impacts from other project components (new transmission poles): • Permanent removal of approximately 0.03 acre of walnuts, approximately 0.01 acre of almonds, and approximately 1.14 acres of grapes • Conversion of approximately 0.44 acres designated as Prime Farmland, approximately 0.16 acre designated as Unique Farmland, and approximately 0.14 acre designated as Farmland of Statewide Importance to nonagricultural uses	Components within/adjacent to PG&E Lockeford Substation: • Two large elderberry shrubs are in the project footprint and will be marked and avoided, as feasible, during construction, which will prevent or minimize potential impact Other project components: • Rare plants were not observed within areas of suitable habitat during appropriately timed botanical surveys, and the mesic habitats that they are associated with will not be impacted during project construction. • Project APMs and BMPs avoid significant impacts to special-status wildlife species. • One crossing each of Bear Creek and Paddy Creek (no direct or indirect construction impacts). • No wetlands in project footprint. • Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the project will be designed to be avian-safe, as appropriate and feasible.	Project components would not introduce a new barrier that physically divides an established community. Project components would not introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The project is not located within 2 miles of private airports or airstrips. The project would not conflict with the SJMSCP or any applicable Habitat Conservation Plan.	The project will be consistent with the local noise ordinance during construction. A limited number of residences could experience temporary, but potentially substantial, annoyance caused by intermittent helicopter activity. APMs and BMPs would minimize potential concerns from noise emitted by helicopter construction activity. Corona noise is calculated to be below County and EPA performance standards. Noise from operation of substation equipment will not exceed established standards.
3. Central Route	No significant impacts and no mitigation required. Approximately 18 residences within 250 feet of new approximately 10.04-mile 230 kV transmission line corridor. One winery is within 250 feet of new 230 kV transmission line. One crossing of a local scenic roadway (North Jack Tone Road) at the same location as the project. One crossing of SR 88 approximately 3.5 miles south of a local scenic designation.	Approximate permanent impacts from PG&E Lockeford Substation components: • Conversion of approximately 0.49 acre of land designated as Prime Farmland and approximately 0.18 acre of land designated as Farmland of Statewide Importance, not currently used for agriculture Approximate permanent impacts from other project components (new transmission poles): • Permanent removal of approximately 0.07 acre of walnuts, approximately 0.005 acre of almonds, and approximately 0.34 acre of grapes • Conversion of approximately 0.37 acre designated as Prime Farmland, approximately 0.23 acre designated as Unique Farmland, and approximately 0.08 acre designated as Farmland of Statewide Importance to nonagricultural uses	Components within/adjacent to PG&E Lockeford Substation: • Two large elderberry shrubs are in the project footprint and will be marked and avoided, as feasible, during construction, which will prevent or minimize potential impact Other project components: • It is assumed new transmission pole locations would be selected to avoid rare plants, wetlands, and riparian areas. • Applicable APMs and BMPs avoid significant impacts to special-status wildlife species. • One crossing each of Bear Creek and Paddy Creek (no direct or indirect construction impacts assumed). • Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the project will be designed to be avian-safe, as appropriate and feasible.	Project components would not introduce a new barrier that physically divides an established community. Project components would not introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The project is not located within 2 miles of private airports or airstrips. The project would not conflict with the SJMSCP or any applicable Habitat Conservation Plan.	Impacts expected to be similar to the proposed project.

Ranked Alternatives[a]	Aesthetics	Agriculture and Forestry Resources	Biological Resources	Land Use	Noise
4. Northern Route	No significant impacts and no mitigation required. Approximately 21 residences within 250 feet of new approximately 10.39-mile 230 kV transmission line corridor. One winery is within 250 feet of new 230 kV transmission line. One crossing of a local scenic roadway (North Jack Tone Road) at the same location as the project. One crossing of SR 88 approximately 3.5 miles south of a local scenic designation.	Approximate permanent impacts from PG&E Lockeford Substation components: • Conversion of approximately 0.49 acre of land designated as Prime Farmland and approximately 0.18 acre of land designated as Farmland of Statewide Importance, not currently used for agriculture Approximate permanent impacts from other project components (new transmission poles): • Permanent removal of approximately 0.1 acre of walnuts, approximately 0.01 acre of almonds, and approximately 0.31 acre of grapes • Conversion of approximately 0.38 acre designated as Prime Farmland, approximately 0.22 acre designated as Unique Farmland, and approximately 0.08 acre designated as Farmland of Statewide Importance to nonagricultural uses	Components within/adjacent to PG&E Lockeford Substation: • Two large elderberry shrubs are in the project footprint and will be marked and avoided, as feasible, during construction, which will prevent or minimize potential impact Other project components: • It is assumed new transmission pole locations would be selected to avoid rare plants, wetlands, and riparian areas. • Applicable APMs and BMPs avoid significant impacts to special-status wildlife species. • One crossing each of Bear Creek and Paddy Creek (no direct or indirect construction impacts assumed). • Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the project will be designed to be avian-safe, as appropriate and feasible.	Project components would not introduce a new barrier that physically divides an established community. Project components would not introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The project is not located within 2 miles of private airports or airstrips. The project would not conflict with the SJMSCP or any applicable Habitat Conservation Plan.	Impacts expected to be similar to the proposed project.
5. Lockeford-Lodi Area 230 kV Development (Eight Mile Substation)	No significant impacts and no mitigation required. Approximately 85 residences within 250 feet of new approximately 19.85-mile 230 kV transmission line corridor. No wineries within 250 feet of new 230 kV transmission line. One crossing of a state and a local scenic highway (Interstate 5) and adjacent to local scenic roadway (Eight Mile Road) for connection and modification to PG&E Eight Mile Substation.	Approximate permanent impacts from PG&E Eight Mile Substation modifications: • Permanent conversion of up to approximately 1.5 acres designated as Important Farmland to non-agricultural uses. Approximate permanent impacts from project components (new transmission poles): • Permanent removal of approximately 0.11 acre of walnuts, approximately 0.06 acre of almonds, and approximately 0.48 acre of grapes • Conversion of approximately 0.81 acre designated as Prime Farmland, approximately 0.18 acre designated as Unique Farmland, and approximately 0.29 acre designated as Farmland of Statewide Importance to nonagricultural uses	Components within/adjacent to PG&E Lockeford Substation: • Two large elderberry shrubs are in the project footprint and will be marked and avoided, as feasible, during construction, which will prevent or minimize potential impact Other project components: • It is assumed new transmission pole locations would be selected to avoid rare plants, wetlands, and riparian areas. • Applicable APMs and BMPs avoid significant impacts to special-status wildlife species. • Several crossings of Bear Creek (no direct or indirect construction impacts assumed). • Conductors and ground wires would be spaced sufficiently apart so that raptors would not be electrocuted and all transmission, power, and station facilities for the project will be designed to be avian-safe, as appropriate and feasible.	Project components would not introduce a new barrier that physically divides an established community. Project components would not introduce conflicts with the existing *San Joaquin County General Plan* or *City of Lodi General Plan*. The project is located within 2 miles of Lodi Airpark and Kingdon Airport. The project would not conflict with the SJMSCP or any applicable Habitat Conservation Plan.	Impacts expected to be similar to the proposed project.

[a] Listed in order from least impacts to greatest impacts.

7 Cumulative and Other CEQA Considerations

This section discusses potential cumulative impacts related to the Northern San Joaquin 230 kV Transmission Project. Cumulative impacts, as defined in Section 15355 of the CEQA Guidelines, refer to two or more individual impacts that, when considered together, are considerable or that compound or increase other environmental impacts. A cumulative impact is the change in the environment that results from the incremental impact of a project when added to other closely related past, present, or reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant impacts occurring over time.

An analysis of potential cumulative impacts for each relevant resource topic is provided in Section 7.1, immediately following Table 7.1-1, which lists projects within approximately 2 miles of the project area. The projects listed in Table 7.1-1, developed from available information on websites and with input and review by the involved agencies, were included if they had potential environmental impacts, geographic scope and location, and/or timing and duration of implementation similar to those of the Northern San Joaquin 230 kV Transmission Project. The analysis considered the potential cumulative impacts that could result when impacts of the proposed project are considered in combination with impacts of other past, present, and reasonably foreseeable future projects. Some reasonably foreseeable future projects listed in Table 7.1-1 might not be approved or could be modified prior to approval; however, for the purpose of this analysis, approval and construction of identified projects was assumed.

7.1 Cumulative Impacts

Projects included in the cumulative impact assessment were identified by using a list approach (CEQA Guidelines Section 15130(b)(1)(A)), including all pending development projects within an approximately 2-mile radius of the project area. This area includes portions of unincorporated San Joaquin County and the City of Lodi. Table 7.1-1 summarizes these pending development projects.

7.1.1 List of Cumulative Projects

Table 7.1-1 lists cumulative projects in the vicinity of proposed project components that may overlap with the project's construction timeline. The cumulative projects are also shown on Figure 7.1-1. Information was gleaned from the City of Lodi, San Joaquin County Community Development, SJCOG, Caltrans, and other sources such as the Governor's Office of Planning and Research CEQA Net website. For some projects in Table 7.1-1, construction schedule information was not available. For the purposes of the cumulative impact analysis, it was assumed the construction schedule would overlap with the proposed project construction. Two highway projects are included, although they are not in the vicinity of the proposed project, because the highways serve the project area.

According to the City of Lodi, there are no anticipated future City or LEU projects or development within 2 miles of LEU Industrial Substation within the Lodi city limits (Shahriar 2022). One future project within Lodi city limits, sponsored by the SJCOG, was identified and is included in Table 7.1-1 (Church Street Road Diet). The California high-speed rail is currently under Phase 1 construction in the Central Valley; Phase 2 will extend the system to Sacramento and San Diego (California High-Speed Rail Authority 2021). The Merced-to-Sacramento draft route map published in July 2018 appears to route the alignment to the east of the City of Lodi, potentially across the project alignment. However, the proposed rail project is still in early planning stages, a specific location for the rail route has not been identified, and funding has not yet been secured. For these reasons, the high-speed rail project has not been included in the list of cumulative projects.

Table 7.1-1. Cumulative Projects in the Project Vicinity

Map No.	Project Name	Description/Location	Location (in Proximity to the Project)	Project Status and Construction Duration	Source of Project Information
1	Handel Lateral Project (Demonstration Recharge, Extraction, and Aquifer Management (DREAM) Project)	Installation of approximately 2 miles of underground irrigation pipeline, a new pump station, and a control structure, which would provide expanded water delivery services to agricultural lands within a surrounding 700- to 1,000-acre area.	The northern extraction well is located approximately 1.62 miles south of the 230 kV transmission line, southeast of the City of Lodi.	Unknown	Website: Projects – North San Joaquin Water Conservation District (nsjgroundwater.org)
2	Union Pacific Railroad Milepost 70.56 Bridge Replacement, Fresno Subdivision	Project by the CVFPB to replace the existing 14-span, 439-foot-long single track railroad bridge spanning the Mokelumne River.	Approximately 1 mile northeast of PG&E Lodi Substation	Unknown; Notice of Exemption posted Nov. 23, 2022	OPR CEQA Net website: Permit No. 4997-1: Milepost 70.56 Bridge Replacement, Fresno Subdivision (ca.gov)
3	PA-2100295 & PA-2200090—- Use Permit and General Plan Map Amendment for the expansion of an existing agricultural processing facility	The project comprises two components: expand an existing agricultural processing facility by constructing a 96,959-square-foot, two-story agricultural processing building; and change the land use designation of a 17.3-acre parcel from I/T (Truck Terminal) to A/G (General Agriculture). The project is located at 6550 SR 12/East Victor Road, with an entrance at E Pine St and Curry Ave east of the City of Lodi.	Approximately 0.5 mile north-northeast of new 230 kV line, PG&E Thurman Switching Station, and LEU Guild Substation	Unknown; environmental review completed Nov. 2022	San Joaquin County Community Development website: Community Development | San Joaquin County (sjgov.org)
4	PG&E Bellota-Warnerville 230 kV Reconductor	Reinforcement of approximately 23 miles of the Central Valley's 230 kV transmission system from Bellota Substation to Warnerville Substation.	Will connect to the eastern end point of the new NSJ 230 kV transmission line.	Estimated construction from 2021 to 2024	PG&E

Map No.	Project Name	Description/Location	Location (in Proximity to the Project)	Project Status and Construction Duration	Source of Project Information
5	New winery and event center	Application for Use Permit at 16201 N Tretheway Road	Approximately 1 mile northwest of new 230 kV transmission line	Unknown. Revised Mitigated Neg. Declaration completed March 2022	San Joaquin County website Community Development | San Joaquin County (sjgov.org)
6	New Subdivision	Major subdivision application to subdivide 14.57-acre lot into 7 parcels at 9296 East SR 12	Approximately 1.5 miles north of new 230 kV transmission line, near the community of Victor	Unknown. Major Subdivision with site plan submitted to County Commission on Dec. 15, 2022, for approval.	San Joaquin County website Community Development | San Joaquin County (sjgov.org)
7	New Storage Building	Site Application for new 20,000-square-foot storage building on East SR 12 near North Knoll Road	Approximately 2 miles north of new 230 kV transmission line, in the community of Victor	Unknown. Environmental review completed in Feb. 2020. Application may have been withdrawn.	San Joaquin County website Community Development | San Joaquin County (sjgov.org)
8	SR 99/120 Interchange Connector Reconstruction	Addition of lanes to SR 99 and SR 120 interchange in City of Manteca	Approx. 20 miles south of project	Construction of first phase expected to start Spring 2023 and end in 2024	San Joaquin Council of Governments website on active projects: Active Projects | San Joaquin Council of Governments, CA (sjcog.org)

Map No.	Project Name	Description/Location	Location (in Proximity to the Project)	Project Status and Construction Duration	Source of Project Information
9	Church Street Road Diet	Installation of Class II bike lanes, pedestrian facilities, intersection crossings, and reduction of roadway from four lanes to two lanes on Church Street between Lodi Ave and Lockeford Street in Lodi	Approximately 0.5 mile southwest of PG&E Lodi Substation and 0.75 mile west of new PG&E Thurman Switching Station and LEU Guild Substation	Unknown.	San Joaquin Council of Governments website on active projects: Active Projects | San Joaquin Council of Governments, CA (sjcog.org)
10	Interstate 205 (I-205) Managed Lanes	Caltrans proposes to install managed lanes on approximately 12 miles of I-205 in Tracy	Approximately 25 miles south-southwest of project	Unknown. Environmental document expected to be completed in Fall 2023	Caltrans website: Interstate 205 Managed Lanes Project | Caltrans
11	SR 12 (Victor Road) Widening	Widen from 2 to 4 lanes approximately between SR 99 and the eastern boundary of Lodi General Plan	Approximately 0.25 mile east of PG&E Lodi Substation and 0.5 mile north of new PG&E Thurman Switching Station and LEU Guild Substation	Construction scheduled to start in 2032	San Joaquin Council of Governments websites: 2017-MKR-Strategic-Plan---Appendices (sjcog.org) and 2017-MKR-Strategic-Plan---Appendices (sjcog.org)

Table 7.1-2 defines the geographic scope of analysis for each resource topic and why the scope is appropriate for each resource.

Table 7.1-2. Geographic Scope of Analysis for Cumulative Scenario

Resource Topic[a]	Geographic Scope
Aesthetics	Foreground viewshed of the proposed project (within 0.5 mile of project). Visual details generally would be most apparent to a viewer when they are observed in the foreground viewshed. Although project components would potentially be visible from a distance of up to 5 miles from the project corridor, the intervening structures and vegetation (landscape and orchard trees) and atmospheric pollutants constrain distant views.
Agriculture and Forestry Resources	The San Joaquin County. The County's General Plan identifies goals and policies for managing land use, including agricultural land use, within the County.
Air Quality	SJVAPCD air basin. The SJVAPCD manages air quality for the basin, and some pollutant emissions could affect air quality throughout the basin.
Biological Resources	BSA for the proposed project. The BSA includes biological resources that may be impacted by the project. The project is not likely to impact biological resources outside the BSA and therefore would not contribute to potential cumulative impacts.
Cultural Resources	API for the proposed project. The API includes any potential cultural resources that could be affected by the project. The project would not impact potential cultural resources outside the API and, therefore, would not contribute to potential cumulative impacts.
Energy	State of California, which is the appropriate scale for evaluating wasteful energy use.
Geology, Soils, and Paleontological Resources	Project footprint. Impacts are site-specific and generally do not extend beyond the project limits.
Greenhouse Gases	State of California. The state has established reduction goals for greenhouse gases, and greenhouse gas emissions do not remain localized.
Hazards, Hazardous Materials, and Public Safety	Within 0.25 mile of the project, the approximate distance effects of releases of hazardous materials could occur. This distance is used in CEQA significance criteria (for example, would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school).
Hydrology and Water Quality	Bear Creek watershed in northern San Joaquin County, which encompasses the hydrologic resources potentially affected by the proposed project.
Noise	Within 2,000 feet of the project. Noise attenuates rapidly with distance; this is a conservative scope to accommodate the rural nature of much of the project setting.
Transportation	Northern San Joaquin County, which encompasses most of the construction and operation traffic.
Tribal Cultural Resources	API for the proposed project.
Utilities and Service Systems	Northern San Joaquin County, the area in which the primary utility and service systems serving the project are managed.
Wildfire	Northern San Joaquin County.

Notes:

[a] For the resource topics Land Use, Minerals, Population and Housing, Public Services, and Recreation, either the project has no impacts or the impacts are so minor they would not contribute to cumulative impacts. These resource areas are not discussed further in this section.

7.1.2 Cumulative Impact Analysis

The purpose of the project is to address reliability and capacity issues on the existing PG&E 230 kV and 60 kV systems serving the area between PG&E Lockeford and PG&E Lodi substations in northern San Joaquin County. The proposed project is needed because the existing PG&E 230/60 kV system is experiencing voltage issues and thermal overloads. The northern San Joaquin area is forecasted to continue to grow its power load requirements, which will worsen these voltage and thermal overload issues.

Implementation of APMs and BMPs will further minimize less-than-significant short-term impacts related to aesthetics; agriculture and forestry resources; air quality; biological resources; cultural resources; energy; geology, soils, and paleontological resources; greenhouse gases; hazards, hazardous materials and public safety; hydrology and water quality; noise; transportation; tribal cultural resources; utilities and service systems; and wildfire. As shown in Chapter 5, for land use, minerals, population and housing, public services, and recreation, either the project has no impacts or the impacts are so minor they would not contribute to cumulative impacts in the area; these resource topics are not discussed further in this section. In addition, for most of the resource areas, temporary impacts are localized and unlikely to be cumulative. The following sections provide a discussion regarding each relevant resource area.

7.1.2.1 Aesthetics

PG&E Potential Cumulative Impacts

The PG&E-proposed 230 kV transmission line, modifications to existing PG&E 60 kV lines, modifications to PG&E Lockeford Substation, and new PG&E Thurman Switching Station will not substantially degrade the existing visual character or quality of the landscape setting. The project will not be located near any recognized scenic vistas or designated or eligible State Scenic Highways.

To the extent that the proposed project would be visible during construction along with one or more of the cumulative projects, adverse cumulative impacts may occur from the construction equipment, vehicles, materials, staging areas, and personnel. These construction impacts, however, would be temporary and would not create significant cumulative effects. Additionally, PG&E would implement APM AES-1 to ensure aesthetics impacts during construction are reduced, including directing lighting sources onsite and away from potentially sensitive receptors. Public views available to nearby residents and some agricultural workers of construction activities along the PG&E 230 kV transmission alignment would be more limited.

Glare from new PG&E 230 kV TSP structures and conductors would be less than significant, and further reduced with implementation of APM AES-2 requiring the use of non-specular conductors and a dulled galvanized finish on the new PG&E project poles, reducing potential glare of transmission components. Equipment at PG&E Lockeford Substation and the new PG&E Thurman Switching Station would be a nonreflective neutral gray color and galvanized steel structures would weather to a dull, nonreflective patina and would minimize the potential effect of glare. New fence material would be similar to the chain link fencing at the existing substations and would weather to a dull, nonreflective patina. Potential impacts from glare for the PG&E project components would be less than significant.

The projects in Table 7.1-1 that are within 0.5 mile of the proposed project are: PG&E Bellota-Warnerville 230 kV Reconductor; Church Street Road Diet; and SR 12 (Victor Road) Widening. These projects would result in modifications to existing infrastructure that are at the same scale and type as the existing infrastructure. The project, with these projects in the vicinity, will not make a considerable contribution to the modification of the viewshed.

The remaining projects in Table 7.1-1 are a sufficient distance from the project (approximately 0.5 mile or greater) that the less-than-significant impacts associated with project structures are not likely to contribute to a cumulative impact to aesthetics. Because of the linear nature of the transmission line portion of the project, only a small portion of the project transmission line will be visible from any single

viewing location in common with the other projects in the vicinity. PG&E would implement APM AES-3a and APM AES-3b for transmission pole Structure W13, which would relocate the structure or provide new landscape screening to reduce the potential project visibility with respect to the residential view. Based on these combined factors, no substantial contribution to any potential cumulative impact will occur.

LEU Potential Cumulative Impacts

The LEU Industrial and Guild substations and 12 kV feeder line will not substantially degrade the existing visual character or quality of the landscape setting. The project will not be located near any recognized scenic vistas or designated or eligible State Scenic Highways.

Temporary construction impacts would include the temporary presence of workers, temporary structures, construction equipment, and vehicles associated with the installation of substation components. Although construction activities at the LEU substations and 12 kV feeder line would be visible to motorists at nearby public roadways, BMP AES-1 calls for construction staging, material storage, and work areas to be located away from public view wherever possible and the use of temporary screening fencing if applicable.

Given its context, the new LEU facility (LEU Guild Substation) would represent an incremental visual effect in an industrial setting that includes adjacent built features of similar material, scale, and appearance. The LEU project components would be seen by a limited number of viewers, who generally would be familiar with the surrounding industrial environment; the overall visual sensitivity at this location is considered low to moderate based on its location, industrial use, and zoning. As a result of conditions outlined previously, the LEU components project would not substantially degrade the existing visual character of the landscape at this location and the impacts would be less than significant. Additionally, equipment at the new LEU Guild Substation would be a nonreflective neutral gray color and galvanized steel structures would weather to a dull, nonreflective patina that would minimize the potential effect of glare. New fence material would be similar to the chain link fencing at the existing substations and would weather to a dull, nonreflective patina. Potential impacts from glare for the LEU project components would be less than significant.

Therefore, the project, with other projects in the vicinity, will not make a considerable contribution to the modification of the viewshed. As discussed for the PG&E cumulative impacts, projects in Table 7.1-1 in the vicinity of the LEU project components would result in modifications to existing infrastructure that are at the same scale and type as the existing infrastructure. The remaining projects in Table 7.1-1 are a sufficient distance from the project (approximately 0.5 mile or greater) that the less-than-significant impacts associated with project structures are not likely to contribute to a cumulative impact to aesthetics. Based on these combined factors, no substantial contribution to any potential cumulative impact will occur.

7.1.2.2 Agriculture and Forestry Resources

PG&E Potential Cumulative Impacts

The PG&E portion of the project will temporarily impact 43.67 acres of Important Farmland, which would be returned to preconstruction condition unless otherwise requested by the landowners. Permanent impacts resulting from the construction of the new PG&E transmission lines (approximately 57 TSP structures on Important Farmland) and the modification of the existing PG&E Lockeford Substation would permanently convert approximately 0.93 acre of Prime Farmland, 0.16 acre of Unique Farmland, and 0.32 acre of Farmland of Statewide Importance to nonagricultural uses associated with electrical infrastructure. A total of approximately 1.41 acres of Important Farmland would be permanently impacted and permanently converted to nonagricultural use. The TSP structures will not prevent ongoing use of the properties under the Williamson Act for agricultural use. This is considered a minor amount of permanent loss in the context of available farmland in the region and is less than the significance threshold of 10 acres as noted in California GC Section 51222, so the impact will be less than significant.

The project may cause a temporary disruption to existing agricultural operations, both during construction and routine transmission line maintenance activities. PG&E's portion of the project would permanently impact approximately 0.03 acre of walnut orchard, approximately 0.01 acre of almond orchard, and approximately 1.14 acres of grape vines. PG&E's implementation of APM AGR-1 would provide the agricultural owner with fair market compensation for crops removed, crops unable to be harvested or replanted, lost planting cycles, and damaged infrastructure, and restoration of impacted agricultural land during PG&E construction activities.

Permanent loss of approximately 1.41 acres of FMMP-categorized farmland from construction of the project will not result in a substantial contribution to any potential cumulative effects on agricultural resources from development of the other projects in the vicinity. The projects in Table 7.1-1 generally are on already-disturbed land not currently in agricultural use or are located within spheres of planned development. The only cumulative project that would convert agricultural land to non-agricultural uses is the new winery and event center, which would convert a small part of an existing vineyard to parking.

During project construction, the project would impact approximately 43.16 acres of land under Williamson Act contract. These lands will be taken out of production to accommodate PG&E construction activities, delivery and staging of construction materials, installing poles and lines, and construction crew access. Electric utility facility construction and maintenance activities are considered compatible uses of contracted Williamson Act lands under GC Section 51238. Given this consistency, and because potential project construction and maintenance activities are temporary and will have minimal impacts on Williamson Act land, the impact will be less than significant. Construction of the project will not result in a substantial contribution to any potential cumulative effects on Williamson Act lands from development of the other projects in the vicinity.

LEU Potential Cumulative Impacts

The LEU portion of the project would not temporarily impact or result in permanent conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural uses associated with LEU's electrical infrastructure. The LEU portion of the project will not occur on lands zoned for agriculture and agricultural land under Williamson Act contracts Therefore, the LEU portion of the project would not result in cumulative impacts to agricultural resources.

7.1.2.3 Air Quality

PG&E Potential Cumulative Impacts

The air emissions from construction of the PG&E portion of the project will result in a temporary increase in criteria air pollutants; however, these emissions will be temporary and will not result in a cumulatively considerable net increase in emissions. Air quality emissions will occur within the SJVAPCD. The project, with other projects in the vicinity, would be managed by the SJVAPCD for construction air quality emissions. The SJVAPCD has published thresholds of significance (SJVAPCD 2015a) and considered cumulative effects when they exceed these thresholds; the short-term project emissions will fall below these thresholds. PG&E's implementation of APM AIR-1 during project construction would further reduce or minimize the construction emissions from the project. The SJVAPCD has established recommended guidelines for management of emissions during construction of projects within the region (SJVAPCD 2015b). The project will comply with Rule 9510 requirements to reduce NO_x and PM_{10} construction emissions by 20% and 45%, respectively. In addition, the PG&E portion of the project would not result in a cumulatively considerable net increase of any pollutants for which the region is in nonattainment under NAAQS and CAAQS, so there would be a less-than-significant impact.

The APMs in this document follow those SJVAPCD guidelines, thereby further minimizing the project's contribution to regional air quality. Similarly, the projects in Table 7.1-1 also are required to comply with SJVAPCD requirements and pollution thresholds. Therefore, the project will not contribute to a significant cumulative impact to air quality.

LEU Potential Cumulative Impacts

The air emissions from construction of the LEU portion of the project will result in a temporary increase in criteria air pollutants; however, these emissions will be temporary and will not result in a cumulatively considerable net increase in emissions. Air quality emissions will occur within the SJVAPCD. The project, with other projects in the vicinity, would be managed by the SJVAPCD for construction air quality emissions. The SJVAPCD has published thresholds of significance and considered cumulative effects when they exceed these thresholds; the short-term project emissions will fall below these thresholds. LEU's implementation of BMP AIR-1 during project construction would further reduce or minimize the construction emissions from the project. Additionally, the SJVAPCD has established recommended guidelines for management of emissions during construction of projects within the region. The project will comply with Rule 9510 requirements to reduce the NO_x and PM_{10} construction emissions by 20% and 45%, respectively. In addition, the LEU portion of the project would not result in a cumulatively considerable net increase of any pollutants for which the region is in nonattainment under NAAQS and CAAQS, so there would be a less-than-significant impact.

The BMPs in this document follow those SJVAPCD guidelines, thereby further minimizing the project's contribution to regional air quality. Similarly, the projects in Table 7.1-1 also are required to comply with SJVAPCD requirements and pollution thresholds. Therefore, the project will not contribute to a significant cumulative impact to air quality.

7.1.2.4 Biological Resources

PG&E Potential Cumulative Impacts

The PG&E portion of the project would have a less-than-significant impact to any candidate, sensitive, or special-status species populations. The incorporation of APMs and PG&E's SJVHCP AMMs further minimizes the potential for impact. Construction work associated with the project could directly or indirectly (through habitat modification) affect special-status wildlife and nesting birds but will not have a substantial direct or indirect adverse effect on these species. The majority of the project's habitat impacts would be temporary and would be restored to pre-existing conditions following project activities. The only permanent impacts would be associated with foundations for the tubular steel poles, the station facilities, and the 60 kV pole replaced during reconfiguration of existing 60 kV lines.

The majority of potential impacts associated with the PG&E portion of the project would occur within annual grasslands, agricultural land, and existing disturbed or developed areas, and no impacts to riparian habitat or other sensitive natural communities would occur. Furthermore, the project will have no impact on state or federally protected wetlands.

The project will not substantially interfere with the movement of any native resident or migratory fish or wildlife species. However, in the unlikely event that individuals from these species make overland movements during construction activities, fenced work areas, per APM BIO-4, would not impede their movements between the nearest breeding habitat and upland habitat given the amount of surrounding habitat and the limited size of the project footprint at each structure location. APM BIO-2 also will be implemented to minimize any potential impacts to nesting birds. Additional APMs would be implemented to reduce impacts to trees and to reduce potential for electrocution or accidental line collisions by bird species.

The biological impacts of PG&E's portion of the project combined with other area projects will not be cumulatively considerable. The projects listed in Table 7.1-1 could have construction schedules that overlap with the proposed project; however, because these projects are in previously disturbed or developed areas, only minor impacts are expected to occur to associated biological resources. To minimize potential impacts on special-status species and other sensitive biological resources, the project will implement APM BIO-1 through APM BIO-10 and SJVHCP AMM 1 through AMM 11. As a result, the project will not contribute to a cumulative impact.

LEU Potential Cumulative Impacts

The LEU portion of the project would have a less-than-significant impact to candidate, sensitive, or special-status species populations, and the incorporation of BMPs further minimizes the potential for impact. Construction work associated with the project could directly or indirectly (through habitat modification) affect special-status wildlife and nesting birds but will not have a substantial direct or indirect adverse effect on these species. Modification of LEU Industrial Substation and relocation of the LEU 12 kV lines will occur in paved or gravel areas. The only permanent impacts would be associated with the LEU Guild Substation facility, which is located in highly disturbed, ruderal grassland that is surrounded by industrial development.

The majority of potential impacts associated with the LEU portion of the project would occur within annual grasslands and existing disturbed or developed areas, and no impacts to riparian habitat or other sensitive natural communities would occur. Furthermore, the project will have no impact on state or federally protected wetlands.

The LEU portion of the project will not interfere with the movement of any native resident or migratory fish or wildlife species. LEU would implement BMP BIO-2 to minimize any potential impacts to nesting birds.

The biological impacts of LEU's portion of the project combined with other area projects will not be cumulatively considerable. The projects listed in Table 7.1-1 could have construction schedules that overlap with the proposed project; however, because these projects are in previously disturbed or developed areas, only minor impacts are expected to occur to associated biological resources. To minimize potential impacts on special-status species and other sensitive biological resources, the project will implement BMP BIO-1 through BMP BIO-10. As a result, the project will not contribute to a cumulative impact.

7.1.2.5 Cultural Resources

PG&E Potential Cumulative Impacts

The PG&E portion of the project would not result in any significant impacts to cultural resources. Previously recorded cultural resources that intersect the API will be avoided during construction and would not be impacted by the project. Previously unrecorded historical resources within the architectural API will not be significantly impacted by the PG&E's portion of the project because of existing visual intrusions, no physical impacts, and distance from the existing resources.

Recorded archaeological sites within the API will be avoided. With the implementation of APMs, impacts to unknown surface or subsurface archaeological resources would be less than significant. Project operation and maintenance will not be ground disturbing and will occur within city streets, facilities, or electrical line ROWs and no impacts to archaeological resources would occur.

The cultural resource impacts of PG&E's portion of the project combined with other area projects will not be cumulatively considerable. The projects listed in Table 7.1-1 are located outside the proposed project API. In addition, these projects would be expected to perform their own cultural resource surveys and to implement appropriate avoidance and minimization measures, and therefore resulting in only minimal impacts to cultural resources. To minimize the potential impacts of the PG&E portion of the project on cultural resources, the project will implement APM CUL-1 through APM CUL-4. As a result, the project will not contribute to a cumulative impact.

LEU Potential Cumulative Impacts

The LEU portion of the project has no newly identified architectural resources and would not result in any impacts to historic resources. A nearby historic resource would be entirely avoided.

The LEU portion of the project does not have any recorded archaeological sites within its API. With the implementation of BMPs, impacts to unknown surface or subsurface archaeological resources would be less than significant. Project operation and maintenance will not be ground disturbing and will occur within facilities or electrical line ROWs and no impacts to archaeological resources would occur.

The cultural resource impacts of LEU's portion of the project combined with other area projects will not be cumulatively considerable. The projects listed in Table 7.1-1 are located outside the proposed project API. In addition, these projects would be expected to perform their own cultural resource surveys and to implement appropriate avoidance and minimization measures, and therefore resulting in only minimal impacts to cultural resources. To minimize the potential impacts of the PG&E portion of the project on cultural resources, the project will implement BMP CUL-1, BMP CUL-3, and BMP CUL-4. As a result, the project will not contribute to a cumulative impact.

7.1.2.6 Energy

PG&E Potential Cumulative Impacts

The proposed project would not result in wasteful, inefficient, or unnecessary use of energy. PG&E project construction and operation and maintenance activities will consume a minimal amount of fuel (approximately 0.0002% of the statewide gasoline consumption, approximately 0.0065% of statewide diesel consumption, and approximately 0.00032% of statewide jet fuel consumption). PG&E's implementation of APM GHG-1, which minimizes unnecessary construction vehicle idling time, will further reduce energy consumption. Energy consumption during operations of PG&E project components is limited to periodic maintenance vehicle and equipment usage, typical of electrical facilities. Therefore, impacts on energy resources from the project will be less than significant.

Cumulative projects that include long-term energy demand, such as development projects, would be subject to the California Green Building Standards Code, which provides energy efficiency standards for commercial and residential buildings. The California Green Building Standards Code would implement increasingly stringent energy efficiency standards that would require the proposed project and the cumulative projects to minimize the wasteful and inefficient use of energy. In addition, cumulative projects would be required to meet or exceed the Title 24 building standards, further reducing the inefficient use of energy. Future development also would be required to meet even more stringent requirements, including the objectives set in the AB 32 Scoping Plan (CARB 2017). Furthermore, various federal and state regulations, including the Low Carbon Fuel Standard, Pavley Clean Car Standards, and Low Emission Vehicle Program, would serve to reduce the transportation fuel demand of cumulative projects.

In consideration of cumulative energy use, the proposed project would not contribute to a substantial demand on energy resources or services such that new regional energy facilities would be required to be constructed as a result of the incremental increase in energy demand resulting from the proposed project. Therefore, the proposed project would have a less-than-cumulatively-considerable impact with respect to the wasteful or inefficient use of energy. As such, the proposed project would not result in a cumulatively considerable contribution to a potential cumulative impact.

LEU Potential Cumulative Impacts

The proposed project would not result in wasteful, inefficient, or unnecessary use of energy. LEU project construction and operation and maintenance activities will consume a minimal amount of fuel (approximately 0.00002% of the statewide gasoline consumption and approximately 0.0023% of statewide diesel consumption). LEU's implementation of BMP GHG-1, which minimizes unnecessary construction vehicle idling time, will further reduce energy consumption. Energy consumption during operations of LEU project components is limited to periodic maintenance vehicle and equipment usage, typical of electrical facilities. Therefore, impacts on energy resources from the project will be less than significant.

Cumulative projects that include long-term energy demand, such as development projects, would be subject to the California Green Building Standards Code, which provides energy efficiency standards for commercial and residential buildings. The California Green Building Standards Code would implement increasingly stringent energy efficiency standards that would require the proposed project and the cumulative projects to minimize the wasteful and inefficient use of energy. In addition, cumulative projects would be required to meet or exceed the Title 24 building standards, further reducing the inefficient use of energy. Future development also would be required to meet even more stringent requirements, including the objectives set in the AB 32 Scoping Plan (CARB 2017). Furthermore, various federal and state regulations, including the Low Carbon Fuel Standard, Pavley Clean Car Standards, and Low Emission Vehicle Program, would serve to reduce the transportation fuel demand of cumulative projects.

In consideration of cumulative energy use, the proposed project would not contribute to a substantial demand on energy resources or services such that new regional energy facilities would be required to be constructed as a result of the incremental increase in energy demand resulting from the proposed project. Therefore, the proposed project would have a less-than-cumulatively-considerable impact with respect to the wasteful or inefficient use of energy. As such, the proposed project would not result in a cumulatively considerable contribution to a potential cumulative impact.

7.1.2.7 Geology, Soils, and Paleontological Resources

PG&E Potential Cumulative Impacts

The PG&E project components are not within proximity to any active faults, with the nearest active fault approximately 40 miles southwest of the project. No known liquefaction hazard areas were identified in the vicinity of the PG&E project components and geotechnical investigations at the PG&E Lockeford Substation and PG&E Thurman Switching Station did not identify potential for liquefaction. Although the conditions for liquefaction are unlikely along the PG&E transmission line, PG&E would implement APM GEO-1, which will minimize liquefaction hazards that could be exacerbated by strong seismic ground shaking. PG&E project components are located on either level ground or slopes of less than 2% and no mapped landslide hazard areas exist within or adjacent to the PG&E project components. Thus, the impacts from strong shaking and seismic-induced ground failure and liquefaction are less than significant.

Furthermore, project impacts associated with erosion and loss of topsoil during construction of PG&E project components would be minimized because of the limited areas that will be graded and disturbed, the temporary nature of construction, the relatively flat work areas, and the use of standard best practices and dust control measures to minimize fugitive dust emissions and stormwater runoff. PG&E would implement APM GEO-1 and APM HYD-1, which require development and implementation of an SWPPP. Implementation of APM GEO-1 also would apply appropriate design measures as identified in the geotechnical reports based on soil type, reducing impacts from potential unstable geologic units or soil and reducing risks associated with potential expansive soils to a less-than-significant level.

Cumulative projects in Table 7.1-1 would be expected to perform geotechnical investigations and also would be expected to employ appropriate engineering and construction measures. Impacts from those projects generally would be site specific. The cumulative projects do not overlap with the proposed project footprint and would not affect potential project impacts associated with geology or soils. Consequently, the potential combined impacts of the proposed project and other identified projects would not result in a cumulatively considerable impact. The impacts of the proposed project are not individually significant and would not contribute significantly to any potential hazard when considered individually as well as with other related projects that have been identified for development in the area.

The paleontological sensitivity of the soils underlying the proposed project range from “low” to “moderate.” Identification of paleontological resources, even within soils with a relatively greater potential to support the presence of fossils, is relatively infrequent throughout the area surrounding the project site. While it is possible that paleontological resources could be impacted during ground-disturbing activities associated with the proposed activities at PG&E Thurman Switching Station and PG&E Lockeford

Substation and the 230 kV transmission line, the ground-disturbance depths and methods of construction are unlikely to impact or otherwise yield evidence of buried paleontological resources. PG&E's implementation of APM PAL-1 through APM PAL-4, which require a qualified Paleontological Principal Investigator, worker environmental awareness training, and paleontological resource monitoring for select construction activities, would reduce any impacts to paleontological resources resulting from construction of the PG&E project components to less than significant. Cumulative projects in Table 7.1-1 in the vicinity of the PG&E project with excavation activities presumably would implement similar measure in the event that resources are encountered. No substantial contribution to any potential cumulative effects on unknown paleontological resources would occur from development of the other related projects.

LEU Potential Cumulative Impacts

LEU's project components are not within proximity to any active faults, with the nearest active fault approximately 40 miles southwest of the project. No known liquefaction hazard areas were identified in the vicinity of LEU's project components, and geotechnical investigations at the LEU Industrial and Guild substations did not identify potential for liquefaction. LEU would implement BMP GEO-1, which will minimize liquefaction hazards that could be exacerbated by strong seismic ground shaking. LEU project components are located on either level ground or slopes of less than 2%, and no mapped landslide hazard areas exist within or adjacent to the LEU project components. Thus, the impacts from strong shaking and seismic-induced ground failure and liquefaction are less than significant.

Furthermore, project impacts associated with erosion and loss of topsoil during construction of LEU project components would be minimized because of the limited areas that will be graded and disturbed, the temporary nature of the construction, the relatively flat work areas, and the use of standard best practices and dust control measures to minimize fugitive dust emissions and stormwater runoff. LEU would implement BMP GEO-1 and BMP HYD-1, which require development and implementation of an SWPPP. Implementation of BMP GEO-1 also would apply appropriate design measures as identified in the geotechnical reports based on soil type, reducing impacts from potential unstable geologic units or soil and reducing risks associated with potential expansive soils to a less-than-significant level. The cumulative projects in Table 7.1-1 would be expected to employ appropriate engineering and construction measures. Impacts from those projects generally would be site specific. The cumulative projects do not overlap with the proposed project footprint and would not affect potential project impacts associated with geology and soils. Consequently, the potential combined impacts of the proposed project and other identified projects would not result in a cumulatively considerable impact. The impacts of the proposed project are not individually significant and would not contribute significantly to any potential hazard when considered individually as well as with other related projects that have been identified for development in the area.

The paleontological sensitivity of the soils underlying the LEU project components are "moderate." Identification of paleontological resources, even within soils with a relatively greater potential to support the presence of fossils, is relatively infrequent throughout the area surrounding the project site. While it is possible that paleontological resources could be impacted during ground-disturbing activities associated with the proposed activities at LEU Guild and Industrial substations and on the LEU 12 kV feeder line, the ground-disturbance depths and methods of construction are unlikely to impact or otherwise yield evidence of buried paleontological resources. LEU's implementation of BMP PAL-1 through BMP PAL-3, which require a qualified Paleontological Principal Investigator, worker environmental awareness training, and paleontological resource monitoring for select construction activities, would reduce any impacts to paleontological resources resulting from construction of the LEU project components to less than significant. Cumulative projects in Table 7.1-1 in the vicinity of the PG&E project with excavation activities presumably would implement similar measures in the event that resources are encountered. No substantial contribution to any potential cumulative effects on unknown paleontological resources would occur from development of the other related projects.

7.1.2.8 Greenhouse Gas Emissions

PG&E Potential Cumulative Impacts

GHG emissions from global climate change are a cumulative impact; a project participates in this potential impact through its contribution combined with the cumulative increase of all other sources of GHG emissions. Short-term amortized GHG emissions associated with proposed project construction would result in annualized generation of 103.69 MT CO_2e with implementation of APM AIR-1 and APM AIR-2. The total operational GHG emissions would be 90.37 MT CO_2e per year. The combined total GHG emissions (operations and amortized construction) would be 194.06 MT CO_2e per year, with implementation of APM GHG-1, which is lower than the significance threshold of 10,000 MT CO_2e per year. The 10,000 MT CO_2e per year threshold was derived from emissions data from the four largest air districts in California and is based on the Executive Order S-3-05 GHG emissions reductions goal of 80% below 1990 levels by 2050. As a result, the proposed project would not contribute significantly to the emissions associated with the construction of other projects planned in the area that could be underway at the same time, and thus the impact would not be cumulatively considerable.

LEU Potential Cumulative Impacts

GHG emissions from global climate change is a cumulative impact; a project participates in this potential impact through its contribution combined with the cumulative increase of all other sources of GHG emissions. Short-term amortized GHG emissions associated with proposed project construction would result in annualized generation of 37.40 MT CO_2e with implementation of BMP AIR-1 and BMP AIR-2. The total operational GHG emissions would be 484.49 MT CO_2e per year. The combined total GHG emissions (operations and amortized construction) would be 521.89 MT CO_2e per year, with implementation of BMP GHG-1, which is lower than the significance threshold of 10,000 MT CO_2e per year. As a result, the proposed project would not contribute significantly to the emissions associated with the construction of other projects planned in the area that could be underway at the same time, and thus it would not be cumulatively considerable.

7.1.2.9 Hazards, Hazardous Materials, and Public Safety

PG&E Potential Cumulative Impacts

All potential construction impacts related to hazards, hazardous materials, and accidents involving hazardous materials are considered less than significant with implementation of APM HAZ-2, APM HAZ-3, and APM HAZ-4. During construction activities, there is an increased potential for accidental release of hazardous materials from operation of vehicles or motorized pieces of equipment. Because hazardous materials will be transported, used, and disposed of in accordance with appropriate procedures, the project will not create a significant hazard to the public or environment. Any impacts will be less than significant, and PG&E's existing worker safety training programs described in APM HAZ-2, APM HAZ-3, and APM HAZ-4 will further reduce less-than-significant impacts. To reduce shock hazards and avoid electrocution of workers or the public, PG&E would comply with the provisions found in Cal/OSHA Title 8 of the CCR, particularly the electrical health and safety regulations found in Chapter 4, Subchapter 5 in the Electrical Safety Orders, Sections 2700–2989, which are relevant to high-voltage work. During construction, PG&E also will implement APM WFR-1 and APM WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

In accordance with APM HAZ-5, potentially contaminated soil that has not been precharacterized will be stockpiled separately to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities (using indicators such as sheen, odor, and soil discoloration), work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment.

Impacts from monthly maintenance and operational activities occurring at PG&E Lockeford Substation and PG&E Thurman Switching Station would be less than significant with implementation a site-specific SPCC Plan and an HMBP as required.

Cumulative projects listed in Table 7.1-1 in also have the potential to disturb potentially contaminated soils or result in accidental releases of hazardous materials. These projects would be expected to characterize soils and sediments and follow applicable regulations for characterization, handling, and disposing of soils or work within areas of potentially contaminated sediments. Only one cumulative project, PG&E Bellota-Warnerville 230 kV Reconductor, is within 0.25 mile of the project.

The impacts of the proposed project related to hazards or hazardous materials are not individually significant with implementation of APM HAZ-1 through APM HAZ-4. Furthermore, cumulative effects of this and other related excavation projects would not be significant, because each project must similarly follow the applicable federal and state rules and regulations required to ensure that no substantial impacts occur.

LEU Potential Cumulative Impacts

All potential construction impacts related to hazards, hazardous materials, and accidents involving hazardous materials are considered less than significant with implementation of BMP HAZ-2, BMP HAZ-3, and BMP HAZ-4. During construction activities, there is an increased potential for accidental release of hazardous materials from operation of vehicles or motorized pieces of equipment. Because hazardous materials will be transported, used, and disposed of in accordance with appropriate procedures, the project will not create a significant hazard to the public or environment. Any impacts will be less than significant, and LEU's existing worker safety training programs described in BMP HAZ-2, BMP HAZ-3, and BMP HAZ-4 will further reduce less-than-significant impacts. To reduce shock hazards and avoid electrocution of workers or the public, LEU would comply with the provisions found in Cal/OSHA Title 8 of the CCR, particularly the electrical health and safety regulations found in Chapter 4, Subchapter 5 in the Electrical Safety Orders, Sections 2700-2989, which are relevant to high-voltage work. During construction, LEU will implement BMP WFR-1 and BMP WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

In accordance with BMP HAZ-5, potentially contaminated soil that has not been precharacterized will be stockpiled separately to be tested, managed, and transported for disposal as appropriate. If suspected hazardous substances or waste are unexpectedly encountered during trenching activities (using indicators such as sheen, odor, and soil discoloration), work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment.

Impacts from monthly maintenance and operational activities occurring at LEU Industrial and LEU Guild substations would be less than significant with implementation a site-specific SPCC Plan and an HMBP as required.

Cumulative projects listed in Table 7.1-1 in also have the potential to disturb potentially contaminated soils or result in accidental releases of hazardous materials. These projects would be expected to characterize soils and sediments and follow applicable regulations for characterization, handling, and disposing of soils or work within areas of potentially contaminated. However, none of the cumulative projects in Table 7.1-1 is within 0.25 mile of the LEU project component.

The impacts of the proposed project related to hazards or hazardous materials are not individually significant with implementation of BMP-HAZ-1 through BMP HAZ-4. Furthermore, cumulative effects of this and other related excavation projects would not be significant, because each project must similarly follow the applicable federal and state rules and regulations required to ensure that no substantial impacts occur.

7.1.2.10 Hydrology and Water Quality

PG&E Potential Cumulative Impacts

Project construction activities at PG&E Lockeford Substation, PG&E Thurman Switching Station, the PG&E 230 kV transmission line and staging areas have the potential to affect water quality temporarily, but impacts would be less than significant. Implementation of APM HYD-1 through APM HYD-4 would further reduce less-than-significant impacts to hydrology and water quality. The cumulative projects listed in Table 7.1-1 that could have an effect on water quality would be those construction projects in areas draining to the Bear Creek. These projects would be subject to the same federal, state, and local regulations regarding drainage plans and flooding potential as the proposed project and typically would be required to draft and implement an SWPPP with specific provisions that address erosion and sedimentation control during construction and operation. These impacts would be localized and controlled at the source and would not be considerable in relation to other cumulative projects; therefore, the proposed project would not contribute substantially to any potential cumulative impacts on hydrology and water quality.

LEU Potential Cumulative Impacts

Project construction activities at the proposed LEU Guild Substation and LEU Industrial Substation and the 12 kV feeder line areas and staging areas have the potential to affect water quality temporarily, but impacts would be less than significant. Implementation of BMP HYD-1 through BMP HYD-4 would further reduce less-than-significant impacts to hydrology and water quality. The cumulative projects listed in Table 7.1-1 that could have an effect on water quality would be those construction projects in areas draining to the Bear Creek. These projects would be subject to the same federal, state, and local regulations regarding drainage plans and flooding potential as the proposed project and typically would be required to draft and implement an SWPPP with specific provisions that address erosion and sedimentation control during construction and operation. These impacts would be localized and controlled at the source and would not be considerable in relation to other cumulative projects; therefore, the proposed project would not contribute substantially to any potential cumulative impacts on hydrology and water quality.

7.1.2.11 Noise

PG&E Potential Cumulative Impacts

Project construction of PG&E project components would be consistent with local noise ordinances and would not result in exposure of persons to or generation of noise levels in excess of local noise ordinances or applicable standards. At each PG&E 230 kV transmission line structure location, construction activities will be short term (typically several days), temporary, and are limited to daytime hours compatible with local noise ordinances. San Joaquin County exempts noise from construction activities that take place between 6:00 a.m. and 9:00 p.m. and project construction activities are planned to occur between 7:00 a.m. and 7:00 p.m. Unplanned nighttime work would be infrequent, occur in limited locations, and would be short term. If construction occurs at night, PG&E will implement APM NOI-1 and APM NOI-5, which require advance notice to property owners near construction activities. The cumulative projects listed in Table 7.1-1 may have overlapping construction periods but would be subject to the same noise ordinances, and all but one project are more than 2,000 feet from the proposed PG&E project. Construction of the project will result in a less-than-significant impact and would not contribute substantially to any potential cumulative noise impacts.

Corona noise associated with moisture on the new electrical wires is anticipated to be minimal and below the San Joaquin County performance standards of 70 A-weighted decibels (dBA) maximum sound level and below the outdoor activities noise guideline of 55 dBA. Long-term audible noise at PG&E Lockeford Substation and PG&E Thurman Switching Station is not expected to increase from existing substation equipment for the proposed modifications. For maintenance activities involving noise-generating

equipment or vehicles, noise-reduction measures will be employed to reduce temporary noise impacts as described in APM NOI-1 through APM NOI-7. Therefore, during operation and maintenance of PG&E project components, the impacts will be less than significant. As noted previously, all but one of the cumulative projects in Table 7.1-1 are more than 2,000 feet from the proposed PG&E project. That project, the PG&E Bellota-Warnerville 230 kV Reconductor, would be expected to meet the same noise standards and implement the same noise-reduction measures as the proposed project.

The PG&E project components would not result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels. Construction-related groundborne vibration and noise will occur during daytime hours and will be short term in duration. Equipment associated with normal operation and maintenance of the proposed project will not produce any groundborne noise or vibration. Therefore, the proposed project will result in a less-than-significant impact.

LEU Potential Cumulative Impacts

Construction of LEU's portion of the project will be consistent with the City of Lodi noise ordinance and would not result in exposure of persons to or generation of noise levels in excess of local noise ordinances or applicable standards. Construction activities are planned to take place during daytime hours compatible with the local noise ordinance. Unplanned nighttime work would be infrequent and would be short term. If construction occurs at night, LEU will implement BMP NOI-1 and BMP NOI-5, which require advance notice to property owners near construction activities. The cumulative projects listed in Table 7.1-1 may have overlapping construction periods but would be subject to the same noise ordinance and all are more than 2,000 feet from the proposed LEU project components. Construction of the project will result in a less-than-significant impact and would not contribute substantially to any potential cumulative noise impacts.

Long-term noise associated with the stationary electrical equipment operating at LEU Guild Substation is expected to have sound levels at the boundary of Lodi Memorial Park and Cemetery of 38 dBA, which is less than the applicable code requirement. The proposed substation is located within an industrial area and is not anticipated to exceed local noise standards for residential uses. Operational noise at LEU Industrial Substation is not expected to change. Therefore, during operation and maintenance of LEU project components, the impacts will be less than significant.

The LEU project components would not result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels. Construction-related groundborne vibration and noise will occur during daytime hours and will be short term in duration. Equipment associated with normal operation and maintenance of the proposed project will not produce any groundborne noise or vibration. Therefore, the proposed project will result in a less-than-significant impact.

7.1.2.12 Transportation

PG&E Potential Cumulative Impacts

Project construction will not conflict with any policies, plans, or programs that support alternative transportation. Most construction activities will occur within PG&E's new (acquired as part of the proposed project) or existing property, franchise, or ROW. The anticipated temporary and short-term construction-related traffic impacts will be to truck routes and project area access routes. Temporary road closures may be required at various locations to ensure public safety. Any lane closures will be temporary and short term, and PG&E closures will be coordinated with Caltrans or local jurisdictions to reduce the impacts to potential temporary and short-term emergency access. In addition to traffic control and other safety measures, PG&E would provide, as part of the Traffic Management Plan, notification to property owners and businesses in advance of work. In addition, where the installation of guard structures is required, APM TRA-1, which requires that traffic controls and other traffic safety measures be in place to maintain proper traffic flow, will further reduce any impacts. Implementation of APM TRA-2 will restore all removed or damaged curbs, gutters, sidewalks, and paved surfaces, as necessary.

The construction vehicle trips and associated VMT would be temporary, minimizing the potential long-term impact of the proposed project in terms of greenhouse gas emissions. When construction is completed, construction-related traffic will cease and VMT levels will return to pre-existing conditions with minimal and infrequent trips generated, as described in Section 5.17.4.3. The project will not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b).

Proposed bikeways are located within 1,000 feet of the PG&E project components along South Guild Avenue, East Lodi Avenue, East Victor Road (SR 12), and East Lockeford Street; however, because construction activities are temporary in nature, potentially hazardous conditions will be less than significant. Furthermore, the project impact on walking and bicycling accessibility will be less than significant.

Cumulative projects listed in Table 7.1-1 that may be under construction at the same time have the potential for a cumulative impact on traffic and transportation in the area; however, with proper coordination and development of traffic control plans with permitting entities, no significant cumulative construction impacts to traffic or transportation are expected to occur.

The operation of the proposed project would generate minimal traffic only, as required for routine patrolling and maintenance. Therefore, the proposed project would not contribute to long-term cumulative impacts to traffic.

LEU Potential Cumulative Impacts

Most construction activities will occur within LEU's existing property or ROW. Work within public ROW will be limited to construction activities in, along, or crossing roadways and sidewalks within the City of Lodi. Any necessary encroachment permits will be obtained from the affected agencies or entities. Temporary lane closures also will be required at various locations for public safety. Any lane closures will be temporary and short term, and these closures will be coordinated with local jurisdictions to reduce the impacts to potential temporary and short-term emergency access. In addition, BMP TRA-1, which requires that traffic controls and other traffic safety measures be in place to maintain proper traffic flow, will further reduce any impacts. Implementation of BMP TRA-2 will restore all removed or damaged curbs, gutters, sidewalks, and paved surfaces, as necessary.

Proposed bikeways are located within 1,000 feet of the LEU project components along East Lodi Avenue and South Guild Avenue; however, because construction activities are temporary in nature, potentially hazardous conditions will be less than significant. Furthermore, the project impact on walking and bicycling accessibility will be less than significant.

Cumulative projects listed in Table 7.1-1 that may be under construction at the same time have the potential for a cumulative impact on traffic and transportation in the area; however, with proper coordination and development of traffic control plans with permitting entities, no significant cumulative construction impacts to traffic or transportation are expected to occur.

The operation of the proposed project would generate minimal traffic only, as required for routine patrolling and maintenance. Therefore, the proposed project would not contribute to long-term cumulative impacts to traffic.

7.1.2.13 Tribal Cultural Resources

PG&E Potential Cumulative Impacts

The project's potential cumulative effects on tribal cultural resources as it pertains to the PG&E portion of the project will be evaluated by the CPUC during the AB 52 process.

LEU Potential Cumulative Impacts

The project's potential cumulative effects on tribal cultural resources as it pertains to the LEU portion of the project will be evaluated by the CPUC during the AB 52 process.

7.1.2.14 Utilities and Service Systems

PG&E Potential Cumulative Impacts

The PG&E portion of the project will not require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, or natural gas facilities that could cause significant environmental effects. However, the project includes planned modification of existing electric power facilities that will relocate or expand existing and construct new electric transmission, power, distribution, and telecommunication facilities. Those activities will maintain or improve some utilities and will result in less-than-significant impacts to utilities and service systems during construction and relocation activities. The PG&E 230 kV transmission line structures are located to avoid known well locations. It is not anticipated that wells will need to be relocated as part of the proposed project. Furthermore, cumulative effects of this and projects listed in Table 7.1-1 would not be significant and no substantial impacts would occur.

LEU Potential Cumulative Impacts

The LEU portion of the project will not require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, natural gas, or telecommunications facilities that could cause significant environmental effects. However, the project includes planned modification of existing electric power facilities that will relocate or expand existing and construct new electric transmission, power, distribution, and telecommunication facilities. Those activities will maintain or improve some utilities and will result in a less-than-significant impact during construction and relocation. Because the project will have less-than-significant impacts on utilities and service systems, no BMPs are proposed. Furthermore, cumulative effects of this and projects listed in Table 7.1-1 would not be significant and no substantial impacts would occur.

7.1.2.15 Wildfire

PG&E Potential Cumulative Impacts

The PG&E portion of the project will not have occupants and, therefore, will not potentially expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire caused by slope, prevailing winds, or other factors. The PG&E project components in the main portion of the project and the three PG&E remote-end substations (Brighton, Bellota, and Rio Oso) are not located in or near state responsibility areas or lands classified as very high FHSZs and are not in areas of slope, prevailing winds, or other known factors that would exacerbate wildfire risks. None of the project components are designed for human occupancy. PG&E Clayton Hill Repeater Station, an existing paved and fenced communication station with paved access, is within an SRA that is identified as a high FHSZ. Station access is on a paved road to this paved and fenced telecommunication facility. Additionally, project-related activities will be limited in duration and will not be ground-disturbing or include activities that would produce a spark, fire, or flames. Therefore, Project-related activities at PG&E Clayton Hill Repeater Station have a minimal potential for exacerbating wildfire risks. To further minimize wildfire risk during construction activities, PG&E will implement APM WFR-1 and APM WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area.

The project installation or maintenance of associated PG&E infrastructure would not exacerbate fire risk or result in temporary or ongoing impacts to the environment. The new and modified electrical lines, substations, and switching station are similar in nature to the existing project components that will be

modified or extended during construction and other existing PG&E lines in the area. The new and modified PG&E electrical infrastructure would be a negligible increase to potential for wildfire risk in the main portion of the project outside of an SRA or very high FHSZ. Although other projects in the vicinity have the potential to increase potential wildfire risks, they must comply with all relevant wildfire policies. Cumulative effects of this and other related projects would not be significant and no substantial impacts would occur.

LEU Potential Cumulative Impacts

The LEU portion of the project is not located within or near an SRA or within lands classified as very high FHSZs. During construction, LEU will implement BMP WFR-1 and BMP WFR-2 requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area. The project will not have occupants and, therefore, will not potentially expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire caused by slope, prevailing winds, or other factors.

The LEU project portion will require the installation and maintenance of electrical infrastructure; however, no associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment is required. During construction, LEU will implement BMP WFR-1 and BMP WFR-2, requiring workers to be trained in fire prevention practices and carry emergency fire suppression equipment to reduce the wildland fire risk in the project area. Installation or maintenance of the electrical facilities associated with the LEU portion of the project will not exacerbate fire risk or result in temporary or ongoing impacts to the environment. Although other projects in the vicinity have the potential to increase potential wildfire risks, they must comply with all relevant wildfire policies. Cumulative effects of this and other related projects would not be significant and no substantial impacts would occur.

7.2 Growth-Inducing Impacts

The following criteria, derived from CEQA Guidelines Section 15126.2(d), are used to evaluate whether the project will result in potential individual or cumulative growth-inducing impacts:

- Any economic or population growth in the surrounding environment that will directly or indirectly result from the proposed project
- Any increase in population that could further tax existing community service facilities (schools, hospitals, fire, police), which will directly or indirectly result from the proposed project
- Any obstacles to population growth that the proposed project would remove
- Any other activities, directly or indirectly encouraged or facilitated by the proposed project, that would cause population growth that could significantly affect the environment, either individually or cumulatively

The project will not, either directly or indirectly, foster economic or population growth. While the proposed project will improve the overall system capability to adequately serve the existing and forecasted load demand, it is not intended to supply power related to potential growth for a particular development and will not lead to growth in areas not previously approved for growth by local agencies. Improved system reliability will not generate new development and the project does not propose new housing, businesses, or other land use changes that will induce economic or population growth in the area. Therefore, no project-related or cumulative growth-inducing impacts are expected.

Project operation will not provide new employment. Operation and maintenance of the new or modified project components will be performed by existing PG&E or LEU workers and will not change from the existing procedures. Construction workers will consist primarily of either existing PG&E, LEU, or contracted workers in the local area or workers who commute from the neighboring cities. Because the construction duration will be relatively short (approximately 34 months, with gaps when no construction will occur), it is

not expected that the construction workers from outside the area will permanently relocate to the area. Because construction will be temporary and operation and maintenance will not create new jobs, any changes to economic and population growth will be less than significant.

The project will not place a higher demand on existing community services. Water needed during project construction and operation will be transported to the site. Wastewater will not result from project operation. As discussed in Section 5.14, Population and Housing, and Section 5.15, Public Services, existing community services are sufficient to serve the project for both the short and long term, and no new housing will be required for construction. Operation and maintenance will be provided by existing crews.

The project will not remove any obstacles to growth in the area. As noted previously, the project will not extend power distribution or other infrastructure into areas not already served. A primary purpose of the proposed project is to address reliability and accommodate forecasted capacity increases. Although the project will strengthen the existing power infrastructure and increase the capacity of the electrical system to deliver renewable energy, the development of power infrastructure is a response to California's renewable energy resources mandate. San Joaquin County planning documents already permit and anticipate a certain level of growth in the area of the project, and this project will not affect that level of growth.

8 List of Preparers

Many PG&E, City of Lodi, and Northern California Power Association employees and representatives contributed to preparation of, or reviewed and commented on drafts of, the Proponent's Environmental Assessment. In addition, the consultants listed in the following table provided support to PG&E in preparing this document.

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4 Description of Alternatives	Andrea Gardner, ACIP, PMP	Senior Environmental Planner, Jacobs • M.A. Urban Planning and Environmental Policy, University of California, Los Angeles • B.S. Mathematics, Stanford University
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5.2 Agriculture and Forestry	Valisa Nez, J.D.	Project Manager, Jacobs • J.D., Law, University of Arizona • M.S., Environmental Earth Science, Dartmouth College • B.A., Earth Science, Dartmouth College
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5.20 Wildfire	Colleen Taylor	Principal Project Manager/Portfolio Manager, Jacobs • M.S. Environmental Management, University of San Francisco • B.S. Environmental Science, University of San Francisco
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Appendices

Appendix 1A
List of Parcels Within 300 Feet of Project

Appendix 1A
List of Parcels Within 300 Feet of Project

APN	SITE_ADDRESS	SITE_CITY	SITE_STATE	SITE_ZIPCODE	MAIL_ADDRESS	MAIL_CITY	MAIL_STATE	MAIL_ZIPCODE
049-060-29	1101 E LODI AVE	LODI	CA	952403156	2181 N TRACY BLVD 170	TRACY	CA	953762424
049-090-12	5890 E PINE ST	LODI	CA	95240	15504 QUAIL RUN DR	NORTH POTOMAC	MD	208783401
049-090-13	1560 E PINE ST	LODI	CA	952400837	901 S CHEROKEE LN	LODI	CA	952404304
049-090-21			CA		920 SE QUINCY ST	TOPEKA	KS	666121116
049-090-26	5750 E PINE ST	LODI	CA	952400828	15504 QUAIL RUN DR	NORTH POTOMAC	MD	208783401
049-090-43	1303 E LODI AVE	LODI	CA	952400840	1303 E LODI AVE	LODI	CA	952400840
049-111-01	6058 E PINE ST	LODI	CA	952400816	6058 E PINE ST	LODI	CA	952400816
049-111-02	6195 E SARGENT RD	LODI	CA	952409342	PO BOX 247	ACAMPO	CA	952200247
049-111-03	6250 E PINE ST	LODI	CA	952400816	309 TIOGA DR	LODI	CA	952422649
049-111-04	6324 E PINE ST	LODI	CA	95240	15506 N CURRY AVE	LODI	CA	952409338
049-112-01	16463 N CURRY AVE	LODI	CA	95240	2204 ROCKWELL DR	DAVIS	CA	956187615
049-112-02	16141 N CURRY AVE	LODI	CA	952409105	901 S CHEROKEE LN	LODI	CA	952404304
049-112-03	15933 N CURRY AVE	LODI	CA	95240	1 N CHEROKEE LN	LODI	CA	952402411
049-113-07	16588 N CURRY AVE	LODI	CA	952409507	PO BOX 810	VICTOR	CA	952530810
049-114-01	6680 E SARGENT RD	LODI	CA	952409341	4 EVERGREEN DR	LODI	CA	952428307
049-120-34	6100 E STATE ROUTE 12	LODI	CA	95240	PO BOX 440	LODI	CA	952410440
049-120-39			CA		920 SE QUINCY ST	TOPEKA	KS	666121116
049-120-42	6093 E PINE ST	LODI	CA	952400815	PO BOX 350	LODI	CA	952410350
049-120-65	6011 E PINE ST	LODI	CA	952400815	PO BOX 350	LODI	CA	952410350
049-130-64	1649 E VICTOR RD	LODI	CA	952403217	PO BOX 700	VICTOR	CA	952530700
049-190-45	1377 E LODI AVE	LODI	CA	952400840	1377 E LODI AVE	LODI	CA	952400840
049-190-53	201 S GUILD AVE	LODI	CA	952403205	201 S GUILD AVE	LODI	CA	952403205
049-190-54	255 S GUILD AVE	LODI	CA	952403206	2137 PETER AVE	SOUTH LAKE TAHOE	CA	961504410
049-190-57	171 S GUILD AVE	LODI	CA	952403203	133 COMMERCE ST 103	LODI	CA	952400845
049-190-59	170 COMMERCE ST	LODI	CA	952403210	133 COMMERCE ST 103	LODI	CA	952400845
049-230-01	15661 N CURRY AVE	LODI	CA	952409338	10651 E HARNEY LN	LODI	CA	952409112
049-230-06	15505 N CURRY AVE	LODI	CA	952409338	13600 N CURRY AVE	LODI	CA	952409202
049-230-07	15403 N CURRY AVE	LODI	CA	952409338	15415 N CURRY AVE	LODI	CA	952409338
049-230-08	15415 N CURRY AVE	LODI	CA	952409338	15415 N CURRY AVE	LODI	CA	952409338

Appendix 1A
List of Parcels Within 300 Feet of Project

APN	SITE_ADDRESS	SITE_CITY	SITE_STATE	SITE_ZIPCODE	MAIL_ADDRESS	MAIL_CITY	MAIL_STATE	MAIL_ZIPCODE
049-230-11	6021 E KETTLEMAN LN	LODI	CA	952406400	6021 E KETTLEMAN LN	LODI	CA	952406400
049-230-12	15155 N CURRY AVE	LODI	CA	95240	3800 E ACAMPO RD	ACAMPO	CA	952208300
049-310-02			CA		920 SE QUINCY ST	TOPEKA	KS	666121116
049-310-05	5990 E SARGENT RD	LODI	CA	952409342	1510 SMITH GRADE	BONNY DOON	CA	950609774
049-310-08	1215 THURMAN ST	LODI	CA	95240	22 W PINE ST	LODI	CA	95240
049-310-09			CA		PO BOX 3006	LODI	CA	952411910
049-310-13	1330 THURMAN ST	LODI	CA	952403145	904 CARIBBEAN DR	SUNNYVALE	CA	94089
049-310-43			CA		920 SE QUINCY ST	TOPEKA	KS	666121116
049-310-78	590 S GUILD AVE	LODI	CA	95240	631 N CLUFF AVE	LODI	CA	952400756
049-310-79			CA		PO BOX 1420	LODI	CA	952411420
049-310-80			CA		PO BOX 1420	LODI	CA	952411420
049-340-36	350 N GUILD AVE	LODI	CA	952400803	PO BOX 1470	DECATUR	IL	625251820
051-260-07	15289 N JACK TONE RD	LODI	CA	95240	PO BOX 671	LODI	CA	952410671
051-260-08	15153 N JACK TONE RD	LODI	CA	952409708	PO BOX 671	LODI	CA	952410671
051-260-10	13211 E KETTLEMAN LN	LODI	CA	952409741	13211 E KETTLEMAN LN	LODI	CA	952409741
051-260-11	13137 E KETTLEMAN LN	LODI	CA	952409741	13137 E KETTLEMAN LN	LODI	CA	952409741
051-260-13	12971 E KETTLEMAN LN	LODI	CA	952409741	12971 E KETTLEMAN LN	LODI	CA	952409741
051-260-19	12401 E KETTLEMAN LN	LODI	CA	952409776	PO BOX 226	LINDEN	CA	952360226
051-260-22	12861 E KETTLEMAN LN	LODI	CA	95240	77 BEALE ST	SAN FRANCISCO	CA	941051814
051-260-23	12651 E KETTLEMAN LN	LODI	CA	95240	77 BEALE ST	SAN FRANCISCO	CA	941051814
051-260-32	12901 E KETTLEMAN LN	LODI	CA	95240	2033 GATEWAY CIR	LODI	CA	952406728
053-040-10	14901 E KETTLEMAN LN	LODI	CA	95240	PO BOX 226	LINDEN	CA	952360226
053-040-13	14049 E KETTLEMAN LN	LODI	CA	952409747	2571 ROBERTS RD	TURLOCK	CA	953829507
053-040-18	15510 N JACK TONE RD	LODI	CA	952409708	PO BOX 997	LODI	CA	952410997
053-040-19	14613 E KETTLEMAN LN	LODI	CA	952409743	14613 E KETTLEMAN LN	LODI	CA	952409743
053-040-20	14433 E KETTLEMAN LN	LODI	CA	952409747	14433 E KETTLEMAN LN	LODI	CA	952409747
053-040-27	15278 N JACK TONE RD	LODI	CA	952409708	10733 RIVERMONT DR	STOCKTON	CA	952094567
053-040-28	13749 E KETTLEMAN LN	LODI	CA	952409746	13749 E KETTLEMAN LN	LODI	CA	952409746
053-040-42	14239 E KETTLEMAN LN	LODI	CA	952409747	222 S 9TH ST 1600	MINNEAPOLIS	MN	554023382

APN	SITE_ADDRESS	SITE_CITY	SITE_STATE	SITE_ZIPCODE	MAIL_ADDRESS	MAIL_CITY	MAIL_STATE	MAIL_ZIPCODE
053-080-10	15200 N JORY RD	LODI	CA	95240	15200 N JORDY RD	LODI	CA	95240
053-080-12								
053-080-13	15801 E KETTLEMAN LN	LODI	CA	952409753	15801 E KETTLEMAN LN	LODI	CA	952409753
053-080-17	15330 SMITH RD	LODI	CA	952409764	4169 SCOTTSDALE RD	LODI	CA	952406821
053-080-18	15265 E KETTLEMAN LN	LODI	CA	95240	PO BOX 62	WOODBRIDGE	CA	952580062
053-080-20	15467 E KETTLEMAN LN	LODI	CA	952409753	8075 WAYLAND RD	LOOMIS	CA	956509403
053-140-09	17535 E KETTLEMAN LN	LODI	CA	952409749	17535 E KETTLEMAN LN	LODI	CA	952409749
053-140-10	15250 LINN RD	LODI	CA	952409203	15250 LINN RD	LODI	CA	952409203
053-140-12	15465 LINN RD	LODI	CA	952409203	15465 LINN RD	LODI	CA	952409203
053-140-17	15151 LINN RD	LODI	CA	95240	16925 E KETTLEMAN LN	LODI	CA	952409727
053-140-18	16925 E KETTLEMAN LN	LODI	CA	952409727	16925 E KETTLEMAN LN	LODI	CA	952409727
053-140-20	15466 LINN RD	LODI	CA	952409203	15466 LINN RD	LODI	CA	952409203
053-160-09	16251 CLEMENTS RD	LODI	CA	952409615	16251 CLEMENTS RD	LODI	CA	952409615
061-030-41	14660 WELLS LN	LODI	CA	952406422	14660 WELLS LN	LODI	CA	952406422
061-050-05	6042 E KETTLEMAN LN	LODI	CA	95240	PO BOX 2607	LODI	CA	952412607
061-050-09	6312 E KETTLEMAN LN	LODI	CA	952409447	15299 N ALPINE RD	LODI	CA	952409331
061-050-13	6030 E KETTLEMAN LN	LODI	CA	952406410	PO BOX 2507	LODI	CA	952412507
061-131-02	14541 N CURRY AVE	LODI	CA	952409481	14541 N CURRY AVE	LODI	CA	952409481
061-131-17	14401 N CURRY AVE	LODI	CA	95240	15506 N CURRY AVE	LODI	CA	952409338
061-132-11	7106 E KETTLEMAN LN	LODI	CA	952409483	5631 E KETTLEMAN LN	LODI	CA	952406411
061-132-30	14550 N CURRY AVE	LODI	CA	952409481	14541 N CURRY AVE	LODI	CA	952409481
061-132-32	14750 N CURRY AVE	LODI	CA	95240	5490 BEAR CREEK RD	LODI	CA	952407213
061-132-42	14453 N VINTAGE RD	LODI	CA	952409435	PO BOX 401	VICTOR	CA	952530401
061-133-01	7150 E KETTLEMAN LN	LODI	CA	952409483	822 S ROSE ST	LODI	CA	952404625
061-133-02	7280 E KETTLEMAN LN	LODI	CA	952409483	7280 E KETTLEMAN LN	LODI	CA	952409483
061-133-03	7362 E KETTLEMAN LN	LODI	CA	952409483	PO BOX 836	WOODBRIDGE	CA	952580836
061-133-04	7452 E KETTLEMAN LN	LODI	CA	952409451	7319 E KETTLEMAN LN	LODI	CA	952409483
061-133-05	14496 N VINTAGE RD	LODI	CA	952409435	PO BOX 1358	LOCKEFORD	CA	952371358
061-133-19	14537 N ALPINE RD	LODI	CA	952409421	PO BOX 577	ACAMPO	CA	952200577

Appendix 1A
List of Parcels Within 300 Feet of Project

APN	SITE_ADDRESS	SITE_CITY	SITE_STATE	SITE_ZIPCODE	MAIL_ADDRESS	MAIL_CITY	MAIL_STATE	MAIL_ZIPCODE
061-133-27	7540 E KETTLEMAN LN	LODI	CA	952409451	7540 E KETTLEMAN LN	LODI	CA	952409451
061-133-31	14415 N ALPINE RD	LODI	CA	952409421	51 MARIPOSA ST	BRISBANE	CA	940051532
061-133-32	14206 N VINTAGE RD	LODI	CA	952409435	14206 N VINTAGE RD	LODI	CA	952409435
063-070-22	14408 N ALPINE RD	LODI	CA	952409421	14408 N ALPINE RD	LODI	CA	952409421
063-070-50	14170 N ALPINE RD	LODI	CA	952409433	14170 N ALPINE RD	LODI	CA	952409433
063-070-62	14090 N ALPINE RD	LODI	CA	952409433	14000 N ALPINE RD	LODI	CA	952409433
063-070-66	14234 N ALPINE RD	LODI	CA	952409433	14234 N ALPINE RD	LODI	CA	952409433
063-070-68								
063-150-17	14262 N LOCUST TREE RD	LODI	CA	952409329	695 N PLUMAS DR	MOUNTAIN HOUSE	CA	953911229
063-150-35	14117 N LOCUST TREE RD	LODI	CA	952409329	14117 N LOCUST TREE RD	LODI	CA	952409329
063-150-36	14309 N LOCUST TREE RD	LODI	CA	952409219	PO BOX 816	VICTOR	CA	952530816
063-150-46	13915 N LOCUST TREE RD	LODI	CA	952409329	13915 N LOCUST TREE RD	LODI	CA	952409329
063-150-47	14051 N LOCUST TREE RD	LODI	CA	95240	10826 E KETTLEMAN LN	LODI	CA	952409701
063-150-50	14365 N LOCUST TREE RD	LODI	CA	95240	9816 FOLSOM DR	LAS VEGAS	NV	891347500
063-160-17	14345 N STATE ROUTE 88	LODI	CA	95240	14345 N HIGHWAY 88	LODI	CA	952409312
063-160-18	14300 N LOCUST TREE RD	LODI	CA	952409219	14300 N LOCUST TREE RD	LODI	CA	952409219
063-160-32			CA		21471 N DES MOINES RD	ACAMPO	CA	952209701
063-160-33	14051 N STATE ROUTE 88	LODI	CA	95240	55 NOBEL AVE	LODI	CA	952429734
063-160-34	14454 N STATE ROUTE 88	LODI	CA	95240	PO BOX 2244	LODI	CA	952412244
063-160-35	11891 E HARNEY LN	LODI	CA	95240	374 LINCOLN CTR	STOCKTON	CA	952072628
063-250-16	12021 E HARNEY LN	LODI	CA	952409313	12754 E HARNEY LN	LODI	CA	952409382
063-250-21	12371 E HARNEY LN	LODI	CA	952409375	12371 E HARNEY LN	LODI	CA	952409375
063-250-22	12385 E HARNEY LN	LODI	CA	952409375	12385 E HARNEY LN	LODI	CA	952409375
093-100-05	24340 E MILTON RD	LINDEN	CA	95236	24340 E MILTON RD	LINDEN	CA	95236
093-100-04	24350 E FLOOD RD	LINDEN	CA	952369429	24350 E FLOOD RD	LINDEN	CA	95236-9429
079-0310-037-0000	8180 FOLSOM BLVD	SACRAMENTO	CA	958265809	1 MARKET 400	SAN FRANCISCO	CA	94105-5103
075-160-008-1		PITTSBURG	CA	94565	PO BOX 5381	OAKLAND	CA	94605-0381
043-202-10	223 N CHEROKEE LN	LODI	CA	95240	135 N CENTER ST	TURLOCK	CA	95380-4505

Appendix 2A
Index to CPUC PEA Guidelines

Appendix A2: Index to CEQA Pre-Filing Guidelines PEA Checklist

Order	The format of the PEA is organized as follows:	PEA Section and Page Number	Applicant Notes, Comments
--	Cover	Cover	
--	Table of Contents, List of Tables, List of Figures, List of Appendices	i-xxv	
1	Executive Summary	1, page 1-1	
2	Introduction	2, page 2-1	
3	Proposed Project Description	3, page 3-1	
4	Description of Alternatives	4, page 4-1	
5	Environmental Analysis	5, page 5-1	
5.1	Aesthetics	5.1, page 5.1-1	
5.2	Agriculture and Forestry	5.2, page 5.2-1	
5.3	Air Quality	5.3, page 5.3-1	
5.4	Biological Resources	5.4, page 5.4-1	
5.5	Cultural Resources	5.5, page 5.5-1	
5.6	Energy	5.6, page 5.6-1	
5.7	Geology, Soils, and Paleontological Resources	5.7, page 5.7-1	
5.8	Greenhouse Gas Emissions	5.8, page 5.8-1	
5.9	Hazards, Hazardous Materials, and Public Safety	5.9, page 5.9-1	
5.10	Hydrology and Water Quality	5.10, page 5.10-1	
5.11	Land Use and Planning	5.11, page 5.11-1	
5.12	Mineral Resources	5.12, page 5.12-1	
5.13	Noise	5.13, page 5.13-1	
5.14	Population and Housing	5.14, page 5.14-1	
5.15	Public Services	5.15, page 5.15-1	
5.16	Recreation	5.16, page 5.16-1	
5.17	Transportation	5.17, page 5.17-1	
5.18	Tribal Cultural Resources	5.18, page 5.18-1	
5.19	Utilities and Service Systems	5.19, page 5.19-1	
5.20	Wildfire	5.20, page 5.20-1	
5.21	Mandatory Findings of Significance	5.21, page 5.21-1	

Order	The format of the PEA is organized as follows:	PEA Section and Page Number	Applicant Notes, Comments
6	Comparison of Alternatives	6, page 6-1	
7	Cumulative Impacts and Other CEQA Considerations	7, page 7-1	
8	List of Preparers	8, page 8-1	
9	References	9, page 9-1	
Order	**Title (As Provided in CPUC Pre-filing Guidelines PEA Checklist)**	**PEA Section and Page Number**	**Applicant Notes, Comments**
Appendix A	Detailed Maps and Design Drawings	Appendix A1	
Appendix B	Emissions Calculations, and Screening-level Health Risk Assessment	Appendix B1a Appendix B1b Appendix B2 Appendix E	
Appendix C	Biological Resources Technical Reports	Appendix C1 Appendix C2 Appendix C3 Appendix C4 Appendix C5 Appendix C6	
Appendix D	Cultural Resources Studies	Appendix D1 Appendix D2 – Confidential Appendix D3 – Confidential	Confidential – To be provided separately to the CPUC
Appendix E	Detailed Tribal Consultation Report	Appendix D4	
Appendix F	Environmental Data Resources Report, Phase I Environmental Site Assessment, or similar hazardous materials report	Appendix G1 Appendix G2	
Appendix G	Agency Consultation and Public Outreach Report and Records of Correspondence	Section 2.2 and online references	
Appendix H	Construction Fire Prevention Plan	To be provided pre-construction, post CPCN	APMs and BMPs provided in PEA address construction fire prevention
Appendix I	Noise Technical Studies	Section 5.13	

Order	The format of the PEA is organized as follows:	PEA Section and Page Number	Applicant Notes, Comments
Appendix J	Traffic Studies	n/a	Existing setting references support potential traffic impact discussion without project traffic studies
Appendix K	Geotechnical Investigations (may preliminary at time of PEA filing) Paleontological Resources Technical Report	Appendix F1 Appendix F2 Appendix F3 Appendix F4	
Appendix L	Hazardous Substance Control and Emergency Response Plan / Hazardous Waste and Spill Prevention Plan	To be provided pre-construction, post CPCN	APMs and BMPs provided in PEA address hazardous substance control and emergency response and hazardous waste and spill prevention
Appendix M	Erosion and Sedimentation Control Best Management Practice Plan / Draft Storm Water Pollution Prevention Plan	To be provided pre-construction, post CPCN	APMs and BMPs provided in PEA address erosion and sedimentation control best management practices and storm water pollution prevention plan contents
Appendix N	FAA Notice and Criteria Tool Results	Appendix G3	
Appendix O	Revegetation or Site Restoration Plan	n/a	Revegetation or site restoration not anticipated other than in future agreements between PG&E and agricultural landowners concerning site restoration and replanting of agricultural crops.
Appendix P	Health and Safety Plan	n/a	Project does not include natural gas or gas storage components
Appendix Q	Existing Easements	n/a	Refer to Section 3.4 for easement discussion. Where existing ROW will be used or new ROW or land acquisition will be required is unavailable in GIS until the project is approved by CPUC and final design and land survey occurs.

Appendix A2: Index to CEQA Pre-Filing Guidelines PEA Checklist

Order	The format of the PEA is organized as follows:	PEA Section and Page Number	Applicant Notes, Comments
Appendix R	Blasting Plan (may be preliminary at time of PEA filing)	n/a	Project does not include blasting
Appendix S	Traffic Control/Management Plan	To be provided pre-construction, post CPCN	APMs and BMPs provided in PEA address traffic control and management
Appendix T	Worker Environmental Awareness Program	To be provided pre-construction, post CPCN	APMs and BMPs provided in PEA address worker environmental awareness program content
Appendix U	Helicopter Use and Safety Plan	n/a	Refer to Section 3.5.1.5 for helicopter use and safety discussion
Appendix V	Electric and Magnetic Fields Management Plan	Appendix 3A EMF Discussion	PEA Appendix 3A is EMF Discussion Field Management Plan Provided as Exhibit G to CPCN Application

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
1 Executive Summary		
1.1: Proposed Project Summary. Provide a summary of the proposed project and its underlying purpose and basic objectives.	1.1 Page 1-1	
1.2: Land Ownership and Right-of-Way Requirements. Provide a summary of the existing and proposed land ownership and rights-of-way for the proposed project.	1.2 Page 1-2	
1.3: Areas of Controversy. Identify areas of anticipated controversy and public concern regarding the project.	1.3 Page 1-3	
1.4: Summary of Impacts a) Identify all impacts expected by the Applicant to be potentially significant. Identify and discuss Applicant Proposed Measures here and provide a reference to the full listing of Applicant Proposed Measures provided in the table described in Section 3.11 of this PEA Checklist. b) Identify any significant and unavoidable impacts that may occur.	1.4 Page 1-3	APMs and BMPs are considered part of the proposed project such as project design features, standard practices, and regulatory requirements. APMs and BMPs will be implemented to further avoid or minimize impacts on environmental resources, ensuring that any remaining impacts will be less than significant.
1.5: Summary of Alternatives. Summarize alternatives that were considered by the Applicant and the process and criteria that were used to select the proposed project.	1.5 Page 1-3	
1.6: Pre-filing Consultation and Public Outreach Summary. Briefly summarize Pre-filing consultation and public outreach efforts that occurred and identify any significant outcomes that were incorporated into the proposed project.	1.5 Page 1-3	
1.7: Conclusions. Provide a summary of the major PEA conclusions.	1.5 Page 1-3	
1.8: Remaining Issues. Describe any major issues that must still be resolved.	1.5 Page 1-3	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
2 Introduction 2.1 Project Background	PEA Section and Page Number	
2.1.1: Purpose and Need a) Explain why the proposed project is needed. b) Describe localities the proposed project would serve and how the project would fit into the local and regional utility system. c) If the proposed project was identified by the California Independent System Operator (CAISO), thoroughly describe the CAISO's consideration of the proposed project and provide the following information: i. Include references to all CAISO Transmission Planning Processes that considered the proposed project. ii. Explain if the proposed project is considered an economic, reliability, or policy-driven project or a combination thereof. iii. Identify whether and how the Participating Transmission Owner recommended the project in response to a CAISO identified need, if applicable. iv. Identify if the CAISO approved the original scope of the project or an alternative and the rationale for their approval either for the original scope or an alternative. v. Identify how and whether the proposed project would exceed, combine, or modify in any way the CAISO identified project need. vi. If the Applicant was selected as part of a competitive bid process, identify the factors that contributed to the selection and CAISO's requirements for in-service date. d) If the project was not considered by the CAISO, explain why.	2.1.4 Page 2-5	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
(Natural Gas Storage Only) e) Provide storage capacity or storage capacity increase in billion cubic feet. If the project does not increase capacity, make this statement. f) Describe how existing storage facilities will work in conjunction with the proposed project. Describe the purchasing process (injection, etc.) and transportation arrangements this facility will have with its customers.	n/a	Project does not include natural gas storage
2.1.2: Project Objectives a) Identify and describe the basic project objectives. The objectives will include reasons for constructing the project based on its purpose and need (i.e., address a specific reliability issue). The description of the project objectives will be sufficiently detailed to permit CPUC to independently evaluate the project need and benefits to accurately consider them in light of the potential environmental impacts. The basic project objectives will be used to guide the alternatives screening process, when applicable. b) Explain how implementing the project will achieve the basic project objectives and underlying purpose and need. c) Discuss the reasons why attainment of each basic objective is necessary or desirable.	2.1.5 Page 2-10 Table 2.1-1 Table 2.1-2 Table 2.1-3 Figure 2.1-1 Figure 2.1-2 Figure 2.1-3	
2.1.3: Project Applicant(s). Identify the project Applicant(s) and ownership of each component of the proposed project. Describe each Applicant's utility services and their local and regional service territories.	2.1.6 Page 2-11	
2.2 Pre-filing Consultation and Public Outreach	PEA Section and Page Number	
2.2.1: Pre-filing Consultation and Public Outreach a) Describe all Pre-filing consultation and public outreach that occurred, such as, but not limited to:	2.2.1 Page 2-12	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
i. CAISO ii. Public agencies with jurisdiction over project areas or resources that may occur in the project area iii. Native American tribes affiliated with the project area iv. Private landowners and homeowner associations v. Developers for large housing or commercial projects near the project area vi. Other utility owners and operators vii. Federal, state, and local fire management agencies b) Provide meeting dates, attendees, and discussion summaries, including any preliminary concerns and how they were addressed and any project alternatives that were suggested. c) Clearly identify any significant outcomes of consultation that were incorporated into the proposed project. d) Clearly identify any developments that could coincide or conflict with project activities (i.e., developments within or adjacent to a proposed ROW).		
2.2.2: Records of Consultation and Public Outreach. Provide contact information, notification materials, meeting dates and materials, meeting notes, and records of communication organized by entity as an Appendix to the PEA (Appendix G).	2.2.2 Page 2-15	
2.3 Environmental Review Process	PEA Section and Page Number	
2.3.1: Environmental Review Process. Provide a summary of the anticipated environmental review process and schedule.	2.3.1 Page 2-16	
2.3.2: CEQA Review a) Explain why CPUC is the appropriate CEQA Lead agency. b) Identify other state agencies and any federal agencies that may have	2.3.2 Page 2-16	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
discretionary permitting authority over any aspect of the proposed project. c) Identify all potential involvement by federal, state, and local agencies not expected to have discretionary permitting authority (i.e., ministerial actions). d) Summarize the results of any preliminary outreach with these agencies as well as future plans for outreach.		
2.3.3: NEPA Review (if applicable). If review according to the National Environmental Policy Act (NEPA) is expected, explain the portions of the project that will require the NEPA review process. Discuss which agency is anticipated to be the NEPA Lead agency if discretionary approval by more than one federal agency is required.	2.3.3 Page 2-16	NEPA Review not expected to be applicable to the proposed project
2.3.4: Pre-filing CEQA and NEPA Coordination. Describe the results of Pre-filing coordination with CEQA and NEPA review agencies (refer to CPUC's Pre-Filing Consultation Guidelines). Identify major outcomes of the Pre-filing coordination process and how the information was incorporated into the PEA, including suggestions on the type of environmental documents and joint or separate processes based on discussions with agency staff.	2.3.4 Page 2-16	
2.4 Document Organization	PEA Section and Page Number	
2.4: PEA Organization. Summarize the contents of the PEA and provide an annotated list of its sections.	2.4 Page 2-17	
3 Proposed Project Description 3.1 Project Overview	PEA Section and Page Number	
3.1: Project Overview a) Provide a concise summary of the proposed project and components in a few paragraphs. b) Described the geographical location of the proposed project (i.e., county, city, etc.).	3.1 Page 3-1 Figure 3.1-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Provide an overview map of the proposed project location.		
3.2 Existing and Proposed System	PEA Section and Page Number	
3.2.1: Existing System a) Identify and describe the existing utility system that would be modified by the proposed project, including connected facilities to provide context. Include detailed information about substations, transmission lines, distribution lines, compressor stations, metering stations, valve stations, nearby renewable generation and energy storage facilities, telecommunications facilities, control systems, SCADA systems, etc. b) Provide information on users and the area served by the existing system features. c) Explain how the proposed project would fit into the existing local and regional systems. d) Provide a schematic diagram of the existing system features. e) Provide detailed maps and associated GIS data for existing facilities that would be modified by the proposed project.	3.2.1 Page 3-2	

3.2.2: Proposed Project System a) Describe the whole of the proposed project by component, including all new facilities and any modifications, upgrades, or expansions to existing facilities and any interrelated activities that are part of the whole of the action. b) Clearly identify system features that would be added, modified, removed, disconnected and left in place, etc. c) Identify the expected capacities of the proposed facilities, highlighting any changes from the existing system. If the project would not change existing capacities, make this statement. For electrical projects, provide the anticipated capacity increase in amps or megawatts or in the typical units for the types of facilities proposed. For gas projects, provide the total volume of gas to be delivered by the proposed facilities, anticipated system capacity increase (typically in million cubic feet per day), expected customers, delivery points and corresponding volumes, and the anticipated maximum allowable operating pressure(s). d) Describe the initial buildout and eventual full buildout of the proposed project facilities. For example, if an electrical substation or gas compressor station would be installed to accommodate additional demand in the future, then include the designs for both the initial construction based on current demand and the design for all infrastructure that could ultimately be installed within the planned footprint of an electric substation or compressor station. e) Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability. f) Provide information on users and the area served by the proposed system features, highlighting any differences from the existing system. g) Provide a schematic diagram of the proposed system features. h) Provide detailed maps and associated GIS data for proposed facilities that would be installed, modified, or relocated by the proposed project.	3.2.2 Page 3-5	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.2.3: System Reliability. Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability. Clearly explain and show how the proposed project relates to and supports the existing utility systems.	3.2.4 Page 3-7	
3.2.4: Planning Area. Describe the system planning area served or to be served by the project. Clearly define the Applicant's term for the planning area (e.g., Electrical Needs Area or Distribution Planning Area).	3.2.4 Page 3-7	
3.3 Project Components	PEA Section and Page Number	
Required for all Project Types		
3.3.1: Preliminary Design and Engineering a) Provide preliminary design and engineering information for all above-ground and below-ground facilities for the proposed project. The approximate locations, maximum dimensions of facilities, and limits of areas that would be needed to construct and operate the facilities should be clearly defined. b) Provide preliminary design drawings for project features and explain the level of completeness (i.e., percentage). c) Provide detailed project maps (approximately 1:3,000 scale) and associated GIS data of all facility locations and boundaries with attributes and spatial geometry that corresponds to information in the Project Description.	3.3.1 Page 3-8 Appendix A1	
3.3.2: Segments, Components, and Phases a) Define all project segments, components, and phases for the proposed project. b) Provide the length/area of each segment or component, and the timing of each development phase. c) Provide an overview map showing each segment and provide associated GIS data (may be combined with other mapping efforts).	3.3.2 Page 3-8 Appendix A1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.3.3: Existing Facilities a) Identify the types of existing facilities that would be removed or modified by the proposed project (i.e., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems, etc.). b) Describe the existing facilities by project segment and/or component, and provide information regarding existing dimensions, areas/footprints, quantities, locations, spans, etc. c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths. d) Explain what would happen to the existing facilities. Would they be replaced, completely removed, modified, or abandoned? Explain why. e) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of existing facilities that would be installed or modified by the proposed project. f) Provide diagrams with dimensions representing existing facilities to provide context on how the proposed facilities would be different. g) Briefly describe the surface colors, textures, light reflectivity, and any lighting of existing facilities.	3.3.3 Page 3-10 Table 3.3-1 Table 3.3-2 Table 3.3-3 Table 3.3-4 Table 3.3-5 Table 3.3-6 Table 3.3-7 Table 3.3-8 Table 3.3-9 Appendix A1 Figure 3.3-1a Figure 3.3-1b Figure 3.3-1c Figure 3.3-1d Figure 3.3-2a Figure 3.3-2b Figure 3.3-3a Figure 3.3-3b Figure 3.4-4 Figure 3.3-5	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.3.4: Proposed Facilities a) Identify the types of proposed facilities to be installed or modified by the proposed project (e.g., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems). b) Describe the proposed facilities by project segment and/or component, and provide information regarding maximum dimensions, areas/footprints, quantities, locations, spans, etc. c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths. d) Identify where facilities would be different (e.g., where unique or larger poles would be located, large guy supports or snub poles). e) Provide details about civil engineering requirements (i.e., permanent roads, foundations, pads, drainage systems, detention basins, spill containment, etc.). f) Distinguish between permanent facilities and any temporary facilities (i.e., poles, shoo-fly lines, mobile substations, mobile compressors, transformers, capacitors, switch racks, compressors, valves, driveways, and lighting). g) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of proposed facilities that would be installed or modified by the proposed project. h) Provide diagrams with dimensions representing existing facilities. i) Briefly describe the surface colors, textures, light reflectivity, and any lighting of proposed facilities.	3.3.4 Page 3-32 Table 3.3-10 Table 3.3-11 Table 3.3-12 Table 3.3-13 Table 3.3-14 Appendix A1 Figure 3.3-6a Figure 3.3-6b Figure 3.3-6c Figure 3.3-7a Figure 3.3-7b Figure 3.3-7c Figure 3.3-8	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.3.5: Other Potentially Required Facilities a) Identify and describe in detail any other actions or facilities that may be required to complete the project. For example, consider the following questions: i. Could the project require the relocation (temporary or permanent), modification, or replacement of unconnected utilities or other types of infrastructure by the Applicant or any other entity? ii. Could the project require aviation lighting and/or marking? iii. Could the project require additional civil engineering requirements to address site conditions or slope stabilization issues, such as pads and retaining walls, etc.? b) Provide the location of each facility and a description of the facility.	3.3.5 Page 3-34	
3.3.6: Future Expansions and Equipment Lifespans a) Provide detailed information about the current and reasonably foreseeable plans for expansion and future phases of development. b) Provide the expected usable life of all facilities. c) Describe all reasonably foreseeable consequences of the proposed project (e.g., future ability to upgrade gas compressor station to match added pipeline capacity).	3.3.6 Page 3-34	
Required for Certain Project Types		
3.3.7: Below-ground Conductor/Cable Installations (as Applicable) a) Describe the type of line to be installed (e.g., single circuit cross-linked polyethylene-insulated solid-dielectric, copper-conductor cables). b) Describe the type of casing the cable would be installed in (e.g., concrete-encased duct bank system) and provide the dimensions of the casing.	3.3.7 Page 3-34	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Describe the types of infrastructure would likely be installed within the duct bank (e.g., transmission, fiber optics, etc.).		
3.3.8: Electric Substations and Switching Stations (as Applicable) a) Provide the number of transformer banks that will be added at initial and full buildout of the substation. Identify the transformer voltage and number of each transformer type. b) Identify any gas insulated switchgear that will be installed within the substation. c) Describe any operation and maintenance facilities, telecommunications equipment, and SCADA equipment that would be installed within the substation.	3.3.8 Page 3-34 Table 3.3-15	
3.3.9: Gas Pipelines (as Applicable). For each segment: a) Identify pipe diameter, number and length of exposed sections, classes and types of pipe to be installed, pressure of pipe, and cathodic protection for each linear segment. b) Describe new and existing inspection facilities (e.g., pig launcher sites). c) Describe system cross ties and laterals/taps. d) Identify the spacing between each valve station. e) Describe the compressor station, if needed, for any new or existing pipeline. f) Describe all pipelines and interconnections with existing and proposed facilities: i. Number of interconnections and locations and sizes; ii. All below-ground and above-ground installations; and iii. All remote facility locations for metering, telemetry, control.	n/a	Gas pipelines are not part of the proposed project
3.3.10: Gas Storage Facilities – Background and Resource Information (as Applicable) a) Provide detailed background information on the natural gas formation contributing to the existing or proposed natural gas facility, including the following:	n/a	Gas storage facilities are not part of the proposed project

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
i. Description of overlying stratigraphy, especially caps ii. Description of production, injection, and intervening strata iii. Types of rock iv. Description of types of rocks in formation, including permeability or fractures v. Thickness of strata b) Provide a graphic and/or table showing formation thicknesses. c) Identify and describe any potential gas migration pathways, such as faults, permeable contacts, abandoned wells, underground water or other pipelines. d) Provide a summary and detailed cross-section diagrams of the geologic formations and structures of the oil/gas field or area. e) Provide the first well drilling and production history, abandonment procedures, inspections, etc. f) Describe production zones, including depth, types of formations, and characteristics of field/area. g) Describe the existing and proposed storage capacity and limiting factors, such as injection or withdrawal capacities. h) Describe existing simulation studies that were used to predict the reservoir pressure response under gas injection and withdrawal operations, and simulation studies for how the system would change as proposed. Provide the studies as a PEA Appendix. i) Provide the history of the oil/gas field or area.		
3.3.11: Gas Storage Facilities – Well-Head Sites (as Applicable). Describe the location, depth, size and completion information for all existing, abandoned, proposed production and injection, monitoring, and test wells.	n/a	Gas storage facilities are not part of the proposed project
3.3.12: Gas Storage Facilities – Production and Injection (as Applicable)	n/a	Gas storage facilities are not part of the proposed project

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
a) Provide the proposed storage capacity of production and injection wells. b) Provide production and injection pressures, depths, and rates. c) Provide production and injection cycles by day, week, and year. d) Describe existing and proposed withdrawal/production wells (i.e., size, depth, formations, etc.). e) Describe existing and proposed cushion gas requirements. f) Describe any cushion gas injection—formation the well is completed in (cushion gas formation), and injection information.		
3.3.13: Gas Storage Facilities – Electrical Energy (as Applicable). Describe all existing and proposed electric lines, telecommunications facilities, and other utilities/facilities (e.g., administrative offices, service buildings, and non-hazardous storage), and chemical storage associated with the proposed project.	n/a	Gas storage facilities are not part of the proposed project
3.3.14: Telecommunication Lines (as Applicable) a) Identify the type of cable that is proposed and length in linear miles by segment. b) Identify any antenna and node facilities that are part of the project. c) For below-ground telecommunication lines, provide the depth of cable and type of conduit. d) For above-ground telecommunication lines, provide: i. Types of poles that will be installed (if new poles are required) ii. Where existing poles will be used iii. Any additional infrastructure (e.g., guy wires) or pole changes required to support the additional cable on existing poles	3.3.9 Page 3-35 Table 3.3-16	
3.4 Land Ownership, Rights-of-Way, and Easements	PEA Section and Page Number	
3.4.1: Land Ownership. Describe existing land ownership where each project component would	3.4.1 Page 3-36	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
be located. State whether the proposed project would be located on property(ies) owned by the Applicant or if additional property would be required.		
3.4.2: Existing Rights-of-Way or Easements a) Identify and describe existing rights-of-way (ROWs) or easements where project components would be located. Provide the approximately lengths and widths in each project area. b) Clearly state if project facilities would be replaced, modified, or relocated within existing ROWs or easements.	3.4.2 Page 3-37 Table 3.4-1	
3.4.3: New or Modified Rights-of-Way or Easements a) Describe new permanent or modified ROWs or easements that would be required. Provide the approximately lengths and widths in each project area. b) Describe how any new permanent or modified ROWs or easements would be acquired. c) Provide site plans identifying all properties/parcels and partial properties/parcels that may require acquisition and the anticipated ROWs or easements. Provide associated GIS data. d) Describe any development restrictions within new ROWs or easements, e.g., building clearances and height restrictions, etc. e) Describe any relocation or demolition of commercial or residential property/structures that may be necessary.	3.4.3 Page 3-38 Table 3.4-2	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.4.4: Temporary Rights-of-Way or Easements f) Describe temporary ROWs or easements that would be required to access project areas, including ROWs or easements for temporary construction areas (i.e., staging areas or landing zones). g) Explain where temporary construction areas would be located with existing ROWs or easements for the project or otherwise available to the Applicant without a temporary ROW or easement. h) Describe how any temporary ROWs or easements would be acquired.	3.4.4 Page 3-40	
3.5 Construction	PEA Section and Page Number	
3.5.1 Construction Access (All Projects)		
3.5.1.1: Existing Access Roads a) Provide the lengths, widths, ownership details (both public and private roads), and surface characteristics (i.e., paved, graveled, bare soil) of existing access roads that would be used during construction. Provide the area of existing roads that would be used. b) Describe any road modifications or stabilization that would be required prior to construction, including on the adjacent road shoulders or slopes. Identify any roads that would be expanded and provide the proposed width increases. c) Describe any procedures to address incidental road damage cause by project activities following construction. d) Provide detailed maps and associated GIS data for all existing access roads.	3.5.1.1 Page 3-40 Table 3.5-1 Appendix A1 Figure 3.5-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.1.2: New Access Roads a) Identify any new access roads that would be developed for project construction purposes, such as where any blading, grading, or gravel placement could occur to provide equipment access outside of a designated workspace. b) Provide lengths, widths, and development methods for new access roads. c) Identify any temporary or permanent gates that would be installed. d) Clearly identify any roads that would be temporary and fully restored following construction. Otherwise it will be assumed the new access road is a permanent feature. e) Provide detailed maps and associated GIS data for all new access roads.	3.5.1.2 Page 3-41 Table 3.5-1 Appendix A1 Figure 3.5-1	No roads outside of fenced station areas are new permanent roads.
3.5.1.3: Overland Access Routes a) Identify any overland access routes that would be used during construction, such as where vehicles and equipment would travel over existing vegetation and where blading, grading, or gravel placement would occur. b) Provide lengths and widths for new access roads. c) Provide detailed maps and associated GIS data for all overland access routes.	3.5.1.3 Page 3-42 Table 3.5-1 Appendix A1 Figure 3.5-1	
3.5.1.4: Watercourse Crossings a) Identify all temporary watercourse crossings that would be required during construction. Provide specific methods and procedures for temporary watercourse crossings. b) Describe any bridges or culverts that replacement or installation of would be required for construction access. c) Provide details about the location, design and construction methods.	3.5.1.4 Page 3-42 Appendix A1 Figure 3.5-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.1.5: Helicopter Access. If helicopters would be used during construction: a) Describe the types and quantities of helicopters that would be used during construction (e.g., light, medium, heavy, or sky crane), and a description of the activities that each helicopter would be used for. b) Identify areas for helicopter takeoff and landing. c) Describe helicopter refueling procedures and locations. d) Describe flight paths, payloads, and expected hours and durations of helicopter operation. e) Describe any safety procedures or requirements unique to helicopter operations, such as but not limited to obtaining a Congested Area Plan from the Federal Aviation Administration (FAA).	3.5.1.5 Page 3-42 Appendix A1 Figure 3.5-1	
3.5.2 Staging Areas (All Projects)		
3.5.2.1: Staging Area Locations a) Identify the locations of all staging area(s). Provide a map and GIS data for each. b) Provide the size (in acres) for each staging area and the total staging area requirements for the project.	3.5.2.1 Page 3-43 Table 3.5-2 Appendix A1 Figure 3.5-1	
3.5.2.2: Staging Area Preparation a) Describe any site preparation required, if known, or generally describe what might be required (i.e., vegetation removal, new access road, installation of rock base, etc.). b) Describe what the staging area would be used for (i.e., material and equipment storage, field office, reporting location for workers, parking area for vehicles and equipment, etc.). c) Describe how the staging area would be secured. Would a fence be installed? If so, describe the type and extent of the fencing. d) Describe how power to the site would be provided if required (i.e., tap into existing distribution, use of diesel generators, etc.).	3.5.2.2 Page 3-44	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
e) Describe any temporary lightning facilities for the site. f) Describe any grading activities and/or slope stabilization issues.		
3.5.3 Construction Work Areas (All Projects)		
3.5.3.1: Construction Work Areas a) Describe known work areas that may be required for specific construction activities (e.g., pole assembly, hillside construction) b) Describe the types of activities that would be performed at each work area. Work areas may include but are not necessarily limited to: i. Helicopter landing zones and touchdown areas ii. Vehicle and equipment parking, passing, or turnaround areas iii. Railroad, bridge, or watercourse crossings iv. Temporary work pads for facility installation, modification, or removal v. Excavations and associated equipment work areas vi. Temporary guard structures vii. Pull-and-tension/stringing sites viii. Jack and bore pits, drilling areas and pull-back areas for horizontal directional drills ix. Retaining walls	3.5.3.1 Page 3-45	
3.5.3.2 Work Area Disturbance a) Provide the dimensions of each work area including the maximum area that would be disturbed during construction (e.g., 100 feet by 200 feet). b) Provide a table with temporary and permanent disturbance at each work area (in square feet or acres), and the total area of temporary and permanent disturbance for the entire project (in acres).	3.5.3.2 Page 3-46 Table 3.5-3	
3.5.3.3: Temporary Power. Identify how power would be provided at work area (i.e., tap into existing distribution, use of diesel generators,	3.5.3.3 Page 3-47	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
etc.). Provide the disturbance area for any temporary power lines.		
3.5.4 Site Preparation (All Projects)		
3.5.4.1: Surveying and Staking. Describe initial surveying and staking procedures for site preparation and access.	3.5.4.1 Page 3-48	
3.5.4.2: Utilities a) Describe the process for identifying any underground utilities prior to construction (i.e., underground service alerts, etc.). b) Describe the process for relocating any existing overhead or underground utilities that aren't directly connected to the project system. c) Describe the process for installing any temporary power or other utility lines for construction.	3.5.4.2 Page 3-48	
3.5.4.3: Vegetation Clearing a) Describe what types of vegetation clearing may be required (e.g., tree removal, brush removal, flammable fuels removal) and why (e.g., to provide access, etc.). b) Provide calculations of temporary and permanent disturbance of each vegetation community and include all areas of vegetation removal in the GIS database. Distinguish between disturbance that would occur in previously developed areas (i.e., paved, graveled, or otherwise urbanized), and naturally vegetated areas. c) Describe how each type of vegetation removal would be accomplished. d) Describe the types of equipment that would be used for vegetation removal.	3.5.4.3 Page 3-49 Table 3.5-4	
3.5.4.4: Tree Trimming Removal a) For electrical projects, distinguish between tree trimming as required under CPUC General Order 95-D and tree removal. b) Identify the types, locations, approximate numbers, and sizes of trees that may need to be removed or trimmed substantially.	3.5.4.4 Page 3-50 Table 3.5-5 Appendix A1 Figure 3.5-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Identify potentially protected trees that may be removed or substantially trimmed, such as but not limited to riparian trees, oaks trees, Joshua trees, or palm trees. d) Describe the types of equipment that would typically be used for tree removal.		
3.5.4.5: Work Area Stabilization. Describe the processes to stabilize temporary work areas and access roads including the materials that would be used (e.g., gravel).	3.5.4.5 Page 3-51	
3.5.4.6: Grading a) Describe any earth moving or substantial grading activities (i.e., grading below a 6-inch depth) that would be required and identify locations where it would occur. b) Provide estimated volumes of grading (in cubic yards) including total cut, total fill, cut that would be reused, cut that would be hauled away, and clean fill that would be hauled to the site.	3.5.4.6 Page 3-51	
3.5.5 Transmission Line Construction (Above Ground)		
3.5.5.1: Poles/Towers a) Describe the process and equipment for removing poles, towers, and associated foundations for the proposed project (where applicable). Describe how they would be disconnected, demolished, and removed from the site. Describe backfilling procedures and where the material would be obtained. b) Describe the process and equipment for installing or otherwise modifying poles and towers for the proposed project. Describe how they would be put into place and connected to the system. Identify any special construction methods (e.g., helicopter installation) at specific locations or specific types of poles/towers. c) Describe how foundations, if any, would be installed. Provide a description of the construction method(s), approximate average depth and diameter of excavation, approximate volume of soil to be excavated,	3.5.5.1 Page 3-52	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
approximate volume of concrete or other backfill required, etc. for foundations. Describe what would be done with soil removed from a hole/foundation site. d) Describe how the poles/towers and associated hardware would be delivered to the site and assembled. e) Describe any pole topping procedures that would occur, identify specific locations and reasons, and describe how each facility would be modified. Describe any special methods that would be required to top poles that may be difficult to access.		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.5.2: Aboveground and Underground Conductor/Cable a) Provide a process-based description of how new conductor/cable would be installed and how old conductor/cable would be removed, if applicable. b) Identify where conductor/cable stringing/installation activities would occur. c) Provide a diagram of the general sequencing and equipment that would be used. d) Describe the conductor/cable splicing process. e) Provide the general or average distance between pull-and-tension sites. Describe the approximate dimensions and where pull-and-tension sites would generally be required (as indicated by the designated work areas), such as the approximate distance to pole/tower height ratio, at set distances, or at significant direction changes. Describe the equipment that would be required at these sites. f) For underground conductor/cable installations, describe all specialized construction methods that would be used for installing underground conductor or cable. If vaults are required, provide their dimensions and location/spacing along the alignment. Provide a detailed description for how the vaults would be delivered to the site and installed. g) Describe any safety precautions or areas where special methodology would be required (e.g., crossing roadways, stream crossing).	3.5.5.2 Page 3-56 Figure 3.5-2	
3.5.5.3: Telecommunications. Identify the procedures for installation of proposed telecommunication cables and associated infrastructure.	3.5.5.3 Page 3-57	
3.5.5.4: Guard Structures. Identify the types of guard structures that would be used at crossings of utility lines, roads, railroads, highways, etc. Describe the different types of guard structures or methods that may be used (i.e., buried poles and netting, poles secured to a weighted object, bucket trucks, etc.). Describe any pole installation	3.5.5.4 Page 3-58 Figure 3.5-3	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
and removal procedures associated with guard structures. Describe guard structure installation and removal process and duration that guard structures would remain in place.		
3.5.5.5: Blasting a) Describe any blasting that may be required to construct the project. b) If blasting may be required, provide a Blasting Plan that identifies the blasting locations; types and amounts of blasting agent to be used at each location; estimated impact radii; and, noise estimates. The Blasting Plan should be provided as an Appendix to the PEA. c) Provide a map identifying the locations where blasting may be required with estimated impact radii. Provide associated GIS data.	n/a	Blasting is not an expected construction method
3.5.6 Transmission Line Construction (Below Ground)		
3.5.6.1: Trenching a) Describe the approximate dimensions of the trench (e.g., depth, width). b) Provide the total approximate volume of material to be removed from the trench, the amount to be used as backfill, and any amount to subsequently be removed/disposed of offsite in cubic yards. c) Describe the methods used for making the trench (e.g., saw cutter to cut the pavement, backhoe to remove, etc.). d) Provide off-site disposal location, if known, or describe possible option(s). e) Describe if dewatering would be anticipated and if so, how the trench would be dewatered, the anticipated flows of the water, whether there would be treatment, and how the water would be disposed of. f) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants that could be exposed from trenching operations.	3.5.6.1 Page 3-58	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
g) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal. h) Describe the state of the ground surface after backfilling the trench. i) Describe standard Best Management Practices to be implemented.		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.6.2: Trenchless Techniques (Microtunnel, Jack and Bore, Horizontal Directional Drilling) a) Identify any locations/features for which the Applicant expects to use a trenchless (i.e., microtunneling, jack and bore, horizontal directional drilling) crossing method and which method is planned for each crossing. b) Describe the methodology of the trenchless technique. c) Provide the approximate location and dimensions of the sending and receiving pits. d) Describe the methodology of excavating and shoring the pits. e) Provide the total volume of material to be removed from the pits, the amount to be used as backfill, and the amount subsequently to be removed/disposed of offsite in cubic yards. f) Describe process for safe handling of drilling mud and bore lubricants. g) Describe the process for detecting and avoiding "fracturing-out" during horizontal directional drilling operations. h) Describe the process for avoiding contact between drilling mud/lubricants and stream beds. i) If engineered fill would be used as backfill, indicate the type of engineered backfill and the amount that would be typically used (e.g., the top 2 feet would be filled with thermal-select backfill). j) Describe if dewatering is anticipated and, if so, how the pits would be dewatered, the anticipated flows of the water, whether there would there be treatment, and how the water would be disposed of. k) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants. Describe the process of disposing of any pre-existing hazardous waste that is encountered during excavation. l) Describe any standard BMPs that would be implemented for trenchless construction.	3.5.6.2 Page 3-59	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.7 Substation, Switching Stations, Gas Compressor Stations		
3.5.7.1: Installation or Facility Modification. Describe the process and equipment for removing, installing, or modifying any substations, switching stations, or compressor stations including: a) Transformers/ electric components b) Gas components c) Control and operation buildings d) Driveways e) Fences f) Gates g) Communication systems (SCADA) h) Grounding systems	3.5.7.1 Page 3-61	
3.5.7.2: Civil Works. Describe the process and equipment required to construct any slope stabilization, drainage, retention basins, and spill containment required for the facility.	3.5.7.2 Page 3-64	
3.5.8 Gas Pipelines		
3.5.8.1: Gas Pipeline Construction. Describe the process for proposed pipeline construction including site development, trenching and trenchless techniques, pipe installation, and backfilling.	n/a	Gas pipelines are not part of the proposed project
3.5.8.2: Water Crossings. Describe water feature crossings that will occur during trenching, the method of trenching through stream crossings, and the process for avoiding impacts to the water features required for pipeline construction. Identify all locations where the pipeline will cross water features. Cite to any associated geotechnical or hydrological investigations completed and provide a full copy of each report as an Appendix to the PEA.	n/a	Gas pipelines are not part of the proposed project
3.5.8.3: Gas Pipeline Other Requirements a) Describe hydrostatic testing process including pressures, timing, source of flushing water, discharge of water. b) Describe energy dissipation basin, and the size and length of segments to be tested.	n/a	Gas pipelines are not part of the proposed project

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Describe pig launching locations and any inline inspection techniques used during or immediately post construction.		
3.5.9 Gas Storage Facilities		
3.5.9.1: Gas Storage Construction a) Describe the process for constructing the gas storage facility including constructing well pads and drilling wells. b) Describe the specific construction equipment that would be used, such as the type of drill rig (i.e., size, diesel, electric, etc.), depth of drilling, well-drilling schedule and equipment.	n/a	Gas storage facilities are not part of the proposed project
3.5.9.2: Drilling Muds and Fluids. Describe the use of any drilling muds, fluids, and other drilling materials. Provided estimated types and quantities.	n/a	Gas storage facilities are not part of the proposed project
3.5.10 Public Safety and Traffic Control (All Projects)		
3.5.10.1: Public Safety a) Describe specific public safety considerations during construction and best management practices to appropriately manage public safety. Clearly state when and where they each safety measure would be applied. b) Identify procedures for managing work sites in urban areas, covering open excavations securely, installing barriers, installing guard structures, etc. c) Identify specific project areas where public access may be restricted for safety purposes and provide the approximate durations and timing of restricted access at each location.	3.5.8.1 Page 3-66	
3.5.10.2: Traffic Control a) Describe traffic control procedures that would be implemented during construction. b) Identify the locations, process, and timing for closing any sidewalks, lanes, roads, trails, paths, or driveways to manage public access. c) Identify temporary detour routes and locations. d) Provide a preliminary Traffic Control Plan(s) for the project.	3.5.8.2 Page 3-66	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.10.3: Security. Describe any security measures, such as fencing, lighting, alarms, etc. that may be required. State if security personnel will be stationed at project areas and anticipated duration of security.	3.5.8.3 Page 3-68	
3.5.10.4: Livestock. Describe any livestock fencing or guards that may be necessary to prevent livestock from entering project areas. State if the fencing would be electrified and if so, how it would be powered.	3.5.8.4 Page 3-68	
3.5.11 Dust, Erosion, and Runoff Controls (All Projects)		
3.5.11.1: Dust. Describe specific best management practices that would be implemented to manage fugitive dust.	3.5.9.1 Page 3-68	
3.5.11.2: Erosion. Describe specific best management practices that would be implemented to manage erosion.	3.5.9.2 Page 3-68	
3.5.11.3: Runoff. Describe specific best management practices that would be implemented to manage stormwater runoff and sediment.	3.5.9.3 Page 3-69	
3.5.12 Water Use and Dewatering (All Projects)		
3.5.12.1: Water Use. Describe the estimated volumes of water that would be used by construction activity (e.g., dust control, compaction, etc.). State if recycled or reclaimed water would be used and provide estimated volumes. Identify the anticipated sources where the water would be acquired or purchased. Identify if the source of water is groundwater and the quantity of groundwater that could be used.	3.5.10.1 Page 3-69	
3.5.12.2: Dewatering a) Describe dewatering procedures during construction, including pumping, storing, testing, permitted discharging, and disposal requirements that would be followed. b) Describe the types of equipment and workspace considerations to be used to dewater, store, transport, or discharge extracted water.	3.5.10.2 Page 3-69	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.13 Hazardous Materials and Management (All Projects)		
3.5.13.1: Hazardous Materials a) Describe the types, uses, and volumes of all hazardous materials that would be used during construction. b) State if herbicides or pesticides may be used during construction. c) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.	3.5.11.1 Page 3-69 Table 3.5-6	
3.5.13.2: Hazardous Materials Management a) Identify specific best management practices that would be followed for transporting, storing, and handling hazardous materials. b) Identify specific best management practices that would be followed in the event of an incidental leak or spill of hazardous materials. c) Provide a Hazardous Substance Control and Emergency Response Plan / Hazardous Waste and Spill Prevention Plan as an Appendix to the PEA, if appropriate.	3.5.11.2 Page 3-70	The Hazardous Substance Control and Emergency Response Plan / Hazardous Waste and Spill Prevention Plan is not prepared until much later in the project development process and will not be attached to the PEA. The plan will include and expand on expand on regulatory requirements and typical best practices, such as the hazardous materials APMs and BMPs included in the PEA.
3.5.14 Waste Generation and Management (All Projects)		
3.5.14.1: Solid Waste a) Describe solid waste streams from existing and proposed facilities during construction. b) Identify procedures to be implemented to manage solid waste, including collection, containment, storage, treatment, and disposal. c) Provide estimated total volumes of solid waste by construction activity or project component. d) Describe the recycling potential of solid waste materials and provide estimated volumes of recyclable materials by construction activity or project component. e) Identify the locations of appropriate disposal and recycling facilities where solid wastes would be transported.	3.5.12.1 Page 3-71	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.14.2: Liquid Waste a) Describe liquid waste streams during construction (i.e., sanitary waste, drilling fluids, contaminated water, etc.) b) Describe procedures to be implemented to manage liquid waste, including collection, containment, storage, treatment, and disposal. c) Provide estimated volumes of liquid waste generated by construction activity or project component. d) Identify the locations of appropriate disposal facilities where liquid wastes would be transported.	3.5.12.2 Page 3-72	
3.5.14.3: Hazardous Waste a) Describe potentially hazardous waste streams during construction and procedures to be implemented to manage hazardous wastes, including collection, containment, storage, treatment, and disposal. b) If large volumes of hazardous waste are anticipated, such as from a pre-existing contaminant in the soil that must be collected and disposed of, provide estimated volumes of hazardous waste that would be generated by construction activity or project component. c) Identify the locations of appropriate disposal facilities where hazardous wastes would be transported.	3.5.12.3 Page 3-72	
3.5.15 Fire Prevention and Response (All Projects)		
3.5.15.1: Fire Prevention and Response Procedures. Describe fire prevention and response procedures that would be implemented during construction. Provide a Construction Fire Prevention Plan or specific procedures as an Appendix to the PEA.	3.5.13.1 Page 3-72	The Construction Fire Prevention Plan is not prepared until much later in the project development process and will not be attached to the PEA. The plan will include and expand on expand on regulatory requirements and typical best practices, such as the construction fire prevention APMs and BMPs included in the PEA.

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.5.15.2: Fire Breaks. Identify any fire breaks (i.e., vegetation clearance) requirements around specific project activities (i.e., hot work). Ensure that such clearance buffers are included in the limits of the defined work areas, and the vegetation removal in that area is attributed to Fire Prevention and Response (refer to 3.5.4.3: Vegetation Clearing).	3.5.13.2 Page 3-72	
3.6 Construction Workforce, Equipment, Traffic, and Schedule	PEA Section and Page Number	
3.6.1: Construction Workforce a) Provide the estimated number of construction crew members. In the absence of project-specific data, provide estimates based on past projects of a similar size and type. b) Describe the crew deployment. Would crews work concurrently (i.e., multiple crews at different sites); would they be phased? How many crews could be working at the same time and where? c) Describe the different types of activities to be undertaken during construction, the number of crew members for each activity (i.e. trenching, grading, etc.), and number and types of equipment expected to be used for the activity. Include a written description of the activity.	3.6.1 Page 3-73 Table 3.6-1	
3.6.2: Construction Equipment. Provide a tabular list of the types of equipment expected to be used during construction of the proposed project including the horsepower. Define the equipment that would be used by each phase.	3.6.2 Page 3-74 Table 3.6-1	
3.6.3: Construction Traffic a) Describe how the construction crews and their equipment would be transported to and from the proposed project site. b) Provide vehicle type, number of vehicles, and estimated hours of operation per day, week, and month for each construction activity and phase. c) Provide estimated vehicle trips and vehicles miles traveled (VMT) for each construction	3.6.3 Page 3-90 Table 3.6-2	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
activity and phase. Provide separate values for construction crews commuting, haul trips, and other types of construction traffic.		
3.6.4: Construction Schedule a) Provide the proposed construction schedule (e.g., month and year) for each segment or project component, and for each construction activity and phase. b) Provide and explain the sequencing of construction activities, and if they would or would not occur concurrently. c) Provide the total duration of each construction activity and phase in days or weeks. d) Identify seasonal considerations that may affect the construction schedule, such as weather or anticipated wildlife restrictions, etc. The proposed construction should account for such factors.	3.6.4 Page 3-91 Table 3.6-3	
3.6.5: Work Schedule a) Describe the anticipated work schedule, including the days of the week and hours of the day when work would occur. Clearly state if work would occur at night or on weekends and identify when and where this could occur. b) Provide the estimated number of days or weeks that construction activities would occur at each type of work area. For example, construction at a stationary facility or staging area may occur for the entire duration of construction, but construction at individual work areas along a linear project would be limited to a few hours, days or weeks, and only a fraction of the total construction period.	3.6.5 Page 3-92 Table 3.6-4	
3.7 Post-Construction	PEA Section and Page Number	
3.7.1: Configuring and Testing. Describe the process and duration for post-construction configuring and testing of facilities. Describe the number of personnel and types of equipment that would be involved.	3.7.1 Page 3-93	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.7.2: Landscaping. Describe any landscaping that would be installed. Provide a conceptual landscape plan that identifies the locations and types of plantings that will be used. Identify whether plantings will include container plants or seeds. Include any water required for landscaping in the description of water use above.	3.7.2 Page 3-94	
3.7.3 Demobilization and Site Restoration		
3.7.3.1: Demobilization. Describe the process for demobilization after construction activities, but prior to leaving the work site. For example, describe final processes for removing stationary equipment and materials, etc.	3.7.3.1 Page 3-94	
3.7.3.2: Site Restoration. Describe how cleanup and post-construction restoration would be performed (i.e., personnel, equipment, and methods) on all project ROWs, sites, and extra work areas. Things to consider include, but are not limited to, restoration of the following: a) Restoring natural drainage patterns b) Recontouring disturbed soil c) Removing construction debris d) Vegetation e) Permanent and semi-permanent erosion control measures f) Restoration of all disturbed areas and access roads, including restoration of any public trails that are used as access, as well as any damaged sidewalks, agricultural infrastructure, or landscaping, etc. g) Road repaving and striping, including proposed timing of road restoration for underground construction within public roadways	3.7.3.2 Page 3-94	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.8 Operation and Maintenance	PEA Section and Page Number	
3.8.1: Regulations and Standards a) Identify and describe all regulations and standards applicable to operation and maintenance of project facilities. b) Provide a copy of any applicable Wildfire Management Plan and describe any special procedures for wildfire management.	3.8.1 Page 3-94	
3.8.2: System Controls and Operation Staff a) Describe the systems and methods that the Applicant would use for monitoring and control of project facilities (e.g., on-site control rooms, remote facilities, standard monitoring and protection equipment, pressure sensors, automatic shut-off valves, and site and equipment specific for monitoring and control such as at natural gas well pads). b) If new full-time staff would be required for operation and/or maintenance, provide the number of positions and purpose.	3.8.2 Page 3-96	
3.8.3: Inspection Programs a) Describe the existing and proposed inspection programs for each project component, including the type, frequency, and timing of scheduled inspections (i.e., aerial inspection, ground inspection, pipeline inline inspections). b) Describe any enhanced inspections, such as within any High Fire Threat Districts consistent with applicable Wildfire Management Plan requirements. c) Describe the inspection processes, such as the methods, number of crew members, and how access would occur (i.e., walk, vehicle, all-terrain vehicle, helicopter, drone, etc.). If new access would be required, describe any restoration that would be provided for the access roads.	3.8.3 Page 3-96	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.8.4: Maintenance Programs a) Describe the existing and proposed maintenance programs for each project component. b) Describe scheduled maintenance or facility replacement after the designated lifespan of the equipment. c) Identify typical parts and materials that require regular maintenance and describe the repair procedures. d) Describe any access road maintenance that would occur. e) Describe maintenance for surface or color treatment. f) Describe cathodic protection maintenance that would occur. g) Describe ongoing landscaping maintenance that would occur.	3.8.4 Page 3-98	
3.8.5: Vegetation Management Programs a) Describe vegetation management programs within and surrounding project facilities. Distinguish between any different types of vegetation management. b) Describe any enhanced vegetation management, such as within any High Fire Threat Districts consistent with any applicable Wildfire Management Plan requirements. Identify the areas where enhanced vegetation management would be conducted.	3.8.5 Page 3-99	
3.9 Decommissioning	PEA Section and Page Number	
3.9.1: Decommissioning. Provide detailed information about the current and reasonably foreseeable plans for the disposal, recycling, or future abandonment of all project facilities.	3.9 Page 3-100	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.10 Anticipated Permits and Approvals	PEA Section and Page Number	
3.10.1: Anticipated Permits and Approvals. Identify all necessary federal, state, regional, and local permits that may be required for the project. For each permit, list the responsible agency and district/office representative with contact information, type of permit or approval, and status of each permit with date filed or planned to file. For example: a) Federal Permits and Approvals i. U.S. Fish and Wildlife Service ii. U.S. Army Corps of Engineers iii. Federal Aviation Administration iv. U.S. Forest Service v. U.S. Department of Transportation – Office of Pipeline Safety vi. U.S. Environmental Protection Agency (Resource Conservation and Recovery Act; Comprehensive Environmental Response, Compensation, and Liability Act) b) State and Regional Permits i. California Department of Fish and Wildlife ii. California Department of Transportation iii. California State Lands Commission iv. California Coastal Commission v. State Historic Preservation Office, Native American Heritage Commission vi. State Water Resources Control Board vii. California Division of Oil, Gas and Geothermal Resources viii. Regional Air Quality Management District ix. Regional Water Quality Control Board (National Pollutant Discharge Elimination System General Industrial Storm Water Discharge Permit) x. Habitat Conservation Plan Authority (if applicable) See also Error! Reference source not found. of example permitting requirements and processes.	3.10.1 Page 3-101 Table 3.10-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.10.2: Rights-of-Way or Easement Applications. Demonstrate that applications for ROWs or other proposed land use have been or soon will be filed with federal, state, or other land-managing agencies that have jurisdiction over land that would be affected by the project (if any). Discuss permitting plans and timeframes and provide the contact information at the federal agency(ies) approached.	3.10.2 Page 3-101	
3.11 Applicant Proposed Measures	PEA Section and Page Number	
3.11 Applicant Proposed Measures a) Provide a table with the full text of any Applicant Proposed Measure. Where applicable, provide a copy of Applicant procedures, plans, and standards referenced in the Applicant Proposed Measures. b) Within Chapter 5, describe the basis for selecting a particular Applicant Proposed Measure and how the Applicant Proposed Measure would reduce the impacts of the project.	3.11 Page 3-102 Table 3.11-1 Chapter 5 sections	
3.12 Project Description Graphics, Mapbook, and GIS Requirements	PEA Section and Page Number	
3.12.1: Graphics. Provide diagrams of the following as applicable: a) All pole, tower, pipe, vault, conduit, and retaining wall types b) For poles, provide typical drawings with approximate diameter at the base and tip; for towers, estimate the width at base and top. c) A typical detail for any proposed underground duct banks and vaults d) All substation, switchyard, building, and facility layouts e) Trenching, drilling, pole installation, pipe installation, vault installation, roadway construction, facility removal, helicopter uses, conductor installation, traffic control, and other construction activities where a diagram would assist the reader in	Appendix A1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
visualizing the work area and construction approach f) Typical profile views of proposed aboveground facilities and existing facilities to be modified within the existing and proposed ROW (e.g., typical cross-section of existing and proposed facilities by project segment). g) Photos of representative existing and proposed structures		
3.12.2: Mapbook. Provide a detailed mapbook on an aerial imagery basemap at a scale between 1:3000 and 1:6000 (or as appropriate and legible) that show mileposts, roadways, and all project components and work areas including: a) All proposed above-ground and underground structure/facility locations (e.g., poles, conductor, substations, compressor stations, telecommunication lines, vaults, duct bank, lighting, markers, etc.) b) All existing structures/facilities that would be modified or removed c) Identify by milepost where existing ROW will be used and where new ROW or land acquisition will be required. d) All permanent work areas including permanent facility access e) All access roads including, existing, temporary, and new permanent access f) All temporary work areas including staging, material storage, field offices, material laydown, temporary work areas for above ground (e.g., pole installation) and underground facility construction (e.g., trenching and duct banks), helicopter landing zones, pull and tension sites, guard structures, shoo flys etc. g) Areas where special construction methods (e.g., jack and bore, HDD, blasting, retaining walls etc.) may need to be employed h) Areas where vegetation removal may occur i) Areas to be heavily graded and where slope stabilization measures would be employed including any retaining walls	Appendix A1	Where existing ROW will be used or new ROW or land acquisition will be required is unavailable in GIS until the project is approved by CPUC and final design and land survey occurs. Refer to Table 3.4-1 and Table 3.4-2 for approximate available easement or acquisition information.

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
3.12.3: GIS Data. Provide GIS data for all features and ROW shown on the detailed mapbook.	separate GIS submittal	
3.12.4: GIS Requirements. Provide the following information for each pole/tower that would be installed and for each pole/tower that would be removed: a) Unique ID number and type of pole (e.g., wood, steel, etc.) or tower (e.g., self-supporting lattice) both in a table and in the attributes of the GIS data provided b) Identify pole/tower heights and conductor sizes in the attributes of the GIS data provided.	separate GIS submittal	
3.12.5: Natural Gas Facilities GIS Data. For natural gas facilities, provide GIS data for system cross ties and all laterals/taps, valve stations, and new and existing inspection facilities (e.g., pig launcher sites).	n/a	Natural gas facilities are not part of the proposed project
4 Description of Alternatives	PEA Section and Page Number	
4.1 Alternatives Considered. Identify alternatives to the proposed project. Include the following: a) All alternatives to the proposed project that were suggested, considered, or studied by the CAISO or by CAISO stakeholders b) Alternatives suggested by the public or agencies during public outreach efforts conducted by the Applicant c) Reduced footprint alternatives, including, e.g., smaller diameter pipelines and space for fewer electric transformers d) Project phasing options (e.g., evaluate the full build out for environmental clearance but consider an initial, smaller buildout that would only be expanded [in phases] if needed) e) Alternative facility and construction activity sites (e.g., substation, compressor station, drilling sites, well-head sites, staging areas) f) Renewable, energy conservation, energy efficiency, demand response, distributed energy resources, and energy storage alternatives	4.2 Page 4-3 Table 4.1-1 Table 4.2-1 Appendix A1 Figure 4.1-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
g) Alternatives that would avoid or limit the construction of new transmission-voltage facilities or new gas transmission pipelines h) Other technological alternatives (e.g., conductor type) i) Route alternatives and route variations j) Alternative engineering or technological approaches (e.g., alternative types of facilities, or materials, or configurations) k) Assign an identification label and brief, descriptive title to each alternative described in this PEA chapter (e.g., Alternative A: No Project; Alterative B: Reduced Footprint 500/115-kV Substation; Alternative C: Ringo Hills 16-inch Pipeline Alignment; Alternative D1: Lincoln Street Route Variation; etc.). Each alternative will be easily identifiable by reading the brief title. Provide a description of each alternative. The description of each alternative will discuss to what extent it would be potentially feasible, meet the project's underlying purpose, meet most of the basic project objectives, and avoid or reduce one or more potentially significant impacts. If the Applicant believes that an alternative is infeasible or the implementation is remote and speculative (CEQA Guidelines Section 15126.6(f)(3), clearly explain why. If significant environmental effects are possible without mitigation, alternatives will be provided in the PEA that are capable of avoiding or reducing any potentially significant environmental effects, even if the alternative(s) substantially impede the attainment of some project objectives or are costlier.		
4.2 No Project Alternative. Include a thorough description of the No Project Alternative. The No Project Alternative needs to describe the range of actions that are reasonably foreseeable if the proposed project is not approved. The No Project Alternative will be described to meet the requirements of CEQA Guidelines Section15126.6(e).	4.3 Page 4-10	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
4.3 Rejected Alternatives. Provide a detailed discussion of all alternatives considered by the Applicant that were not selected by the Applicant for a full description in the PEA and analysis in PEA Chapter 5. The detailed discussion will include the following: a) Description of the alternative and its components b) Map of any alternative sites or routes c) Discussion about the extent to which the alternative would meet the underlying purpose of the project and its basic objectives d) Discussion about the feasibility of implementing the alternative e) Discussion of whether the alternative would reduce or avoid any significant environmental impacts of the proposed project f) Discussion of any new significant impacts that could occur from implementation of the alternative g) Description of why the alternative was rejected h) Any comments from the public or agencies about the alternative during PEA preparation	4.4 Page 4-10 Appendix A1 Figure 4.4-1	
For Natural Gas Storage Projects:		
4.4 Natural Gas Storage Alternatives. In addition to the requirements included above, alternatives to be considered for proposed natural gas storage projects include the following, where applicable: a) Alternative reservoir locations considered for gas storage including other field locations and other potential storage areas b) Alternative pipelines, road, and utility siting c) Alternative suction gas requirements, and injection/withdrawal options	n/a	Natural gas facilities are not part of the proposed project
5 Environmental Analysis 5.1 Aesthetics	PEA Section and Page Number	
5.1.1 Environmental Setting		
5.1.1.1: Landscape Setting. Briefly described the regional and local landscape setting.	5.1.1.1 Page 5.1-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.1.1.2: Scenic Resources. Identify and describe any vistas, scenic highways, national scenic areas, or other scenic resources within and surrounding the project area (approximately 5-mile buffer but may be greater if necessary). Scenic resources may also include but are not limited to historic structures, trees, or other resources that contribute to the scenic values where the project would be located.	5.1.1.2 Page 5.1-2	
5.1.1.3: Viewshed Analysis a) Conduct a viewshed analysis for the project area (approximately 5-mile buffer but may be greater if necessary). b) Describe the project viewshed, including important visibility characteristics for the project site, such as viewing distance, viewing angle, and intervening topography, vegetation, or structures. c) Provide a supporting map (or maps) showing project area, landscape units, topography (i.e., hillshade), and the results of the viewshed analysis. Provide associated GIS data.	5.1.1.3 Page 5.1-3 Appendix A2 Figure 5.1-1b	
5.1.1.4: Landscape Units. Identify and describe landscape units (geographic zones) within and surrounding the project area (approximately 5-mile buffer but may be greater if necessary) that categorizes different landscape types and visual characteristics, with consideration to topography, vegetation, and existing land uses. Landscape units should be developed based on the existing landscape characteristics rather than the project's features or segments.	5.1.1.4 Page 5.1-3	
5.1.1.5: Viewers and Viewer Sensitivity. Identify and describe the types of viewers expected within the viewshed and landscape units. Describe visual sensitivity to general visual change based on viewing conditions, use of the area, feedback from the public about the project, and landscape characteristics.	5.1.1.5 Page 5.1-4	
5.1.1.6: Representative Viewpoints a) Identify representative viewpoints from publicly accessible locations (up to	5.1.1.6 Page 5.1-5 Table 5.1-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
approximately 5-mile buffer but may be greater if appropriate). The number and location of the viewpoints must represent a range of views of the project site from major roads, highways, trails, parks, vistas, landmarks, and other scenic resources near the project site. Multiple viewpoints should be included where the project site would be visible from sensitive scenic resources to provide context on different viewing distances, perspectives, and directions. b) Provide the following information for each viewpoint: i. Number, title, and brief description of the location ii. Types of viewers iii. Viewing direction(s) and distance(s) to the nearest proposed project features iv. Description of the existing visual conditions and visibility of the project site as seen from the viewpoint and shown in the representative photographs c) Provide a supporting map (or maps) showing project features and representative viewpoints with arrows indicating the viewing direction(s). Provide associated GIS data (may be combined with GIS data request below for representative photographs).	Appendix A2 Figure 5.1-1a	
5.1.1.7: Representative Photographs a) Provide high resolution photographs taken from the representative viewpoints in the directions of all proposed project features. Multiple photographs should be provided where project features may be visible in different viewing directions from the same location. b) Provide the following information for each photograph: i. Capture time and date ii. Camera body and lens model	5.1.1.7 Page 5.1-5 Appendix A2 Figure 5.1-2	a)

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
iii. Lens focal length and camera height when taken c) Provide GIS data associated with each photograph location that includes coordinates (<1 meter resolution), elevations, and viewing directions, as well as the associated viewpoint.		
5.1.1.8: Visual Resource Management Areas a) Identify any visual resource management areas within and surrounding the project area (approximately 5-mile buffer). b) Describe any project areas within visual resource management areas. c) Provide a supporting map (or maps) showing project features and visual resource management areas. Provide associated GIS data.	5.1.1.8 Page 5.1-5	n/a
5.1.2 Regulatory Setting		
5.1.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding aesthetics and visual resource management.	5.1.2 Page 5-1.5	
5.1.3 Impact Questions		
5.1.3.1: Impact Questions. The impact questions include all aesthetic impact questions in the current version of CEQA Guidelines, Appendix G. 5.1.3.2: Additional CEQA Impact Questions: None.	5.1.3 Page 5.1-12	
5.1.4 Impact Analysis		
5.1.4.1: Visual Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.1.4.3 Page 5.1-13	
The following information will be included in the PEA or a technical Appendix to support the aesthetic impact analysis:		
5.1.4.2: Analysis of Selected Viewpoints. Identify the methodology and assumptions that were applied in selecting key observation points for visual simulation. It is recommended that viewpoints are selected where viewers may be	5.1.4.4 Page 5.1-22 Appendix A2 Figure 5.1-3a	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
sensitive to visual change (public views) and in areas that are visually sensitive, or heavily trafficked or visited.	Figure 5.1-4a Figure 5.1-5a Figure 5.1-6a	
5.1.4.3: Visual Simulation a) Identify methodology and assumptions for completing the visual simulations. The simulations should include photorealistic 3-D models of project features and any land changes within the KOP view. The visual simulations should depict conditions: i. Immediately following construction, and ii. After vegetation establishment in all areas of temporary impact to illustrate the visual impact from vegetation removal. b) Provide high resolution images for the visual simulations.	5.1.4.5 Page 5.1-23 Table 5.1-3 Appendix A2 Figure 5.1-3b Figure 5.1-4b Figure 5.1-5b Figure 5.1-6b	
5.1.4.4: Analysis of Visual Change a) Identify the methodology and assumptions for completing the visual change analysis. The methodology should be consistent with applicable visual resource management criteria. b) Provide a description of the visual change for each selected viewpoint. Describe any conditions that would change over time, such as vegetation growth. c) Describe the effects of visual change that would result in the entire project area, as indicated by the selected viewpoints that were simulated and analyzed.	5.1.4.6 Page 5.1-23	
5.1.4.5: Lighting and Marking. Identify all new sources of permanent lighting. Identify any proposed structures or lines that could require FAA notification. Identify any structures or line segments that could require lighting and marking based on flight patterns and FAA or military requirements. Provide supporting documentation in an Appendix (e.g., FAA notice and criteria tool results).	5.1.4.7 Page 5.1-27	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.2 Agriculture and Forestry Resources	PEA Section and Page Number	
5.2.1 Environmental Setting		
5.2.1.1: Agricultural Resources and GIS a) Identify all agricultural resources that occur within the project area including: i. Areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance ii. Areas under Williamson Act contracts and provide information on the status of the Williamson Act contract iii. Any areas zoned for agricultural use in local plans iv. Areas subject to active agricultural use b) Provide GIS data for agricultural resources within the proposed project area.	5.2.1.3 Page 5.2-2 Figure 5.2-1 Figure 5.2-2 Figure 5.2-3 Table 5.2-2 Table 5.2-3	
5.2.1.2: Forestry Resources and GIS a) Identify all forestry resources within the project area including: i. Forest land as defined in Public Resources Code 12220(g) ii. Timberland as defined in Public Resource Code section 4526 iii. Timberland zoned Timberland Production as defined in Government Code section 51104(g) b) Provide GIS data for all forestry resources within the proposed project area.	5.2.1.4 Page 5.2-5	
5.2.2 Regulatory Setting		
5.2.2: Agriculture and Forestry Regulations. Identify all federal, state, and local policies for protection of agricultural and forestry resources that apply to the proposed project.	5.2.2 Page 5.2-6	
5.2.3 Impact Questions		
5.2.3.1: Agriculture and Forestry Impact Questions. The impact questions include all agriculture and forestry impact questions in the current version of CEQA Guidelines, Appendix G. 5.2.3.2: Additional CEQA Impact Questions: None.	5.2.3 Page 5.2-7	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.2.4 Impact Analyses		
5.2.4.1: Agriculture and Forestry Impacts. Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.2.4.3 Page 5.2-9 Figure 5.2-1	
Incorporate the following discussions into the analysis of impacts:		
5.2.4.2: Prime Farmland Soil Impacts. Calculate the acreage of Prime Farmland soils that would be affected by construction and operation and maintenance.	5.2.4.3 Page 5.2-9	
5.2.4.3. Williamson Act Impacts. Describe the approach to resolve potential conflicts with Williamson Act contract (if applicable)	5.2.4.3 Page 5.2-10	
5.3 Air Quality	PEA Section and Page Number	
5.3.1 Environmental Setting		
5.3.1.1: Air Quality Plans Identify and describe all applicable air quality plans and attainment areas. Identify the air basin(s) for the project area. If the project is located in more than one attainment area and/or air basin, provide the extent in each attainment area and air basin.	5.3.2.3 Page 5.3-7	
5.3.1.2: Air Quality. Describe existing air quality in the project area. a) Identify existing air quality exceedance of National Ambient Air Quality Standards and California Ambient Air Quality Standards in the air basin. b) Provide the number of days that air quality in the area exceeds state and federal air standards for each criteria pollutant that where air quality standards are exceeded. c) Provide air quality data from the nearest representative air monitoring station(s).	5.3.2.2 Page 5.3-6 Table 5.3-1 Table 5.3-2 Table 5.3-3	
5.3.1.3: Sensitive Receptor Locations. Identify the location and types of each sensitive receptor locations within 1,000 feet of the project area. Provide GIS data for sensitive receptor locations.	5.3.2.4 Page 5.3-8 Figure 5.3-1	
5.3.2 Regulatory Setting		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.3.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding air quality	5.3.1 Page 5.3-1	
5.3.2.2: Air Permits. Identify and list all necessary air permits.	5.3.1.5 Page 5.3-5	
5.3.3 Impact Questions		
5.3.3.1: Impact Questions. The impact questions include all air quality impact questions in the current version of CEQA Guidelines, Appendix G. 5.3.3.2: Additional CEQA Impact Questions: None.	5.3.3 Page 5.3-9	
5.3.4 Impact Analysis		
5.3.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.3.4 Page 5.3-9	
5.3.4.2: Air Quality Emissions Modeling. Model project emissions using the most recent version of CalEEMod and/or a current version of other applicable modeling program. Provide all model input and output data sheets in Microsoft Excel format to allow CPUC to evaluate whether project data was entered into the modeling program accurately. The assumptions used in the air quality modeling must be consistent with all PEA information about the project's schedule, workforce, and equipment. The following information will be addressed in the emissions modeling, Air Quality Appendix, and PEA: a) Quantify the expected emissions of criteria pollutants from all project-related sources. Quantify emissions for both construction and operation (e.g., compressor equipment). b) Identify manufacturer's specifications for all proposed new emission sources. For proposed new, additional, or modified compressor units, include the horsepower, type, and energy source. c) Describe any emission control systems that are included in the air quality analysis (e.g., installation of filters, use of EPA Tier II, III, or IV equipment, use of electric engines, etc.).	5.3.4 Page 5.3-9 App B1a App B1b Table 5.3-5 Table 5.3-6 Table 5.3-7 Table 5.3-8 Table 5.3-9 Table 5.3-10 Table 5.3-11 Table 5.3-12	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
d) When multiple air basins may be affected by the project, model air emissions within each air basin and provide a narrative (supported by calculations) that clearly describes the assumptions around the project activities considered for each air basin. Provide modeled emissions by attainment area or air basin (supported by calculations).		
5.3.4.3: Air Quality Emissions Summary. Provide a table summarizing the air quality emissions for the project and applicable thresholds for each applicable attainment area. Include a summary of uncontrolled emissions (prior to application of any APMs) and controlled emissions (after application of APMs). Clearly identify the assumptions that were applied in the controlled emissions estimates.	5.3.4.4 Page 5.3-12	
5.3.4.4: Health Risk Assessment. Complete a Health Risk Assessment when air quality emissions have the potential to lead to human health impacts. If health impacts are not anticipated from project emissions, the analysis should clearly describe why emissions would not lead to health impacts.	Appendix B2 Table 5.3-13	
5.4 Biological Resources	PEA Section and Page Number	
5.4.1 Environmental Setting		
5.4.1.1: Biological Resources Technical Report. Provide a Biological Resources Technical Report as an Appendix to the PEA that includes all information specified in Attachment 2.	Appendix C3	
The following biological resources information will be presented in the PEA:		
5.4.1.2: Survey Area (Local Setting). Identify and describe the biological resources survey area as documented in the Biological Resources Technical Report. All temporary and permanent project areas must be within the survey area.	5.4.1.1 Page 5.4-1 Figure 5.4-1	
5.4.1.3: Vegetation Communities and Land Cover	Appendix C1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
a) Identify, describe, and quantify vegetation communities and land cover types within the biological resources survey area. b) Clearly identify any sensitive natural vegetation communities that meet the definition of a biological resource under CEQA (i.e., rare, designated, or otherwise protected), such as, but not limited to, riparian habitat. c) Provide a supporting map (or maps) showing project features and vegetation communities and land cover type.	5.4.1.2 Page 5.4-5 Figure 5.4-2	
5.4.1.4: Aquatic Features a) Identify, describe, and quantify aquatic features within the biological resources survey area that may provide potentially suitable aquatic habitat for rare and special-status species. b) Identify and quantify potentially jurisdictional aquatic features and delineated wetlands, according to the Wetland Delineation Report and Biological Resources Technical Report. c) Provide a supporting map (or maps) showing project features and aquatic resources.	Appendix C2 5.4.1.3 Page 5.4-7 Figure 5.4-3	
5.4.1.5: Habitat Assessment. Identify rare and special-status species with potential to occur in the project region (approximately a 5-mile buffer but may be larger if necessary). For each species, provide the following information: a) Common and scientific name b) Status and/or rank c) Habitat characteristics (i.e., vegetation communities, elevations, seasonal changes, etc.) d) Blooming characteristics for plants e) Breeding and other dispersal (range) behavior for wildlife f) Potential to occur within the survey area (i.e., Present, High Potential, Moderate Potential, Low Potential, or Not Expected), with justification based on the results of the	5.4.1.4 Page 5.4-7 Table 5.4-1 Table 5.4-2	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
records search, survey findings, and presence of potentially suitable habitat g) Specific types and locations of potentially suitable habitat that correspond to the vegetation communities and land cover and aquatic features		
5.4.1.6: Critical Habitat a) Identify and describe any critical habitat for rare or special-status species within and surrounding the project area (approximately a 5-mile buffer). b) Provide a supporting map (or maps) showing project features and critical habitat.	5.4.1.4 Page 5.4-8	There is no designated critical habitat within the vicinity of the project.
5.4.1.7: Native Wildlife Corridors and Nursery Sites a) Identify and describe regional and local wildlife corridors within and surrounding the project area (approximately a 5-mile buffer), including but not limited to, landscape and aquatic features that connect suitable habitat in regions otherwise fragmented by terrain, changes in vegetation, or human development. b) Identify and describe regional and local native wildlife nursery sites within and surrounding the project area (approximately a 5-mile buffer), as identified through the records search, surveys, and habitat assessment. c) Provide a supporting map (or maps) showing project features, native wildlife corridors, and native nursery sites.	n/a	
5.4.1.8: Biological Resource Management Areas a) Identify any biological resource management areas (i.e., conservation or mitigation areas, HCP or NCCP boundaries, etc.) within and surrounding the project area (approximately 5-mile buffer). b) Identify and quantify any project areas within biological resource management areas.	5.4.1.5 Page 5.4-15	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Provide a supporting map (or maps) showing project features and biological resource management areas.		
5.4.2 Regulatory Setting		
5.4.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding biological resources.	5.4.2 Page 5.4-15	
5.4.2.2: Habitat Conservation Plan. Provide a copy of any relevant Habitat Conservation Plan.	5.4.1.5 Page 5.4-15	
5.4.3 Impact Questions		
5.4.3.1: Impact Questions. The impact questions include all biological resource impact questions in the current version of CEQA Guidelines, Appendix G. 5.4.3.2: Additional CEQA Impact Question: Would the project create a substantial collision or electrocution risk for birds or bats?	5.4.3 Page 5.4-19	
5.4.4 Impact Analysis		
5.4.4.1: Impact Analysis Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for Biological Resources and any additional impact questions listed above.	5.4.4 Page 5.4-12	
The following information will be included in the impact analysis:		
5.4.4.2: Quantify Habitat Impacts. Provide the area of impact in acres by each habitat type. Quantify temporary and permanent impacts. For all temporary impacts provide the following: a) Description of the restoration and revegetation approach b) Vegetation species that would be planted within the area of temporary disturbance c) Procedures to reduce invasive weed encroachment within areas of temporary disturbance d) Expected timeframe for restoration of the site	5.4.4.3 Page 5.4-28	
5.4.4.3: Special-Status Species Impacts. Identify anticipated impacts on special-status species. Identify any take permits that are anticipated for	5.4.4.3 Page 5.4-26	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
the project. If an existing habitat conservation plan (HCP) or natural communities conservation plan (NCCP) would be used for the project, provide current accounting of take coverage included in the HCP/NCCP to demonstrate that there is sufficient habitat coverage remaining under the existing permit.		
5.4.4.4: Wetland Impacts. Quantify the area (in acres) of temporary and permanent impacts on wetlands. Include the following details: a) Provide a table identifying all wetlands, by milepost and length, crossed by the project and the total acreage of each wetland type that would be affected by construction. b) Discuss construction and restoration methods proposed for crossing wetlands. c) If wetlands would be filled or permanently lost, describe proposed measures to compensate for permanent wetland losses. d) If forested wetlands would be affected, describe proposed measures to restore forested wetlands following construction.	5.4.4.3 Page 5.4-29	
5.4.4.5: Avian Impacts. Describe avian obstructions and risk of electrocution from the project. Describe any standards that will be implemented as part of the project to reduce the risk of collision and electrocution.	5.4.4.4 Page 5.4-31	
5.5 Cultural Resources	PEA Section and Page Number	
5.5.1 Environmental Setting		
5.5.1.1: Cultural Resource Reports. Provide a cultural resource inventory and evaluation report that addresses the technical requirement provided in Attachment 3.	App D	Appendix D1 – Architectural Identification and Evaluation Report, Appendix D2 – Cultural Resources Report, and Appendix D3 – Cultural Resources Report Addendum are confidential and will be filed separately with the CPUC
5.5.1.2: Cultural Resources Summary. Summarize cultural resource survey and inventory results and survey methods. Do not	5.5.1.1 Page 5.5-3 Table 5.5-1 Table 5.5-2	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
provide any confidential cultural resource information within the PEA chapter.	Table 5.5-3 Table 5.5-5	
5.5.1.3: Cultural Resource Survey Boundaries. Provide a map with mileposts showing the boundaries of all survey areas in the report. Provide the GIS data for the survey area. Provide confidential GIS data for the resource locations and boundaries separately under confidential cover.	Described in text.	Refer to Appendix D2 and Appendix D3 for mapped survey areas.
5.5.2 Regulatory Setting		
5.5.2.1: Regulatory Setting. Identify applicable federal and state regulations for protection of cultural resources.	5.5.2 Page 5.5-15	
5.5.3 Impact Questions		
5.5.3.1: Impact Questions. The impact questions include all cultural resource impact questions in the current version of CEQA Guidelines, Appendix G. 5.5.3.2: Additional CEQA Impact Questions: None.	5.5.3 Page 5.5-21	
5.5.4 Impact Analysis		
5.5.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.5.4 Page 5.5-21	
Include the following information in the impact analysis		
5.5.4.2: Human Remains. Describe the potential for encountering human remains or grave goods during the trenching or any other phase of construction. Describe the procedures that would be used if human remains are encountered.	5.5.4.3 Page 5.5-27 EPM CUL- 4a/b	
5.5.4.3: Resource Avoidance. Describe avoidance procedures that would be implemented to avoid known resources.	5.5.4 Pages 5.5-25-26	
5.6 Energy	PEA Section and Page Number	
5.6.1 Environmental Setting		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.6.1.1: Existing Energy Use. Identify energy use of existing infrastructure if the proposed project would replace or upgrade an existing facility.	n/a	The project will not replace or upgrade an existing energy facility
5.6.2 Regulatory Setting		
5.6.2.1: Regulatory Setting. Identify applicable federal, state, or local regulations or policies applicable to energy use for the proposed project.	5.6.2 Page 5.6-2	
5.6.3 Impact Questions		
5.6.3.1: Impact Questions: The impact questions include all energy impact questions in the current version of CEQA Guidelines, Appendix G. 5.6.3.2: Additional CEQA Impact Question: Would the project add capacity for the purpose of serving a non-renewable energy resource?	5.6.3 Page 5.6-4	
5.6.4 Impact Analysis		
5.6.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.6.4.3 Page 5.6-5	
Include the following information in the impact analysis:		
5.6.4.2: Nonrenewable Energy. Identify renewable and non-renewable energy projects that may interconnected to or be supplied by the proposed project.	5.6.4.4 Page 5.6-8	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.6.4.3: Fuels and Energy Use a) Provide an estimation of the amount of fuels (gasoline, diesel, helicopter fuel, etc.) that would be used during construction and operation and maintenance of the project. Fuel estimates should be consistent with Air Quality calculations supporting the PEA. b) Provide the following information on energy use: i. Total energy requirements of the project by fuel type and end use ii. Energy conservation equipment and design features iii. Identification of energy supplies that would serve the project	5.6.4.3 Page 5.6-6 Table 5.6-1 Table 5.6-4 Table 5.6-5 Appendix E	
5.7 Geology, Soils, and Paleontological Resources	PEA Section and Page Number	
5.7.1 Environmental Setting		
5.7.1.1: Regional and Local Geologic Setting. Briefly describe the regional and local physiography, topography, and geologic setting in the project area.	5.7.1.2 Page 5.7-1	Noted
5.7.1.2: Seismic Hazards a) Provide the following information on potential seismic hazards in the project area: i. Identify and describe regional and local seismic risk including any active faults within and surrounding the project area (will be a 10-mile buffer unless otherwise instructed in writing by CEQA Unit Staff during Pre-filing) ii. Identify any areas that are prone to seismic-induced landslides iii. Provide the liquefaction potential for the project area b) Provide a supporting map (or maps) showing project features and major faults, areas of landslide risk, and areas at high risk of liquefaction. Provide GIS data for all faults, landslides, and areas of high liquefaction potential.	5.7.1.3 Page 5.7-2 5.7.1.4 Page 5.7-3 Figure 5.7-1	The project area is relatively flat (0 to 1% slope) and is distant from hills, mountains, or slopes. For these reasons, the project area is not expected to be prone to seismic-induced landslides. The project site is not within a known area of liquefaction hazard per the California Geological Survey, as stated in the PEA.

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.7.1.3: Geologic Units. Identify and describe the types of geologic units in the project area. Include the following information for each geologic unit: a) Summarize the geologic units within the project area. b) Identify any previous landslides in the area and any areas that are at risk of landslide. c) Identify any unstable geologic units. d) Provide a supporting map (or maps) showing project features and geologic units. Clearly identify any areas with potentially hazardous geologic conditions. Provide associated GIS data.	5.7.1.5 Page 5.7-4 Figure 5.7-2	No geologic hazards were described in this section as being present so none identified on the geologic unit map.
5.7.1.4: Soils. Identify and describe the types of soils in the project area. a) Summarize the soils within the project area. b) Clearly identify any soils types that could be unstable (e.g., at risk of lateral spreading, subsidence, liquefaction, or collapse). c) Provide information on erosion susceptibility for each soil type that occurs in the project area. d) Provide a supporting map (or maps) showing project features and soils. Provide associated GIS data.	5.7.1.6 Page 5.7-5 Figure 5.7-3	
5.7.1.5: Paleontological Report. Provide a paleontological report that includes the following: a) Information on any documented fossil collection localities within the project area and a 500-foot buffer. b) A paleontological resource sensitivity analysis based on published geological mapping and the resource sensitivity of each rock type. c) Supporting maps and GIS data.	5.7.1.7 Page 5.7-6 Table 5.7-1 Appendix F4	
5.7.2 Regulatory Setting		
5.7.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding geology, soils, and paleontological resources.	5.7.2 Page 5.7-9	
5.7.3 Impact Questions		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.7.3.1: Impact Questions. The impact questions include all geology, soils, and paleontological resource impact questions in the current version of CEQA Guidelines, Appendix G. 5.7.3.2: Additional CEQA Impact Questions: None.	5.7.3 Page 5.7-12	
5.7.4 Impact Analysis		
5.7.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.7.4.3 Page 5.7-16	
Include the following information in the impact analysis:		
5.7.4.2: Geotechnical Requirements. Identify any geotechnical requirements that would be implemented to address effects from unstable geologic units or soils. Describe how the recommendation would be applied (i.e., when and where).	5.7.4.3 Page 5.7-16	
5.7.4.3: Paleontological Resources. Identify the potential to disturb paleontological resources based on the depth of proposed excavation and paleontological sensitivity of geologic units within the project area.	5.7.4.3 Page 5.7-20	
5.8 Greenhouse Gas Emissions	PEA Section and Page Number	
5.8.1 Environmental Setting		
5.8.1.1: GHG Setting. Provide a description of the setting for greenhouse gases (GHGs). The setting should consider any GHG emissions from existing infrastructure that would be upgraded or replaced by the proposed project.	5.8.1 Page 5.8-1	
5.8.2 Regulatory Setting		
5.8.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for greenhouse gases.	5.8.2 Page 5.8-2	
5.8.3 Impact Questions		
5.8.3.1 Impact Questions. The impact questions include all greenhouse gas impact questions in	5.8.3 Page 5.8-4	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
the current version of CEQA Guidelines, Appendix G. 5.8.3.2: Additional CEQA Impact Questions: None.		
5.8.4 Impact Analysis		
5.8.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.8.4 Page 5.8-4	An explanation of the use of the SCAQMD thresholds is provided in the second paragraph of Section 5.8.4.1. The approach of using SCAQMD GHG threshold is consistent with the GHG analysis approach of other PG&E projects in SJVAPCD. In addition, in several recent CEQA documents, the CPUC has elected to use an approach to determine the significance of GHG construction emissions based on guidance developed by SCAQMD. The chapter includes baseline information and the annual GHG construction emissions from the project so that CPUC may compare them to its preferred thresholds.
Include the following information in the impact analysis:		
5.8.4.2: GHG Emissions. Provide a quantitative assessment of GHG emissions for construction and operation and maintenance of the proposed project. Provide model results and all model files. Modeling will be conducted using the latest version of the emissions model at the time of application filing (e.g., most recent version of CalEEMod). GHG emissions will be provided for the following conditions: a) Uncontrolled emissions (before APMs are applied) b) Controlled emissions considering application of APMs i. Based on the modeled GHG emissions, quantify the project's contribution to and analyze the project's effect on climate change. Identify and provide justification for	Appendix B1a Appendix B1b Table 5.8-2 Table 5.8-3 Table 5.8-4 Table 5.8-5 Table 5.8-6	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
the timeframe considered in the analysis. ii. Discuss any programs already in place to reduce GHG emissions on a system-wide level. This includes the Applicant's voluntary compliance with the EPA SF6 reduction program, reductions from energy efficiency, demand response, LTPP, etc. iii. For any significant impacts, identify potential strategies that could be employed by the project to reduce GHGs during construction or operation and maintenance consistent with OPR Advisory on CEQA and Climate Change.		
Natural Gas Storage		
5.8.4.3: Natural Gas Storage Accident Conditions. In addition to the requirements above, identify the potential GHG emissions that could result in the event of a gas leak.	n/a	Natural gas storage is not a component of the proposed project
5.8.4.4: Monitoring and Contingency Plan. Provide a comprehensive monitoring plan that would be implemented during project operation to monitor for gas leaks. The plan should identify a monitoring schedule, description of monitoring activities, and actions to be implemented if gas leaks are observed.	n/a	Natural gas storage is not a component of the proposed project
5.9 Hazards, Hazardous Materials, and Public Safety	PEA Section and Page Number	
5.9.1 Environmental Setting		
5.9.1.1: Hazardous Materials Report. Provide a Phase I Environmental Site Assessment or similar hazards report for the proposed project area. Describe any known hazardous materials locations within the project area and the status of the site.	Appendix G1 Appendix G2 Table 5.9-1	
5.9.1.2: Airport Land Use Plan. Identify any airport land use plan(s) within the project area.	n/a	
5.9.1.3: Fire Hazard. Identify if the project occurs within federal, state, or local fire responsibility areas and identify the fire hazard severity rating	5.9.1.4 Page 5.9-3	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
for all project areas, including temporary work areas and access roads.		
5.9.1.4: Metallic Objects. For electrical projects, identify any metallic pipelines or cables within 25 feet of the project.	5.9.1.5 Page 5.9-4	
5.9.1.5: Pipeline History (for Natural Gas Projects). Provide a narrative describing the history of the pipeline system(s) to which the project would connect, list of previous owner and operators, and detailed summary of the pipeline systems' safety and inspection history.	n/a	
5.9.2 Regulatory Setting		
5.9.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for hazards, hazardous materials, and public safety.	5.9.2 Page 5.9-7	
5.9.2.2: Touch Thresholds. Identify applicable standards for protection of workers and the public from shock hazards.	5.9.2.4 Page 5.9-11	
5.9.3 Impact Questions		
5.9.3.1: Impact Questions. The impact questions include all hazards and hazardous materials impact questions in the current version of CEQA Guidelines, Appendix G. 5.9.3.2: Additional CEQA Impact Questions: a) Would the project create a significant hazard to air traffic from the installation of new power lines and structures? b) Would the project create a significant hazard to the public or environment through the transport of heavy materials using helicopters? c) Would the project expose people to a significant risk of injury or death involving unexploded ordnance? d) Would the project expose workers or the public to excessive shock hazards?	5.9.3 Page 5.9-12	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.9.4 Impact Analysis		
5.9.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.9.4 Page 5.9-13	
Include the following information in the impact analysis:		
5.9.4.2: Hazardous Materials. Identify the hazardous materials (i.e., chemicals, solvents, lubricants, and fuels) that would be used during construction and operation of the project. Estimate the quantity of each hazardous material that would be stored on site during construction and operation.	5.9.1.8 Page 5.9-5 Table 5.9-2 Table 5.9-3	
5.9.4.3: Air Traffic Hazards. If the project involves construction of above-ground structures (including structure replacement) within the airport land use plan area, provide a discussion of how the project would or would not conflict with height restrictions identified in the airport land use plan and how the project would comply with any FAA or military requirements for the above ground facilities.	5.9.4.4 Page 5.9-24 App G3	
5.9.4.4: Accident or Upset Conditions. Describe how the project facilities would be designed, constructed, operated, and maintained to minimize potential hazard to the public from the failure of project components as a result of accidents or natural catastrophes.	5.9.4.4 Page 5.9-19	
5.9.4.5: Shock Hazard. For electricity projects, identify infrastructure that may be susceptible to induced current from the proposed project. Describe strategies (e.g., cathodic protection) that the project would employ to reduce shock hazards and avoid electrocution of workers or the public.	5.9.4.4 Page 5.9-25	
For Natural Gas and Gas Storage:		
5.9.4.6: Health and Safety Plan. Include in the Health and Safety Plan, plans for addressing gas leaks, fires, etc. Identify sensitive receptors, methods of evacuation, and protection	n/a	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
measures. The Plan will be provided as an Appendix to the PEA.		
5.9.4.7: Health Risk Assessment. Provide a Health Risk Assessment including risk from potential gas leaks, fires, etc. Identify sensitive receptors that would be affected and potential impacts on them if there is a gas release.	n/a	
5.9.4.8: Gas Migration. Describe potential for and effects of gas migration through natural and manmade pathways. a) Provide Applicant Proposed Measures for avoiding gas emissions at the surface from gas migration pathways. b) Provide Applicant Proposed Measures for avoiding emissions of mercaptan and/or other odorizing agents.	n/a	
5.10 Hydrology and Water Quality	PEA Section and Page Number	
5.10.1 Environmental Setting		
5.10.1.1: Waterbodies. Identify by milepost all ephemeral, intermittent, and perennial surface waterbodies crossed by the project. For each, list its water quality classification, if applicable.	5.10.1.4 Page 5.10-2 Table 5.10-1 Figure 5.10-2 Figure 5.10-3	
5.10.1.2: Water Quality. Identify any downstream waters that are on the state 303(d) list and identify whether a total maximum daily load (TMDL) has been adopted or the date for adoption of a TMDL. Identify existing sources of impairment for downstream waters. Describe any management plans that are in place for downstream waters.	5.10.1.5 Page 5.10-4	
5.10.1.3: Groundwater Basin. Identify all known EPA and state groundwater basins and aquifers crossed by the project.	5.10.1.7 Page 5.10-5 Figure 5.10-1	
5.10.1.4: Groundwater Wells and Springs. Identify the locations of all known public and private groundwater supply wells and springs within 150 feet of the project area.	5.10.1.8 Page 5.10-6 Figure 5.10-5	The nearest spring is approximately 3.8 miles northeast of the project. Refer to Section 5.10.1.8.

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.10.1.5: Groundwater Management. Identify the groundwater management status of any groundwater resources in the project area and any groundwater resources that may be used by the project. Describe if groundwater resources in the basin have been adjudicated. Identify any sustainable groundwater management plan that has been adopted for groundwater resources in the project area or describe the status of groundwater management planning in the area.	5.10.1.9 Page 5.10-5	Project does not expect to use groundwater. Groundwater resources in the Eastern San Joaquin Groundwater Basin have not been adjudicated. Because the basin is not adjudicated and many private wells are drawing from the basin, typical annual yield or supply data is not available.
5.10.2 Regulatory Setting		
5.10.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding hydrologic and water quality.	5.10.2 Page 5.10-6	
5.10.3 Impact Questions		
5.10.3.1: Impact Questions. The impact questions include all hydrology and water quality impact questions in the current version of CEQA Guidelines, Appendix G. 5.10.3.2: Additional CEQA Impact Questions: None.	5.10.3 Page 5.10-9	
5.10.4 Impact Analysis		
5.10.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in the current version of CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.10.4 Page 5.10-10	
Include the following information in the impact analysis:		
5.10.4.2: Hydrostatic Testing. Identify all potential sources of hydrostatic test water, quantity of water required, withdrawal methods, treatment of discharge, and any waste products generated.	n/a	
5.10.4.3: Water Quality Impacts. Describe impacts to surface water quality, including the potential for accelerated soil erosion, downstream sedimentation, and reduced surface water quality.	5.10.4.4 Page 5.10-14	
5.10.4.4: Impermeable Surfaces. Describe increased run-off and impacts on groundwater	5.10.4.4 Page 5.10-17	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
recharge due to construction of impermeable surfaces. Provide the acreage of new impermeable surfaces that will be created as a result of the project.		
5.10.4.5: Waterbody Crossings. Identify by milepost all waterbody crossings. Provide the following information for crossing: a) Identify whether the waterbody has contaminated waters or sediments. b) Describe the waterbody crossing method and any approaches to avoid the waterbody. c) Describe typical additional work area and staging area requirements at waterbody and wetland crossings. d) Describe any dewatering or water diversion that will be required during construction near the waterbody. Identify treatment methods for any dewatering. e) Describe any proposed restoration methods for work near or within the waterbody.	5.10.4.4 Page 5.10-14	
5.10.4.6: Groundwater Impacts. If water would be obtained from groundwater supplies, evaluate the project's consistency with any applicable sustainable groundwater management plan.	5.10.4.4 Page 5.10-16	
5.11 Land Use and Planning	PEA Section and Page Number	
5.11.1 Environmental Setting		
5.11.1.1: Land Use. Provide a description of land uses within the area traversed by the project route as designated in the local General Plan (e.g., residential, commercial, agricultural, open space, etc.).	5.11.1.2 5.11.1.3 Page 5.11-1 Figure 5.11-1 Figure 5.11-2 Figure 5.11-3 Figure 5.11-4	
5.11.1.2: Special Land Uses. Identify by milepost and segment all special land uses within the project area including: a) All land administered by federal, state, or local agencies, or private conservation organizations b) Any designated coastal zone management areas	5.11.1.4 Page 5.11-5	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
c) Any designated or proposed candidate National or State Wild and Scenic Rivers crossed by the project d) Any national landmarks		
5.11.1.3: Habitat Conservation Plan. Provide a copy of any Habitat Conservation Plan applicable to the project area or proposed project. Also required for Section 5.4, Biological Resources.	5.11.1.5 Page 5.11-5	
5.11.2 Regulatory Setting		
5.11.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for land use and planning.	5.11.2 Page 5.11-6	
5.11.3 Impact Questions		
5.11.3.1: Impact Questions. The impact questions include all land use questions in the current version of CEQA Guidelines, Appendix G. 5.11.3.2: Additional CEQA Impact Questions: None.	5.11.3 Page 5.11-6	
5.11.4 Impact Analysis		
5.11.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.11.4 Page 5.11-7	
5.12 Mineral Resources	PEA Section and Page Number	
5.12.1 Environmental Setting		
5.12.1.1: Mineral Resources. Provide information on the following mineral resources within 0.5 mile of the proposed project area: a) Known mineral resources b) Active mining claims c) Active mines d) Resource recovery sites	5.12.1 Page 5.12-1	
5.12.2 Regulatory Setting		
5.12.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for minerals.	5.12.2 Page 5.12-1	
5.12.3 Impact Questions		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.12.3.1: Impact Questions. The impact questions include all mineral resource impact questions in the current version of CEQA Guidelines, Appendix G. 5.12.3.2: Additional CEQA Impact Questions: None.	5.12.3 Page 5.12-2	
5.12.4 Impact Analysis		
5.12.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.12.3 Page 5.12-4	
5.13 Noise	PEA Section and Page Number	
5.13.1 Environmental Setting		
5.13.1.1: Noise Sensitive Land Uses. Identify all noise sensitive land uses within 1,000 feet of the proposed project. Provide GIS data for sensitive receptors within 1,000 feet of the project.	5.13.1.2 Page 5.13-8 Figure 5.13-1	Figure 5.13-1 focuses on the area within the City of Lodi. Refer to Figure 5.3-1 for the entirely of the project alignment.
5.13.1.2: Noise Setting. Provide the existing noise levels (Lmax, Lmin, Leq, and Ldn sound level and other applicable noise parameters) at noise sensitive areas near the proposed project. All noise measurement data and the methodology for collecting the data will be provided in a noise study as an Appendix to the PEA.	5.13.1.2 Page 5.13-10 Figure 5.13-2	
5.13.2 Regulatory Setting		
5.13.2.1: Regulatory Setting. Identify applicable state, and local laws, policies, and standards for noise.	5.13.2 Page 5.13-11	
5.13.3 Impact Questions		
5.13.3.1 Impact Questions. The impact questions include all noise questions in the current version of CEQA Guidelines, Appendix G. 5.13.3.2: Additional CEQA Impact Questions: None.	5.13.3 Page 5.13-12	
5.13.4 Impact Analysis		
5.13.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource	5.13.4 Page 5.13-18	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
area and any additional impact questions listed above.		
Include the following information in the impact analysis:		
5.13.4.2: Noise Levels a) Identify noise levels for each piece of equipment that could be used during construction. b) Provide a table that identifies each phase of construction, the equipment used in each construction phase, and the length of each phase at any single location (see example in Error! Reference source not found. below). c) Estimate cumulative equipment noise levels for each phase of construction. d) Include phases of operation if noise levels during operation have the potential to frequently exceed pre-project existing conditions. e) Identify manufacturer's specifications for equipment and describe approaches to reduce impacts from noise.	Table 5.13-1 5.13.4.3 Page 5.13-22	The noise analysis makes conservative assumptions about the number and type of equipment that would be used at any given location to provide a conservative estimate of construction noise at any location.
For Natural Gas:		
5.13.4.3: Compressor Station Noise. Provide site plans of compressor stations or other noisy, permanent equipment, showing the location of the nearest noise sensitive areas within 1 mile of the proposed ROW. If new compressor station sites are proposed, measure or estimate the existing ambient sound environment based on current land uses and activities. For existing compressor stations (operated at full load), include the results of a sound level survey at the site property line and nearby noise-sensitive areas. Include a plot plan that identifies the locations and duration of noise measurements.	n/a	Compressor station not a component of the proposed project.
5.14 Population and Housing	PEA Section and Page Number	
5.14.1 Environmental Setting		
5.14.1.1: Population Estimates. Identify population trends for the areas (county, city,	5.14.1 Page 5.14-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
town, census designated place) where the project would take place.		
5.14.1.2: Housing Estimates. Identify housing estimates and projections in areas where the project would take place.	5.14.1.2 Page 5.14-1	
5.14.1.3: Approved Housing Developments a) Provide the following information for all housing development projects within 1 mile of the proposed project that have been recently approved or may be approved around the PEA and application filing date: i. Project name ii. Location iii. Number of units and estimated population increase iv. Approval date and construction status v. Contact information for developer (provided in the public outreach Appendix) b) Ensure that the project information provided above is consistent with the PEA analysis of cumulative project impacts.	None 5.14.1.2 Page 5.14-2	There are no approved housing developments within approximately 1 mile of the project, including both PG&E and LEU portions of the project.
5.14.2 Regulatory Setting		
5.14.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations that apply to the project.	5.14.2 Page 5.14-2	
5.14.3 Impact Questions		
5.14.3.1: Impact Questions. The impact questions include all population and housing impact questions in the current version of CEQA Guidelines, Appendix G. 5.14.3.2: Additional CEQA Impact Questions: None.	5.14.3 Page 5.14-2	
5.14.4 Impact Analysis		
5.14.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.14.4 Page 5.14-2	
Include the following information in the impact analysis:		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.14.4.2: Impacts to Housing. Identify if any existing or proposed homes occur within the footprint of any proposed project elements or right-of-way. Describe housing impacts (e.g., demolition and relocation of residents) that may occur as a result of the proposed project.	5.14.4.3 Page 5.14-3	
5.14.4.3: Workforce Impacts. Describe on-site manpower requirements, including the number of construction personnel who currently reside within the impact area, who would commute daily to the site from outside the impact area or would relocate temporarily within the impact area. Chapter 4 of this document can be referenced as applicable. Identify any permanent employment opportunities that would be create by the project and the workforce conditions in the area that the jobs would be created.	5.14.4.3 Page 5.14-3	
5.14.4.4: Population Growth Inducing. Provide information on the project's growth inducing impacts, if any. The information will include, but is not necessarily limited to, the following: a) Any economic or population growth in the surrounding environment that will directly or indirectly result from the project b) Any obstacles to population growth that the project would remove c) Any other activities directly or indirectly encouraged or facilitated by the project that would cause population growth leading to a significant effect on the environment, either individually or cumulatively	5.14.4.3 Page 5.14-3	
5.15 Public Services	PEA Section and Page Number	
5.15.1 Environmental Setting		
5.15.1.1 Service Providers a) Identify the following service providers that serve the project area and provide a map showing the service facilities that could serve the project: i. Police ii. Fire (identify service providers within local and state responsibility areas)	5.15.1.1 Page 5.15-1 Figure 5.15-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
iii. Schools iv. Parks v. Hospitals b) Provide the documented performance objectives and data on existing emergency response times for service providers in the area (e.g., police or fire department response times).		
5.15.2 Regulatory Setting		
5.15.2.1 Regulatory Setting. Identify any applicable federal, state or local laws or regulations for public services that apply to the project.	5.15.2 Page 5.15-3	
5.15.3 Impact Questions		
5.15.3.1: Impact Questions. The impact questions include all public services impact questions in the current version of CEQA Guidelines, Appendix G. 5.15.3.2: Additional CEQA Impact Questions: None.	5.15.3 Page 5.15-4	
5.15.4 Impact Analysis		
5.15.4.1 Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.15.4 Page 5.15-4	
Include the following information in the impact analysis:		
5.15.4.2: Emergency Response Times a) Describe whether the project would impede ingress and egress of emergency vehicles during construction and operation. b) Include an analysis of impacts on emergency response times during project construction and operation, including impacts during any temporary road closures. Describe approaches to address impacts on emergency response times.	5.15.4.3 Page 5.15-5	
5.15.4.3: Displaced Population. If the project would create permanent employment or displace people, evaluate the impact of the new employment or relocated people on	n/a	The project would not create permanent employment or displace people.

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
governmental facilities and services and describe plans to reduce the impact on public services.		
5.16 Recreation	PEA Section and Page Number	
5.16.1 Environmental Setting		
5.16.1.1: Recreational Setting a) Describe the regional and local recreation setting in the project area including: i. Any recreational facilities or areas within and surrounding the project area (approximately 0.5-mile buffer) including the recreational uses of each facility or area ii. Any available data on use of the recreational facilities including volume of use b) Provide a map (or maps) showing project features and recreational facilities and provide associated GIS data.	5.16.1 Page 5.16-1 Figure 5.16-1	
5.16.2 Regulatory Setting		
5.16.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding recreation.	5.16.2 Page 5.16-2	
5.16.3 Impact Questions		
5.16.3.1: Impact Questions. The impact questions include all recreation impact questions in the current version of CEQA Guidelines, Appendix G. 5.16.3.2: Additional CEQA Impact Questions: a) Would the project reduce or prevent access to a designated recreation facility or area? b) Would the project substantially change the character of a recreational area by reducing the scenic, biological, cultural, geologic, or other important characteristics that contribute to the value of recreational facilities or areas? c) Would the project damage recreational trails or facilities?	5.16.3 Page 5.16-2	
5.16.4 Impact Analysis		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.16.4.1: Impact Analysis: Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.16.4 Page 5.16-3	
5.16.4.2: Impact Details. Clearly identify the maximum extent of each impact, and when and where the impacts would or would not occur. Organize the impact assessment by project phase, project component, and/or geographic area, as necessary.	5.16.4.4 Page 5.16-5	
5.17 Transportation	PEA Section and Page Number	
5.17.1 Environmental Setting		
5.17.1.1: Circulation System. Briefly describe the regional and local circulation system in the project area, including modes of transportation, types of roadways, and other facilities that contribute to the circulation system.	5.17.1.1 Page 5.17-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.17.1.2: Existing Roadways and Circulation a) Identify and describe existing roadways that may be used to access the project site and transport materials during construction or are otherwise adjacent to or crossed by linear project features. Provide the following information for each road: i. Name of the road ii. Jurisdiction or ownership (i.e., State, County, City, private, etc.) iii. Number of lanes in both directions of travel iv. Existing traffic volume (if publicly available data is unavailable or significantly outdated, then it may be necessary to collect existing traffic counts for road segments where large volumes of construction traffic would be routed or where lane or road closures would occur) v. Closest project feature name and distance Provide a supporting map (or maps) showing project features and the existing roadway network identifying each road described above. Provide associated GIS data. The GIS data should include all connected road segments within at least 5 miles of the project.	5.17.1.2 Page 5.17-1 Figure 5.17-1	
5.17.1.3: Transit and Rail Services a) Identify and describe transit and rail service providers in the region. b) Identify any rail or transit lines within 1,000 feet of the project area. c) Identify specific transit stops, and stations within 0.5 mile of the project. Provide the frequency of transit service. Provide a supporting map (or maps) showing project features and transit and rail services within 0.5 mile of the project area. Provide associated GIS data.	5.17.1.3 Page 5.17-4 Figure 5.17-2 Figure 5.17-3	
5.17.1.4: Bicycle Facilities a) Identify and describe any bicycle plans for the region.	5.17.1.4 Page 5.17-4	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
b) Identify specific bicycle facilities within 1,000 feet of the project area. Provide a supporting map (or maps) showing project features and bicycle facilities. Provide associated GIS data.	Figure 5.17-2 Figure 5.17-3	
5.17.1.5: Pedestrian Facilities a) Identify and describe important pedestrian facilities near the project area that contribute to the circulation system, such as important walkways. b) Identify specific pedestrian facilities that would be near the project, including on the road segments identified per 5.17.1.2. Provide a supporting map (or maps) showing project features and important pedestrian facilities. Provide associated GIS data.	5.17.1.5 Page 5.17-5	
5.17.1.6: Vehicle Miles Traveled (VMT). Provide the average VMT for the county(s) where the project is located.	Not available	
5.17.2 Regulatory Setting		
5.17.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding transportation.	5.17.2 Page 5.17-5	
5.17.3 Impact Questions		
5.17.3.1: Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. 5.17.3.2: Additional CEQA Impact Questions: a) Would the project create potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations? b) Would the project interfere with walking or bicycling accessibility? Would the project substantially delay public transit?	5.17.3 Page 5.17-6	
5.17.4 Impact Analysis		
5.17.4.1: Impact Analysis. Provide an impact analysis for each significance criteria identified in Appendix G of the CEQA Guidelines for transportation and any additional impact questions listed above.	5.17.4 Page 5.17-7	
Include the following information in the impact analysis:		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.17.4.2: Vehicle Miles Traveled (VMT) a) Identify whether the project is within 0.5 mile of a major transit stop or a high-quality transit corridor. b) Identify the number of vehicle daily trips that would be generated by the project during construction and operation by light duty (e.g., worker vehicles) and heavy-duty vehicles (e.g., trucks). Provide the frequency of trip generation during operation. c) Quantify VMT generation for both project construction and operation. d) Provide an excel file with the VMT assumptions and model calculations, including all formulas and values. e) Evaluate the project VMT relative to the average VMT for the area in which the project is located.	5.17.4.3 Page 5.17-10 Table 5.17-4	Noted
5.17.4.3: Traffic Impact Analysis. Provide a traffic impact study. The traffic impact study should be prepared in accordance with guidance from the relevant local jurisdiction or Caltrans, where appropriate.	5.17.4.3 Page 5.17-12	Qualitative analysis being utilized. No traffic impact study occurred.
5.17.4.4: Hazards. Identify any traffic hazards that could result from construction and operation of the project. Identify any lane closures and traffic management that would be required to construct the project.	5.17.4.3 Page 5.17-15 5.17.4.4 Page 5.17-16	
5.17.4.5: Accessibility. Identify any closures of bicycle lanes, pedestrian walkways, or transit stops during construction or operation of the project.	5.17.4.3 Page 5.17-12	
5.17.4.6: Transit Delay. Identify any transit lines that could be delayed by construction and operation of the project. Provide the maximum extent of the delay in minutes and the duration of the delay.	5.17.4.4 Page 5.17-17	
5.18 Tribal Cultural Resources	PEA Section and Page Number	
5.18.1 Environmental Setting		

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.18.1.1: Outreach to Tribes. Provide a list of all tribes that are on the Native American Heritage Commission (NAHC) list of tribes that are affiliated with the project area. Provide a discussion of outreach to Native American tribes, including tribes notified, responses received from tribes, and information of potential tribal cultural resources provided by tribes. Any information of potential locations of tribal cultural resources should be submitted in an Appendix under clearly marked confidential cover. Provide copies of all correspondence with tribes in an Appendix.	Table 5.18-1 Page 5.18-2 Appendix D4	Refer to Appendix D4 for correspondence.
5.18.1.2: Tribal Cultural Resources. Describe tribal cultural resources (TCRs) that are within the project area. f) Summarize the results of attempts to identify possible TCRs using publicly available documentary resources. The identification of TCRs using documentary sources should include review of archaeological site records and should begin during the preparation of the records search report (see Attachment 3). During the inventory phase, a formal site record would be prepared for any resource identified unless tribes object. g) Summarize attempts to identify TCRs by speaking directly with tribal representatives.	5.18.1.2 Page 5.18-3	
5.18.1.3: Ethnographic Study. The ethnographic study should document the history of Native American use of the area and oral history of the area.	None	Study is not included. Native American stakeholders have not indicated a need for an ethnography to be produced.
5.18.2 Regulatory Setting		
5.18.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations for tribal cultural resources that apply to the project.	5.18.2 Page 5.18-5	
5.18.3 Impact Questions		
5.18.3.1: Impact Questions. The impact questions include all tribal cultural resources impact questions in the current version of CEQA Guidelines, Appendix G.	5.18.3 Page 5.18-6	To be completed under AB 52 by the CPUC

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.18.3.2: Additional CEQA Impact Questions: None.		
5.18.4 Impact Analysis		
5.18.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.18.4 Page 5.18-6	No tribal resources have been identified ahead of the AB 52 process and there is an inadvertent discovery clause in APM TRC-1 and in BMP TRC-1.
Include the following information in the impact analysis:		
5.18.4.2: Information Provided by Tribes. Include an analysis of any impacts that were identified by the tribes during the Applicant's outreach.	5.18.4.4 Page 5.18-8 TBD	To be completed under AB 52 by the CPUC. No tribal resources have been identified ahead of the AB 52 process.
5.19: Utilities and Service Systems	PEA Section and Page Number	
5.19.1 Environmental Setting		
5.19.1.1: Utility Providers. Identify existing utility providers and the associated infrastructure that serves the project area.	5.19.1.2 Page 5.19-1	
5.19.1.2: Utility Lines. Describe existing utility infrastructure (e.g., water, gas, sewer, electrical, stormwater, telecommunications, etc.) that occurs in the project ROW. Provide GIS data and/or as-built engineering drawings to support the description of existing utilities and their locations.	5.19.1.3 Page 5.19-3 Figure 5.19-1	
5.19.1.3: Approved Utility Projects. Identify utility projects that have been approved for construction within the project ROW but that have not yet been constructed.	5.19.1.4 Page 5.19-3	
5.19.1.4: Water Supplies. Identify water suppliers and the water source (e.g., aqueduct, well, recycled water, etc.). For each potential water supplier, provide data on the existing water capacity, supply, and demand.	5.19.1.5 Page 5.19-4	
5.19.1.5: Landfills and Recycling. Identify local landfills that can accept construction waste and may service the project. Provide documentation of landfill capacity and estimated closure date.	5.19.1.6 Page 5.19-4 Table 5.19-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
Identify any recycling centers in the area and opportunities for construction and demolition waste recycling.		
5.19.2 Regulatory Setting		
5.19.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations for utilities that apply to the project.	5.19.2 Page 5.19-5	
5.19.3 Impact Questions		
5.19.3.1: Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. 5.19.3.2: Additional CEQA Impact Question: Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?	5.19-3 Page 5.19-6	
5.19.4 Impact Analysis		
5.19.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.19.4 Page 5.19-7	
Include the following information in the impact analysis:		
5.19.4.2: Utility Relocation. Identify any project conflicts with existing utility lines. If the project may require relocation of existing utilities, identify potential relocation areas and analyze the impacts of relocating the utilities. Provide a map showing the relocated utility lines and GIS data for all relocations.	5.19.4.3 Page 5.19-8	
5.19.4.3: Waste a) Identify the waste generated by construction, operation, and demolition of the project. b) Describe how treated wood poles would be disposed of after removal, if applicable. c) Provide estimates for the total amount of waste materials to be generated by waste type and how much of it would be disposed of, reused, or recycled.	5.19.4.3 Page 5.19-10, -11	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.19.4.4: Water Supply a) Estimate the amount of water required for project construction and operation. Provide the potential water supply source(s). b) Evaluate the ability of the water supplier to meet the project demand under a multiple dry year scenario. c) Provide a discussion as to whether the proposed project meets the criteria for consideration as a project subject to Water Supply Assessment Requirements under Water Code Section 10912. d) If determined to be necessary under Water Code Section 10912, submit a Water Supply Assessment to support conclusions that the proposed water source can meet the project's anticipated water demand, even in multiple dry year scenarios. Water Supply Assessments should be approved by the water supplier and consider normal, single-dry, and multiple-dry year conditions.	5.19.4.3 Page 5.19-7 Page 5.19-12	A water supply assessment is not required for the project type and expected water use. Refer to discussion beginning on page 5.19-12.
5.19.4.5: Cathodic Protection. Analyze the potential for existing utilities to experience corrosion due to proximity to the proposed project. Identify cathodic protection measures that could be implemented to reduce corrosion issues and where the measures may be applied.	5.19.4.4 Page 5.19-12	
5.20 Wildfire	PEA Section and Page Number	
5.20.1 Environmental Setting		
5.20.1.1: High Fire Risk Areas and State Responsibility Areas a) Identify areas of high fire risk or State Responsibility Areas (SRAs) within the project area. Provide GIS data for the Wildland Urban Interface (WUI) and Fire Hazard Severity Zones (FHSZ) mapping along the project alignment. Include areas mapped by CPUC as moderate and high fire threat districts as well as areas mapped by CalFire.	5.20.1.1 Page 5.20-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
b) Identify any areas the utility has independently identified as High FHSZ known to occur within the proposed project vicinity.		
5.20.1.2: Fire Occurrence. Identify all recent (within the last 10 years) large fires that have occurred within the project vicinity. For each fire, identify the following: a) Name of the fire b) Location of fire c) Ignition source and location of ignition d) Amount of land burned Boundary of fire area in GIS	5.20.1.2 Page 5.20-2	
5.20.1.3: Fire Risk. Provide the following information for assessment of baseline fire risk in the area: a) Provide fuel modeling using Scott Burgan fuel models, or other model of similar quality. b) Provide values of wind direction and speed, relative humidity, and temperature for representative weather stations along the alignment for the previous 10 years, gathered hourly. c) Digital elevation models for the topography in the project region showing the relationship between terrain and wind patterns, as well as localized topography to show the effects of terrain on wind flow, and on a more local area to show effect of slope on fire spread. d) Describe vegetation fuels within the project vicinity and provide data in map format for the project vicinity. USDA Fire Effects Information System or similar data source should be consulted to determine high-risk vegetation types. Provide the mapped vegetation fuels data in GIS format.	5.20.1.3 Page 5.20-2	The project is in an area of low fire risk and does not require modeling to determine significance of potential impacts.
5.20.1.4: Values at Risk. Identify values at risk along the proposed alignment. Values at risk may include: Structures, improvements, rare habitat, other values at risk, (including utility-owned infrastructure) within 1000 feet of the project.	5.20.1.4 Page 5.20-4 Figure 5.20-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
Provide some indication as to its vulnerability (wood structures vs. all steel features). Communities and/or populations near the project should be identified with their proximity to the project defined.		
5.20.1.5: Evacuation Routes. Identify all evacuation routes that are adjacent to or within the project area. Identify any roads that lack a secondary point of access or exit (e.g., cul-de-sacs).	5.20.1.5 Page 5.20-6	The evacuation routes listed all have multiple points of access.
5.20.2: Regulatory Setting		
5.20.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for wildfire.	5.20.2 Page 5.20-8	
5.20.2.2: CPUC Standards. Identify any CPUC standards that apply to wildfire management of the new facilities.	5.20.2 Page 5.20-9	
5.20.3 Impact Questions		
5.20.3.1: Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. 5.20.3.2: Additional CEQA Impact Questions: None.	5.20.3 Page 5.20-10	
5.20.4 Impact Analysis		
5.20.4.1: Impact Analysis. Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.20.3 Page 5.20-11	
Include the following information in the impact analysis:		
5.20.4.2: Fire Behavior Modeling. For any new electrical lines, provide modeling to support the analysis of wildfire risk.	5.20.1.6 Page 5.20-7	The project is in an area of low fire risk and does not require modeling to determine significance of potential impacts.
5.20.4.3: Wildfire Management. Describe approaches that would be implemented during operation and maintenance to manage wildfire risk in the area. Provide a copy of any Wildfire Management Plan.	5.20.1.6 Page 5.20-7	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
5.21 Mandatory Findings of Significance	PEA Section and Page Number	
5.21.1: Impact Assessment for Mandatory Findings of Significance. Provide an impact analysis for each of the mandatory findings of significance provided in Appendix G of the CEQA Guidelines. The impact analysis can reference relevant information and conclusion from the biological resources, cultural resources, air quality, hazards, and cumulative sections of the PEA, where applicable.	5.21.1 Page 5.21-1	
6 Comparison of Alternatives	PEA Section and Page Number	
6.1: Alternatives Comparison a) Compare the ability of each alternative described in Chapter 4 against the proposed project in terms of its ability to avoid or reduce a potentially significant impact. The alternatives addressed in this section will each be: i. Potentially feasible ii. Meet the underlying purpose of the proposed project iii. Meet most of the basic project objectives, and iv. Avoid or reduce one or more potentially significant impacts. b) The relative effect of the various potentially significant impacts may be compared using the following or similar descriptors and an accompanying analysis: i. Short-term versus long-term impacts ii. Localized versus widespread impacts iii. Ability to fully mitigate impacts c) Impacts that the Applicant believes would be less than significant with mitigation may also be included in the analysis, but only if the steps listed above fail to distinguish among the remaining few alternatives.	6.1 Page 6-1 Table 6.1-1 Table 6.1-2 Table 6.1-3 Table 6.1-4 Table 6.1-5	
6.2: Alternatives Ranking. Provide a detailed table that summarizes the Applicant's	6.2 Page 6-16	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
comparison results and ranks the alternatives in order of environmental superiority.	Table 6.2-1	
7 Cumulative and Other CEQA Considerations	PEA Section and Page Number	
7.1 Cumulative Impacts		
7.1.1: List of Cumulative Projects a) Provide a detailed table listing past, present, and reasonably foreseeable future projects within and surrounding the project area (approximately 2-mile buffer). The following information should be provided for each project in the table: i. Project name and type ii. Brief description of the project location(s) and associated actions iii. Distance to and name of the nearest project component iv. Project status and anticipated construction schedule v. Source of the project information and date last checked (for each individual project), including links to any public websites where the information was obtained so it can be reviewed and updated (the project information should be current when the PEA is filed) b) Provide a supporting map (or maps) showing project features and cumulative project locations and/or linear features. Provide associated GIS data.	7.1.1 Page 7-1 Table 7.1-1 Figure 7.1-1	
7.1.2: Geographic Scope. Define the geographic scope of analysis for each resource topic. The geographic scope of analysis for each resource topic should consider the extent to which impacts can be cumulative. For example, the geographic scope for cumulative noise impacts would be more limited in scale than the geographic scope for biological resource impacts because noise attenuates rapidly with distance. Explain why the geographic scope is appropriate for each resource.	7.1.1 Table 7.1-2 Page 7-5	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
7.1.3: Cumulative Impact Analysis. Provide an analysis of cumulative impacts for each resource topic included in Chapter 5. Evaluate whether the proposed project impacts are cumulatively considerable for any significant cumulative impacts.	7.1.2 Page 7-6	
7.2 Growth-Inducing Impacts		
7.2.1: Growth-Inducing Impacts. Provide an evaluation of the following potential growth-inducing impacts: a) Would the proposed project foster any economic or population growth, either directly or indirectly, in the surrounding environment? b) Would the proposed project cause any increase in population that could further tax existing community service facilities (i.e., schools, hospitals, fire, police, etc.)? c) Would the proposed project remove any obstacles to population growth? d) Would the proposed project encourage and facilitate other activities that would cause population growth that could significantly affect the environment, either individually or cumulatively?	7.2 Page 7-20	
8 List of Preparers	PEA Section and Page Number	
8.1: List of Preparers. Provide a list of persons, their organizations, and their qualifications for all authors and reviewers of each section of the PEA.	8 8-1	
9 References	PEA Section and Page Number	
9.1: Reference List a) Organize all references cited in the PEA by section within a single chapter called "References." b) Within the References chapter, organize all of the Chapter 5 references under subheadings for each resource area section.	9 9-1	

Chapter or Section	PEA Section and Page Number	Applicant Notes, Comments
9.2: Electronic References a) Provide complete electronic copies of all references cited in the PEA that cannot be readily obtained for free on the Internet. This includes any company-specific documentation (e.g., standards, policies, and other documents). b) If the reference can be obtained on the Internet, the Internet address will be provided.	9 9-1	

Appendix 3A
EMF Discussion

Electric and Magnetic Fields (EMF) Discussion

The California Public Utilities Commission (CPUC) and the California Department of Health Services (CDHS) have not concluded that exposure to magnetic fields from utility electric facilities is a health hazard. Many reports have concluded that the potential for health effects associated with electric and magnetic field (EMF) exposure is too speculative to allow the evaluation of impacts or the preparation of mitigation measures.

EMF is a term used to describe electric and magnetic fields that are created by electric voltage (electric field) and electric current (magnetic field). Power frequency EMF is a natural consequence of electrical circuits, and can be either directly measured using the appropriate measuring instruments or calculated using appropriate information.

Electric Fields

Electric fields are present whenever voltage exists on a wire, and are not dependent on current. The magnitude of the electric field is primarily a function of the configuration and operating voltage of the line and decreases with the distance from the source (line). The electric field can be shielded (i.e., the strength can be reduced) by any conducting surface, such as trees, fences, walls, buildings, and most types of structures. The strength of an electric field is measured in volts per meter (V/m) or kilovolts per meter (kV/m).

Magnetic Fields

Magnetic fields are present whenever current flows in a conductor, and are not dependent on the voltage present on the conductor. The strength of these fields also decreases with distance from the source. However, unlike electric fields, most common materials have little shielding effect on magnetic fields.

The magnetic field strength is a function of both the current on the conductor and the design of the system. Magnetic fields are measured in units called Gauss. However, for the low levels normally encountered near power systems, the field strength is expressed in a much smaller unit, the milligauss (mG), which is one thousandth of a Gauss.

Power frequency EMF is present where electricity is used. This includes not only utility transmission lines, distribution lines, and substations, but also the building wiring in homes, offices, and schools, and in the appliances and machinery used in these locations. Typical magnetic fields from these sources can range from below 1 mG to above 1,000 mG (1 Gauss).

Magnetic field strengths diminish with distance. Fields from compact sources (i.e., those containing coils such as small appliances and transformers) decrease in inverse proportion to the distance from the source cubed. For three-phase power lines with balanced currents, the magnetic field strength drops off inversely proportional to the distance from the line squared. Fields from unbalanced currents, which flow in paths such as neutral or ground conductors, fall off inversely proportional to the distance from the source. Conductor spacing and configuration also affect the rate at which the magnetic field strength decreases.

The magnetic field levels of PG&E's overhead and underground transmission lines will vary depending upon customer power usage. Magnetic field strengths for typical PG&E transmission line loadings at the edge of rights-of-way are approximately 10 to 90 mG. Under peak load

conditions, the magnetic fields at the edge of the right-of-way would not likely exceed 150 mG. There are no long-term, health-based state or federal government EMF exposure standards. State regulations for magnetic fields have been developed in New York and Florida (150 mG and 200 mG at the edge of the right-of-way). However, these are based on limiting exposure from new facilities to levels no greater than existing facilities.

The strongest magnetic fields around the outside of a substation come from the power lines entering and leaving the station. The strength of the magnetic fields from transformers and other equipment decreases quickly with distance. Beyond the substation fence, the magnetic fields produced by the equipment within the station are typically indistinguishable from background levels.

Possible Health Effects

The possible effects of EMF on human health have come under scientific scrutiny. Concern about EMF originally focused on electric fields; however, much of the recent research has focused on magnetic fields. Uncertainty exists as to what characteristics of magnetic field exposure need to be considered to assess human exposure effects. Among the characteristics considered are field intensity, transients, harmonics, and changes in intensity over time. These characteristics may vary from power lines to appliances to home wiring, and this may create different types of exposures. The exposure most often considered is intensity or magnitude of the field.

There is a consensus among the medical and scientific communities that there is insufficient evidence to conclude that EMF causes adverse health effects. Neither the medical nor scientific communities have been able to provide any foundation upon which regulatory bodies could establish a standard or level of exposure that is known to be either safe or harmful. Laboratory experiments have shown that magnetic fields can cause biologic changes in living cells, but scientists are not sure whether any risk to human health can be associated with them. Some studies have suggested an association between surrogate measures of magnetic fields and certain cancers while others have not.

California Public Utilities Commission Decision Summary

Background

On January 15, 1991, the CPUC initiated an investigation to consider its role in mitigating the health effects, if any, of electric and magnetic fields from utility facilities and power lines. A working group of interested parties, called the California EMF Consensus Group, was created by the CPUC to advise it on this issue. It consisted of 17 stakeholders representing citizens groups, consumer groups, environmental groups, state agencies, unions, and utilities. The Consensus Group's fact-finding process was open to the public, and its report incorporated concerns expressed by the public. Its recommendations were filed with the Commission in March 1992.

In August 2004 the CPUC began a proceeding known as a “rulemaking” (R.04-08-020) to explore whether changes should be made to existing CPUC policies and rules concerning EMF from electric transmission lines and other utility facilities.

Through a series of hearings and conferences, the Commission evaluated the results of its existing EMF mitigation policies and addressed possible improvements in implementation of these policies. The CPUC also explored whether new policies are warranted in light of recent scientific findings on the possible health effects of EMF exposure.

The CPUC completed the EMF rulemaking in January 2006 and presented these conclusions in Decision D.06-01-042:

- The CPUC affirmed its existing policy of requiring no-cost and low-cost mitigation measures to reduce EMF levels from new utility transmission lines and substation projects.
- The CPUC adopted rules and policies to improve utility design guidelines for reducing EMF, and provides for a utility workshop to implement these policies and standardize design guidelines.
- Despite numerous studies, including one ordered by the Commission and conducted by the California Department of Health Services, the CPUC stated "we are unable to determine whether there is a significant scientifically verifiable relationship between EMF exposure and negative health consequences."
- The CPUC said it will "remain vigilant" regarding new scientific studies on EMF, and if these studies indicate negative EMF health impacts, the Commission will reconsider its EMF policies and open a new rulemaking if necessary.

In response to a situation of scientific uncertainty and public concern, the decision specifically requires PG&E to consider "no-cost" and "low-cost" measures, where feasible, to reduce exposure from new or upgraded utility facilities. It directs that no-cost mitigation measures be undertaken, and that low-cost options, when they meet certain guidelines for field reduction and cost, be adopted through the project certification process. PG&E was directed to develop, submit and follow EMF guidelines to implement the CPUC decision. Four percent of total project budgeted cost is the benchmark in implementing EMF mitigation, and mitigation measures should achieve incremental magnetic field reductions of at least 15%.

Reviews of EMF Studies

Hundreds of EMF studies have been conducted over the last 20 years in the areas of epidemiology, animal research, cellular studies, and exposure assessment. A number of nationally recognized multi-discipline panels have performed comprehensive reviews of the body of scientific knowledge on EMF. These panels' ability to bring experts from a variety of disciplines together to review the research gives their reports recognized credibility. It is standard practice in risk assessment and policymaking to rely on the findings and consensus opinions of these distinguished panels. None of these groups have concluded that EMF causes adverse health effects or that the development of standards were appropriate or would have a scientific basis.

Reports by the National Research Council/National Academy of Sciences, American Medical Association, American Cancer Society, National Institute of Environmental Health Sciences, World Health Organization, International Agency for Research on Cancer, and California Department of Health Services conclude that insufficient scientific evidence exists to warrant the adoption of specific health-based EMF mitigation measures. The potential for adverse health effects associated with EMF exposure is too speculative to allow the evaluation of impacts or the preparation of mitigation measures.

National Institute of Environmental Health Sciences

In June of 1999, the federal government completed a $60-million EMF research program managed by the National Institute of Environmental Health Sciences (NIEHS) and the

Department of Energy (DOE). Known as the EMF RAPID (Research And Public Information Dissemination) Program. In their report to the U.S. Congress, the NIEHS concluded that:

> *The NIEHS believes that the probability that ELF-EMF exposure is truly a health hazard is currently small. The weak epidemiological associations and lack of any laboratory support for these associations provide only marginal, scientific support that exposure to this agent is causing any degree of harm.*

The NIEHS report also included the following conclusions:

> *The National Toxicology Program routinely examines environmental exposures to determine the degree to which they constitute a human cancer risk and produces the 'Report on Carcinogens' listing agents that are 'known human carcinogens' or 'reasonably anticipated to be human carcinogens.' It is our opinion that based on evidence to date, ELF-EMF exposure would not be listed in the 'Report on Carcinogens' as an agent 'reasonably anticipated to be a human carcinogen.' This is based on the limited epidemiological evidence and the findings from the EMF-RAPID Program that did not indicate an effect of ELF-EMF exposure in experimental animals or a mechanistic basis for carcinogenicity.*
>
> *The NIEHS agrees that the associations reported for childhood leukemia and adult chronic lymphocytic leukemia cannot be dismissed easily as random or negative findings. The lack of positive findings in animals or in mechanistic studies weakens the belief that this association is actually due to ELF-EMF, but cannot completely discount the finding. The NIEHS also agrees with the conclusion that no other cancers or non-cancer health outcomes provide sufficient evidence of a risk to warrant concern.*
>
> *Epidemiological studies have serious limitations in their ability to demonstrate a cause and effect relationship whereas laboratory studies, by design, can clearly show that cause and effect are possible. Virtually all of the laboratory evidence in animals and humans and most of the mechanistic work done in cells fail to support a causal relationship between exposure to ELF-EMF at environmental levels and changes in biological function or disease status. The lack of consistent, positive findings in animal or mechanistic studies weakens the belief that this association is actually due to ELF-EMF, but it cannot completely discount the epidemiological findings.*
>
> *The NIEHS suggests that the level and strength of evidence supporting ELF-EMF exposure as a human health hazard are insufficient to warrant aggressive regulatory actions; thus, we do not recommend actions such as stringent standards on electric appliances and a national program to bury all transmission and distribution lines. Instead, the evidence suggests passive measures such as a continued emphasis on educating both the public and the regulated community on means aimed at reducing exposures. NIEHS suggests that the power industry continue its current practice of siting power lines to reduce exposures and continue to explore ways to reduce the creation of magnetic fields around transmission and distribution lines without creating new hazards. We also encourage technologies that lower exposures from neighborhood distribution lines provided that they do not increase other risks, such as those from accidental electrocution or fire.*

U.S. National Research Council/National Academy of Sciences

In May 1999, the National Research Council/ National Academy of Sciences, an independent scientific agency responsible for advising the federal government on science, technology, and medicine, released its evaluation of the scientific and technical content of research projects conducted under the U.S. EMF RAPID Program, concluding that:

> *The results of the EMF-RAPID program do not support the contention that the use of electricity poses a major unrecognized public-health danger. Basic research on the effects of power-frequency magnetic fields on cells and animals should continue, but a special research-funding effort is not required. Investigators should compete for funding through traditional research-funding mechanisms. If future research on this subject is funded through such mechanisms, it should be limited to tests of well-defined mechanistic hypotheses or replications of reported positive effects. If carefully performed, such experiments will have value even if their results are negative. Special efforts should be made to communicate the conclusions of this effort to the general public effectively.*

The following specific recommendations are made by the committee:

1. The committee recommends that no further special research program focused on possible health effects of power-frequency magnetic fields be funded. Basic research on the effects of power-frequency magnetic fields on cells and animals should continue but investigators should compete for funding through traditional research funding mechanisms.
2. If, however, Congress determines that another time-limited, focused research program on the health effects of power-frequency magnetic fields is warranted, the committee recommends that emphasis be placed on replications of studies that have yielded scientifically promising claims of effects and that have been reported in peer-reviewed journals. Such a program would benefit from the use of a contract-funding mechanism with a requirement for complete reports and/or peer-reviewed publications at program's end.
3. The engineering studies were initiated without the guidance of a clearly established biologic effect. The committee recommends that no further engineering studies be funded unless a biologic effect that can be used to plan the engineering studies has been determined.
4. Much of the information from the EMF-RAPID biology program has not been published in peer-reviewed journals. NIEHS should collect all future peer-reviewed information resulting from the EMF-RAPID biology projects and publish a summary report of such information periodically on the NIEHS Web site.
5. The communication effort initiated by EMF-RAPID is reasonable. The two booklets and the telephone information line are useful, as is the EMF-RAPID Internet site. There are two limitations to the effort. First, it is largely passive, responding to inquiries and providing information, rather than being active. Second, much of the information produced is in a scientific format not readily understandable by the public. The committee recommends that further material produced to disseminate information on power-frequency magnetic fields be written for the general public in a clear fashion. The Web site should be made more user-friendly. The booklet *Questions and Answers about EMF* should be updated periodically and made available to the public.

World Health Organization

The World Health Organization (WHO) established the International EMF Project in 1996 to investigate potential health risks associated with exposure to electric and magnetic fields (EMF). A WHO Task Group recently concluded a review of the health implications of extremely low frequency (ELF) EMF.

A Task Group of scientific experts was convened in 2005 to assess any risks to health that might exist from exposure to ELF electric and magnetic fields. Previously in 2002, the International Agency for Research on Cancer (IARC) examined the evidence regarding cancer; this Task Group reviewed evidence for a number of health effects, and updated the evidence regarding cancer. The conclusions and recommendations of the Task Group are presented in a WHO report titled: "Extremely Low Frequency Fields Environmental Health Criteria Monograph No.238" and Factsheet No 322.

> *"New human, animal and in vitro studies, published since the 2002 IARC monograph, do not change the overall classification of ELF magnetic fields as a possible human carcinogen."*
>
> *"A number of other diseases have been investigated for possible association with ELF magnetic field exposure. These include cancers in both children and adults, depression, suicide, reproductive dysfunction, developmental disorders, immunological modifications and neurological disease. The scientific evidence supporting a linkage between ELF magnetic fields and any of these diseases is much weaker than for childhood leukaemia and in some cases (for example, for cardiovascular disease or breast cancer) the evidence is sufficient to give confidence that magnetic fields do not cause the disease."*
>
> *"the epidemiological evidence is weakened by methodological problems, such as potential selection bias. In addition, there are no accepted biophysical mechanisms that would suggest that low-level exposures are involved in cancer development. Thus, if there were any effects from exposures to these low-level fields, it would have to be through a biological mechanism that is as yet unknown. Additionally, animal studies have been largely negative. Thus, on balance, the evidence related to childhood leukaemia is not strong enough to be considered causal."*
>
> *"Policy-makers should establish an ELF EMF protection programme that includes measurements of fields from all sources to ensure that the exposure limits are not exceeded either for the general public or workers."*
>
> *"Government and industry should monitor science and promote research programmes to further reduce the uncertainty of the scientific evidence on the health effects of ELF field exposure."*
>
> *"Policy-makers, community planners and manufacturers should implement very low-cost measures when constructing new facilities and designing new equipment including appliances."*
>
> *"Changes to engineering practice to reduce ELF exposure from equipment or devices should be considered, provided that they yield other additional benefits, such as greater safety, or little or no cost."*

"When changes to existing ELF sources are contemplated, ELF field reduction should be considered alongside safety, reliability and economic aspects."

International Agency for Research on Cancer

In June of 2001, the International Agency for Research on Cancer (IARC), a branch of the World Health Organization (WHO), evaluated the carcinogenic risk to humans of static and extremely low-frequency EMF. In October of 2001, the WHO published a Fact Sheet that summarized the IARC findings. Below is an excerpt from the fact sheet:

In June 2001, an expert scientific working group of IARC reviewed studies related to the carcinogenicity of static and ELF electric and magnetic fields. Using the standard IARC classification that weighs human, animal and laboratory evidence, ELF magnetic fields were classified as possibly carcinogenic to humans based on epidemiological studies of childhood leukaemia. Evidence for all other cancers in children and adults, as well as other types of exposures (i.e. static fields and ELF electric fields) was considered not classifiable either due to insufficient or inconsistent scientific information.

"Possibly carcinogenic to humans" is a classification used to denote an agent for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence for carcinogenicity in experimental animals.

This classification is the weakest of three categories ("is carcinogenic to humans", "probably carcinogenic to humans" and "possibly carcinogenic to humans") used by IARC to classify potential carcinogens based on published scientific evidence. Some examples of well-known agents that have been classified by IARC are listed below:

Classification	***Examples of Agents***
Carcinogenic to humans (usually based on strong evidence of carcinogenicity in humans)	*Asbestos* *Mustard gas* *Tobacco (smoked and smokeless)* *Gamma radiation*
Probably carcinogenic to humans (usually based on strong evidence of carcinogenicity in animals)	*Diesel engine exhaust* *Sun lamps* *UV radiation* *Formaldehyde*
Possibly carcinogenic to humans (usually based on evidence in humans which is considered credible, but for which other explanations could not be ruled out)	*Coffee* *Styrene* *Gasoline engine exhaust* *Pickled Vegetables* *ELF magnetic fields*

DO ELF FIELDS CAUSE CANCER?

ELF fields are known to interact with tissues by inducing electric fields and currents in them. This is the only established mechanism of action of these fields. However, the electric currents induced by ELF fields commonly found in our environment are normally much lower than the strongest electric currents naturally occurring in the body such as those that control the beating of the heart.

> *Since 1979 when epidemiological studies first raised a concern about exposures to power line frequency magnetic fields and childhood cancer, a large number of studies have been conducted to determine if measured ELF exposure can influence cancer development, especially leukaemia in children.*
>
> *There is no consistent evidence that exposure to ELF fields experienced in our living environment causes direct damage to biological molecules, including DNA. Since it seems unlikely that ELF fields could initiate cancer, a large number of investigations have been conducted to determine if ELF exposure can influence cancer promotion or co-promotion. Results from animal studies conducted so far suggest that ELF fields do not initiate or promote cancer.*

However, two recent pooled analyses of epidemiological studies provide insight into the epidemiological evidence that played a pivotal role in the IARC evaluation. These studies suggest that, in a population exposed to average magnetic fields in excess of 0.3 to 0.4 μT, twice as many children might develop leukaemia compared to a population with lower exposures. In spite of the large number data base, some uncertainty remains as to whether magnetic field exposure or some other factor(s) might have accounted for the increased leukaemia incidence.

> *Childhood leukaemia is a rare disease with 4 out of 100,000 children between the age of 0 to 14 diagnosed every year. Also average magnetic field exposures above 0.3 or 0.4 μT in residences are rare. It can be estimated from the epidemiological study results that less than 1% of populations using 240 volt power supplies are exposed to these levels, although this may be higher in countries using 120 volt supplies.*
>
> *The IARC review addresses the issue of whether it is feasible that ELF-EMF pose a cancer risk. The next step in the process is to estimate the likelihood of cancers in the general population from the usual exposures and to evaluate evidence for other (non-cancer) diseases. This part of the risk assessment should be finished by WHO in the next 18 months.*

American Cancer Society

In the journal, *A Cancer Journal for Clinicians*, the American Cancer Society (ACS) reviewed EMF residential and occupational epidemiologic research in an article written by Dr. Clark W. Heath, Jr., ACS's vice president of epidemiology and surveillance research. Dr. Heath reviews 13 residential epidemiologic studies of adult and childhood cancer. Dr. Heath wrote:

> *Evidence suggesting that exposure to EMF may or may not promote human carcinogenesis is mostly based on...epidemiologic observations.... While those observations may suggest such a relationship for leukemia and brain cancer in particular, the findings are weak, inconsistent, and inconclusive.... The weakness and inconsistent nature of epidemiologic data, combined with the continued dearth of coherent and reproducible findings from experimental laboratory research, leave one uncertain and rather doubtful that any real biologic link exists between EMF exposure and carcinogenicity.*

American Medical Association

The AMA adopted recommendations of its Council on Scientific Affairs (CSA) regarding EMF health effects. The report was prepared as a result of a resolution passed by AMA's membership

at its 1993 annual meeting. The following recommendations are based on the CSA's review of EMF epidemiologic and laboratory studies to date, as well as on several major literature reviews:

- Although no scientifically documented health risk has been associated with the usually occurring levels of electromagnetic fields, the AMA should continue to monitor developments and issues related to the subject.
- The AMA should encourage research efforts sponsored by agencies such as the National Institutes of Health, the U.S. Department of Energy, and the National Science Foundation. Continuing research should include study of exposures to EMF and its effects, average public exposures, occupational exposures, and the effects of field surges and harmonics.
- The AMA should support the meeting of an authoritative, multidisciplinary committee under the auspices of the National Academy of Sciences or the National Council on Radiation Protection and Measurements to make recommendations about exposure levels of the public and workers to EMF and radiation.

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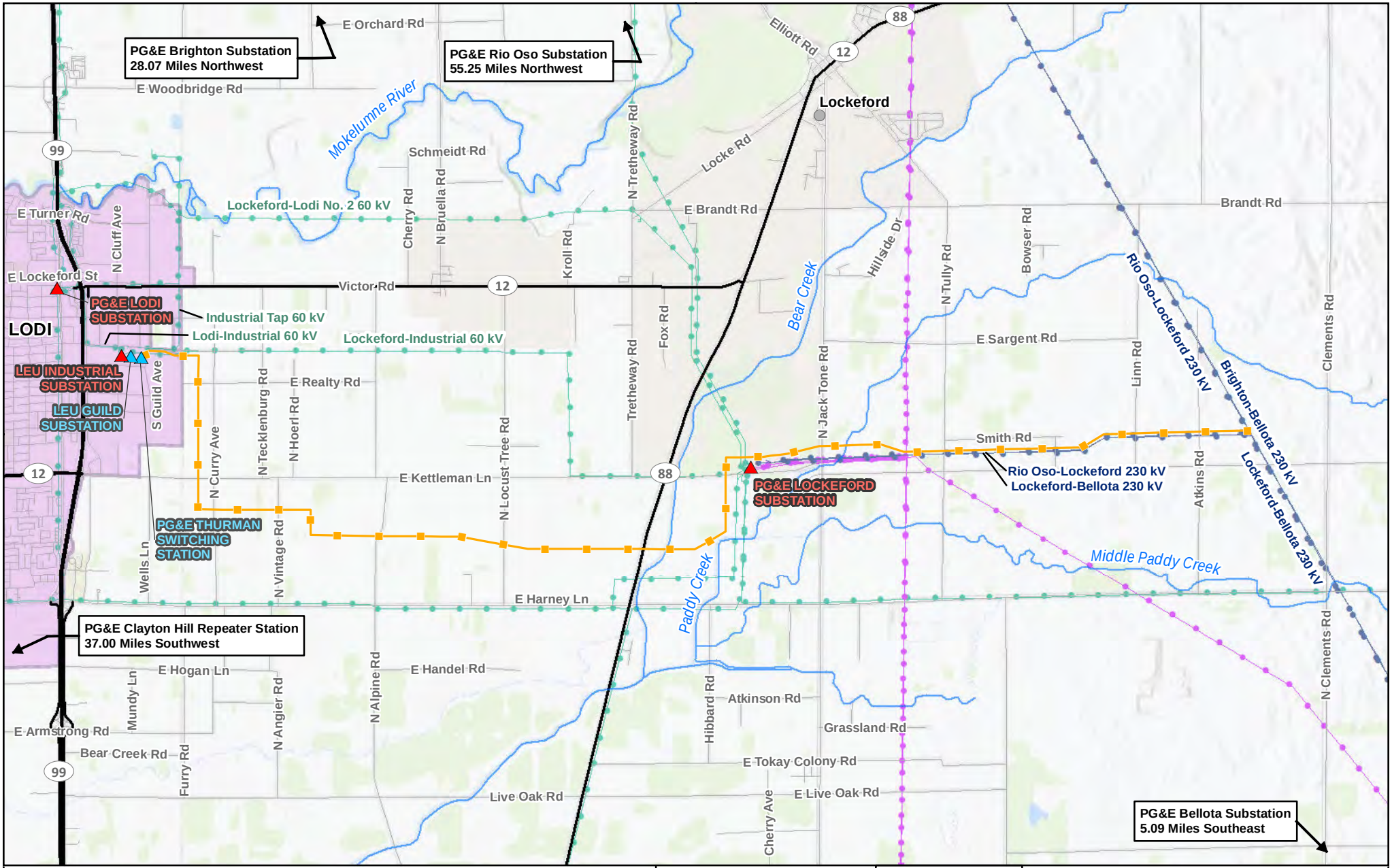
Appendix A1
Figures



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line

Existing PG&E Power and Transmission Lines

- 60
- 115
- 230

- Major_Roads
- Local Road
- River/Stream
- City Boundary

Source:
1) Base Map Source: ESRI World Topo

Scale:
1:65,000

0 0.5 1 Miles

N

Project Location

FIGURE 3.1-1
Project Location Overview
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\WorkStagingAreas\Figure3.1-1_Project_Location_Overview_220830.mxd kgrant1 7/27/2023



Legend

- Existing PG&E 230 kV Transmission Line
- Existing PG&E 115 kV Transmission Line
- Existing PG&E 60 kV Power Line
- Approximate Existing Gate
- Approximate Existing Fenceline
- Existing PG&E Rio Oso-Lockeford | Lockeford-Bellota Structure (RO1)
- Parcel Boundary
- 6325033 Parcel Number
- Existing Substation Drainage Ditch

Source:
1) Esri World Imagery

N

0 80 160 Feet

Scale: 1:1,673

Project Location

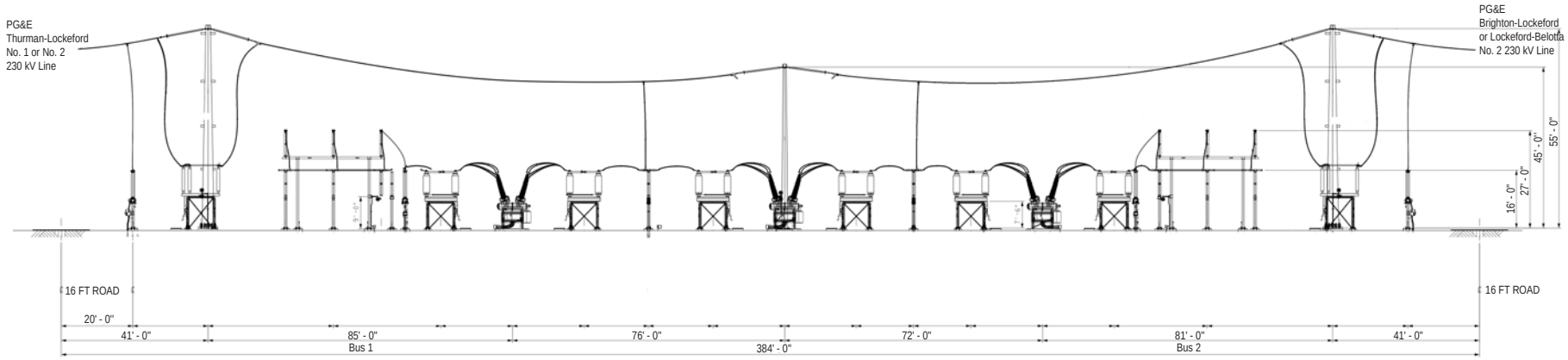
FIGURE 3.3-1a
Existing PG&E Lockeford Substation Aerial View
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.3-1a_ExistingLockefordStation_Aerial_220830.mxd kgrant1 7/27/2023



FIGURE 3.3-1b
Proposed PG&E Lockeford Substation Aerial View
Northern San Joaquin 230 kV Transmission Project

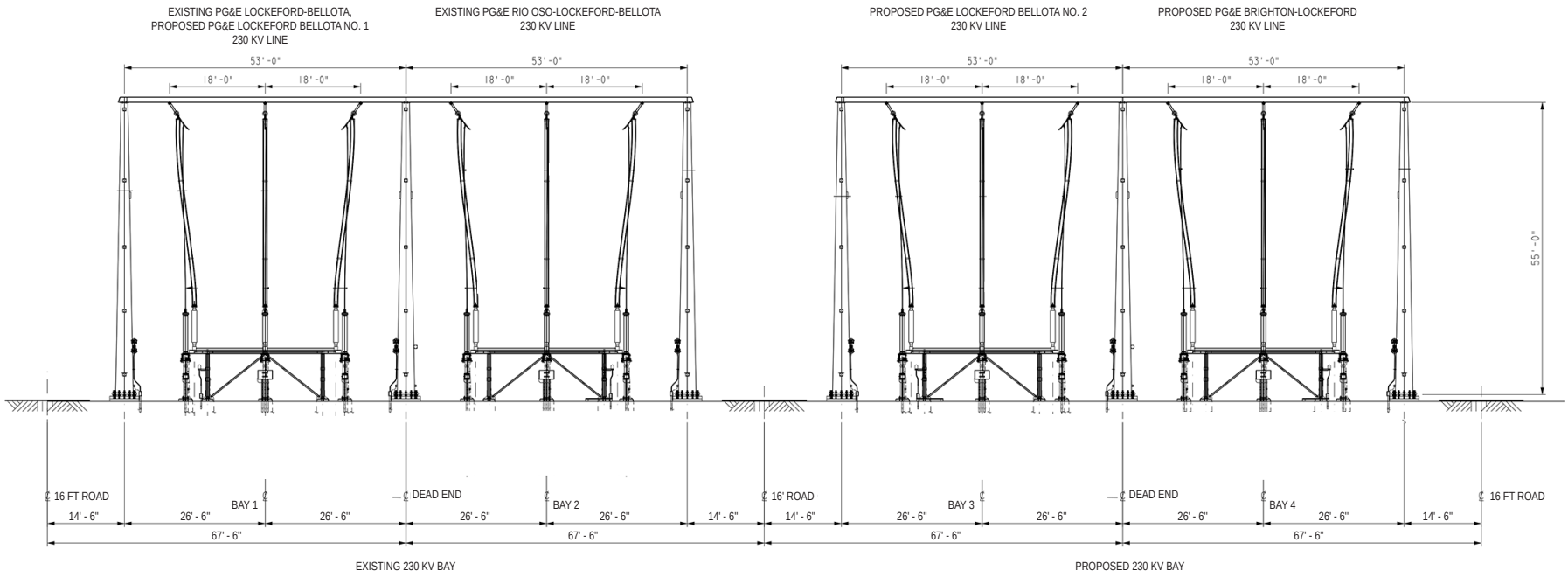
\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.3-1b_ProposedLockefordStation_Aerial_220830.mxd kgrant1 7/27/2023



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

Figure 3.3-1c
Proposed PG&E Lockeford Substation New Bay 4 Profile - North View
PG&E Northern San Joaquin 230 kV Transmission Project

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

Figure 3.3-1d
Proposed PG&E Lockeford Substation Profile - West View
PG&E Northern San Joaquin 230 kV Transmission Project

PPS0831220856BAO



Legend

- Parcel Boundary
- City of Lodi Boundary
- Railroad

Existing PG&E 60 kV Power Lines

- Existing PG&E Structure
- Existing PG&E 60 kV Power Line
- Existing Guy Stub Pole: Remove
- Existing PG&E 12 kV Distribution Pole
- Existing LEU 12 kV Distribution Pole
- Existing LEU 12 kV Underbuild
- Existing LEU 12 kV Underground
- Existing Communication Pole
- Existing Comcast Communication Underbuild

Source:
1) ESRI World Imagery

0 100 200 Feet

N

Scale: 1:3,600

Project Location

FIGURE 3.3-2a
Existing Project Area within City of Lodi
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.3-2a_ExistingIndustrialStation_Aerial_220906.mxd kgrant1 8/17/2023

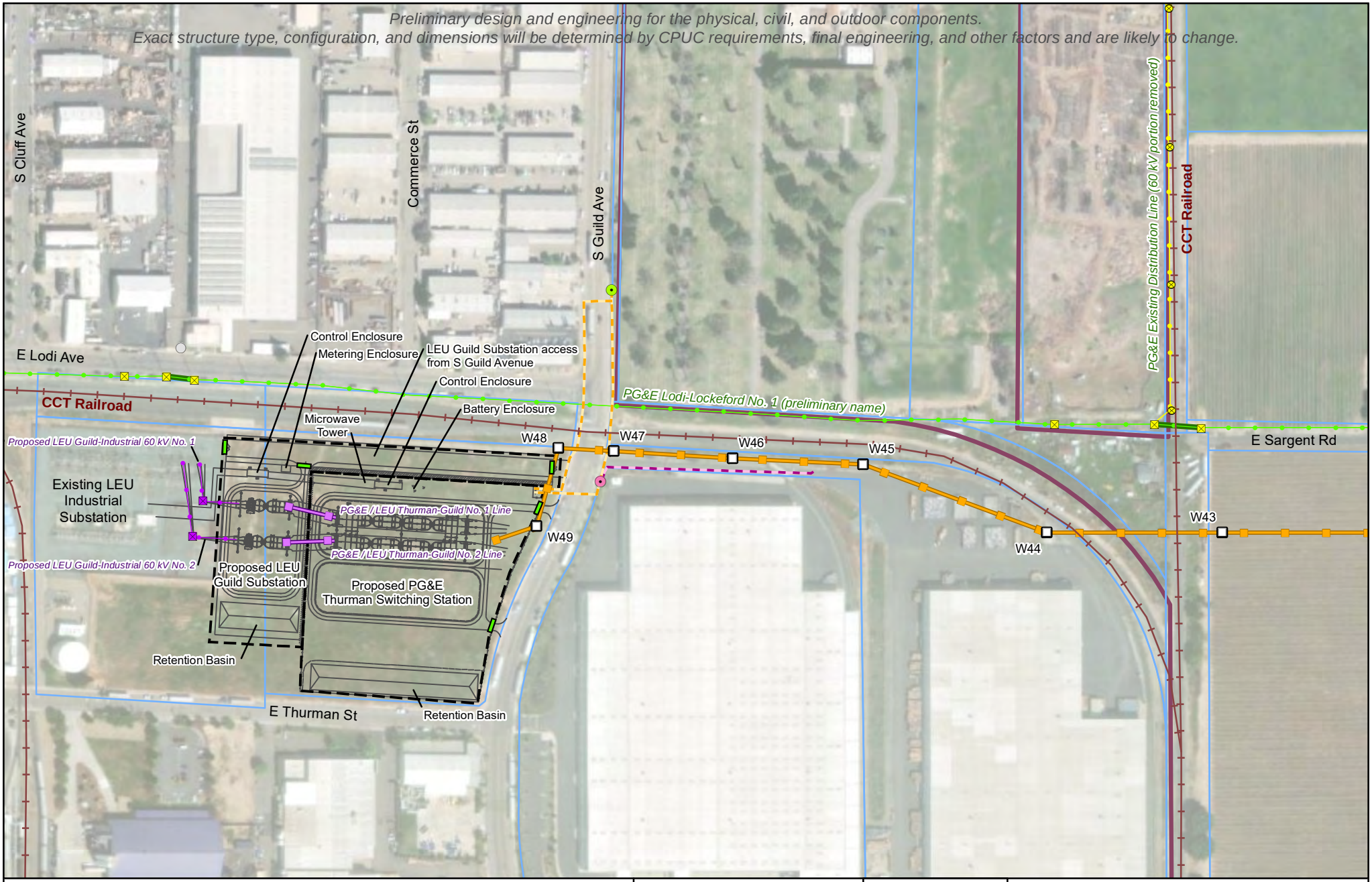


FIGURE 3.3-2b
Proposed Project Area within City of Lodi
Northern San Joaquin 230 kV Transmission Project

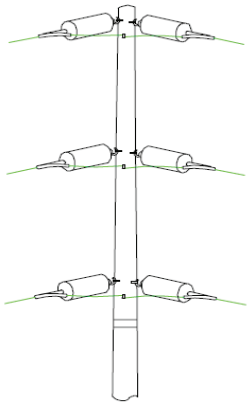
\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.3-2b_ProposedLodiArea_Aerial_220907.mxd kgrant1 8/17/2023



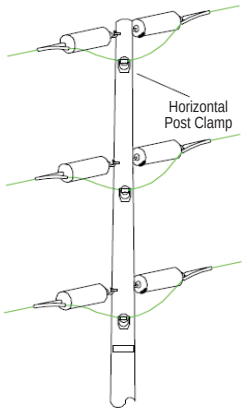
Figure 3.3-3a
Example PG&E light-duty steel 60 kV power pole with weathered finish (rusty color)
PG&E Northern San Joaquin 230 kV Transmission Project

Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

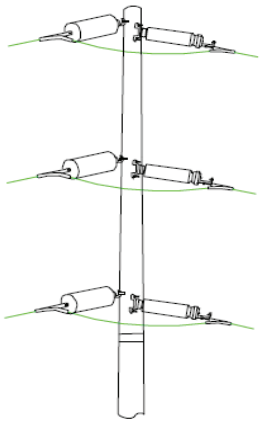
Double Vertical Dead End, DV-DE



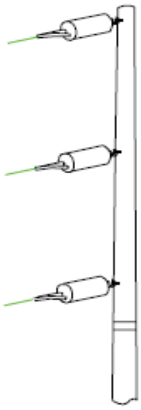
Double Vertical Post Jumper, DV-PJ



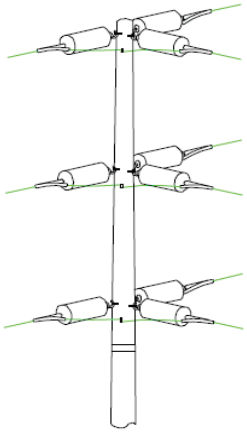
Single Vertical Post Jumper, SV-PJ



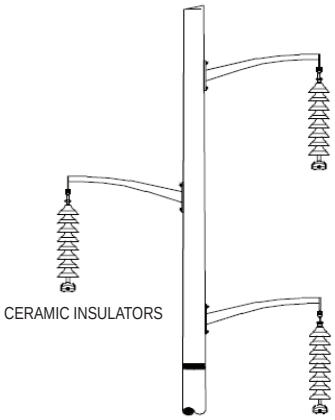
Single Vertical Dead End, SV-DE



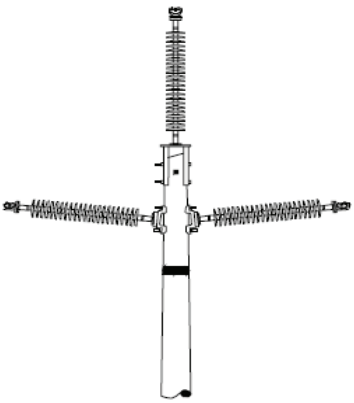
3-Way Vertical Tap, 3WV-T



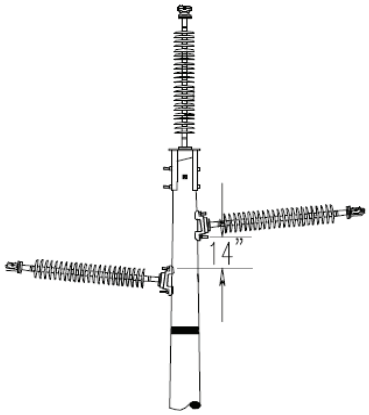
Suspension Steel, SS-1



Triangular, T1



Triangular Alternate, T1-1A



Delta Post, 3-HPD

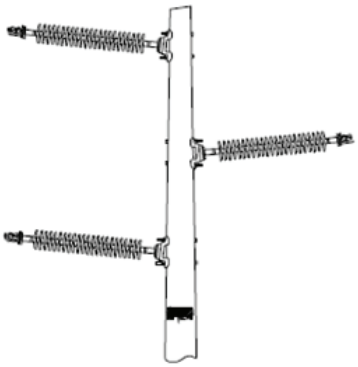


Figure 3.3-3b
Typical PG&E 60 kV power pole framing types
PG&E Northern San Joaquin 230 kV Transmission Project

Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

PPS0831220856BAO





Figure 3.3-4
Example Photos of Line Tuner and Wave Trap Equipment at PG&E Remote End Substations





Figure 3.3-5
Existing PG&E Clayton Hill Repeater Station South Tower - Northwest and West Views
PG&E Northern San Joaquin 230 kV Transmission Project



Figure 3.3-6a
Example 230 kV Monopole Structures
PG&E Northern San Joaquin 230 kV Transmission Project

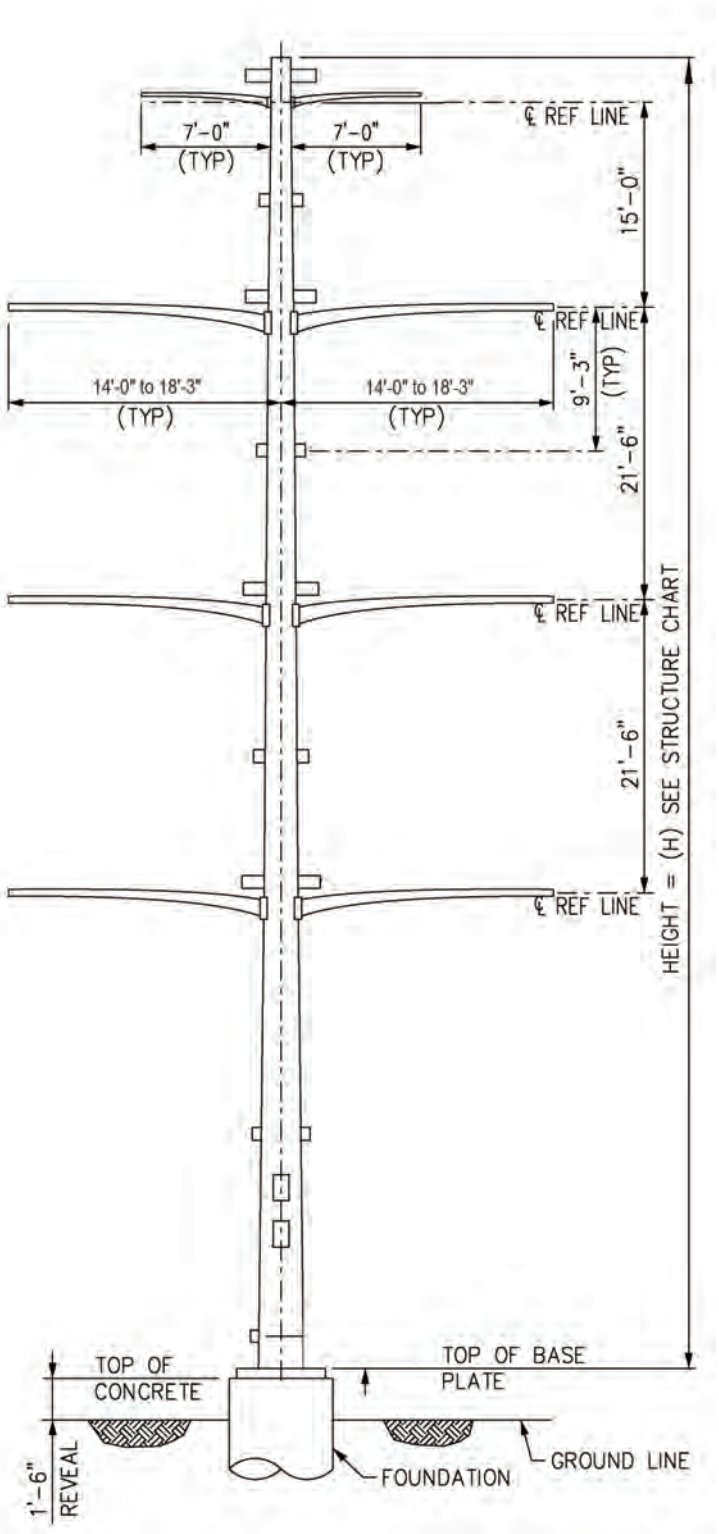


Figure 3.3-6b
Typical Dead-end 230 kV Tubular Steel Pole Structure Drawing
PG&E Northern San Joaquin 230 kV Transmission Project

Typical Structure is 60% design. Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

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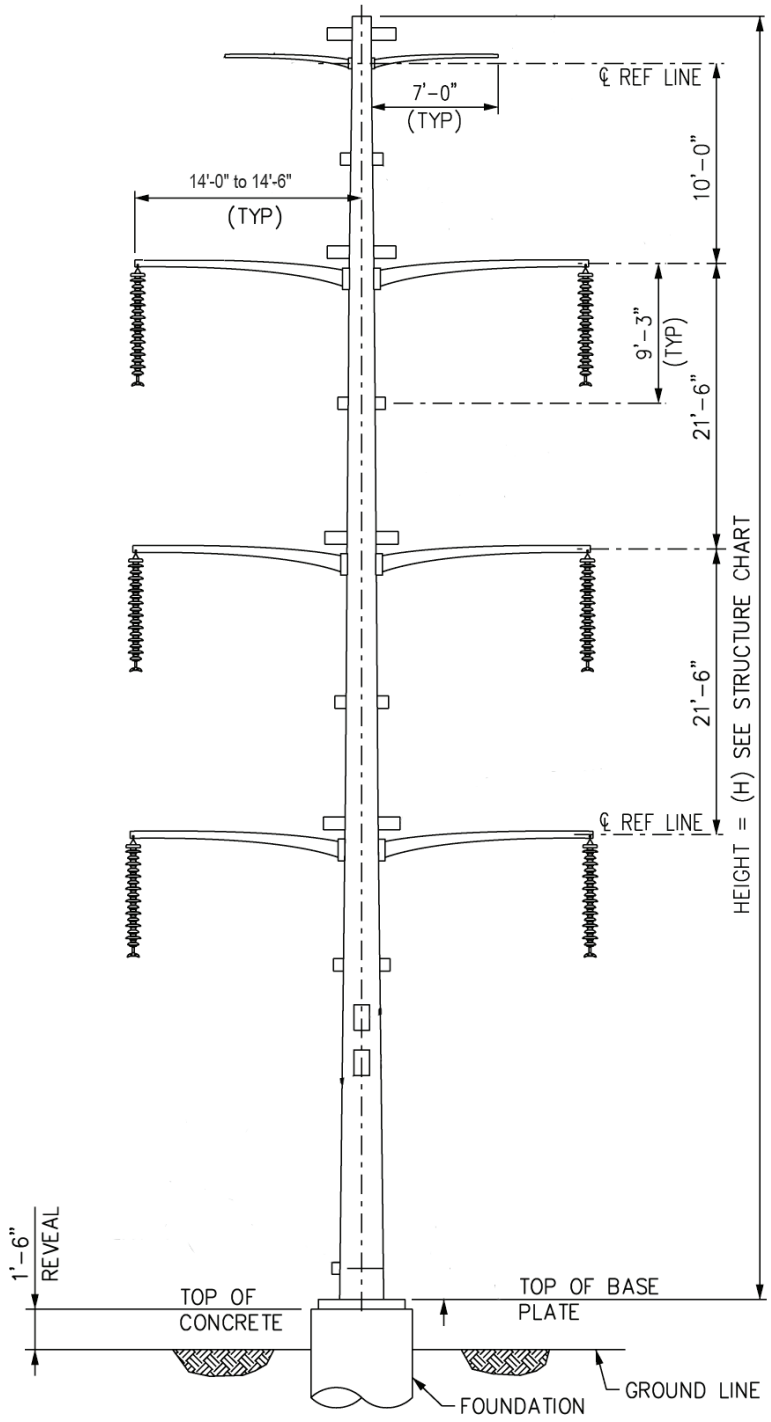
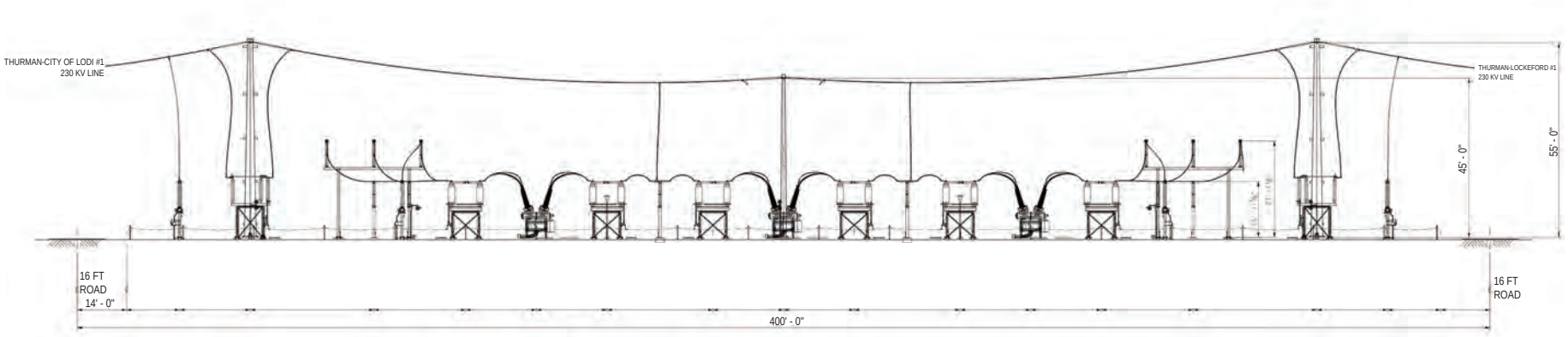


Figure 3.3-6c
Typical Tangent 230 kV Tubular Steel Pole Structure Drawing
PG&E Northern San Joaquin 230 kV Transmission Project

Typical Structure is 60% design. Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

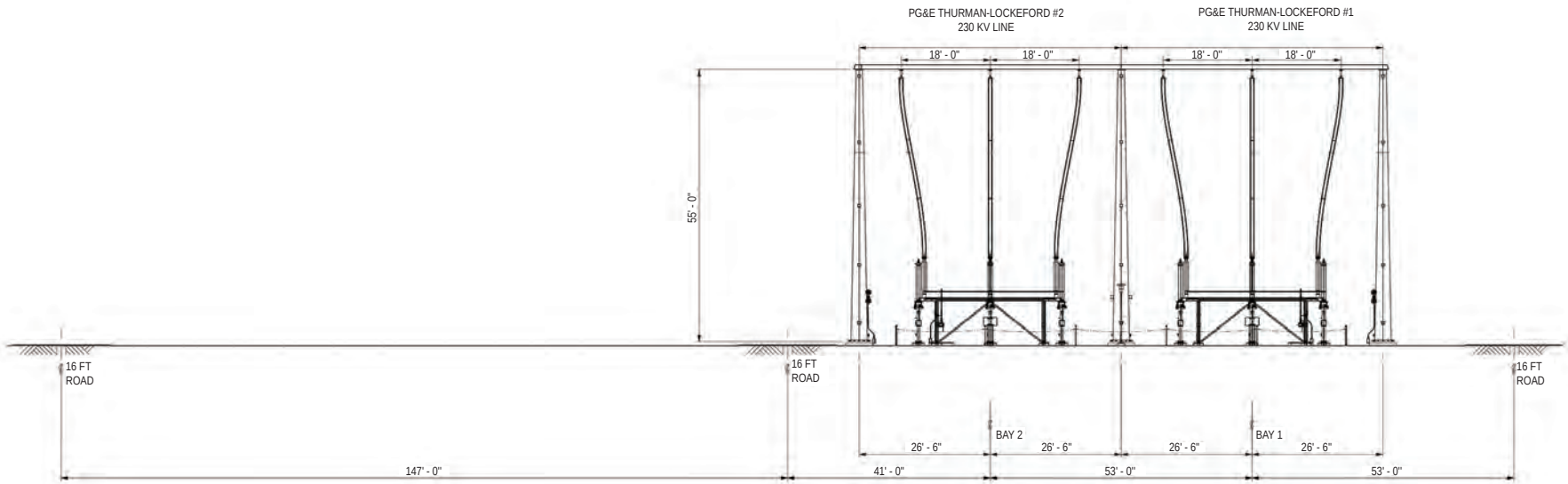


Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

Figure 3.3-7a
Proposed PG&E Thurman Switching Station Bay 1 Profile - North View
PG&E Northern San Joaquin 230 kV Transmission Project

PPS0831220856BAO

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors



Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

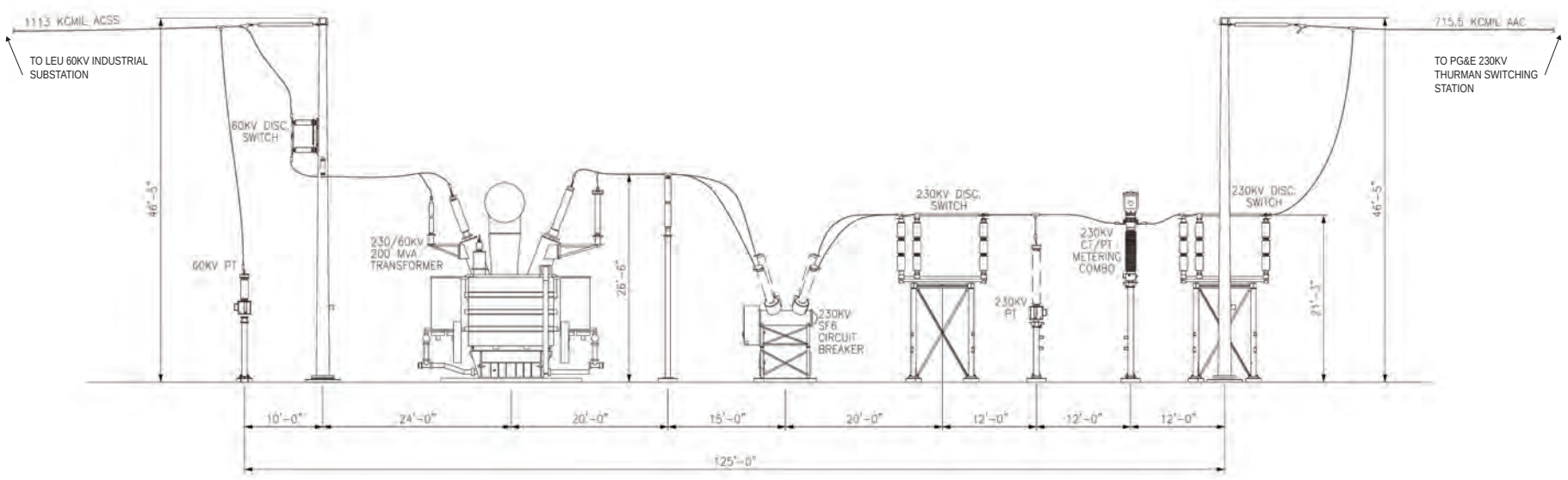
Figure 3.3-7b
Proposed PG&E Thurman Switching Station Profile - West View
PG&E Northern San Joaquin 230 kV Transmission Project

PPS0831220856BAO



Figure 3.3-7c
Example 150-foot Microwave Tower
PG&E Northern San Joaquin 230 kV Transmission Project

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

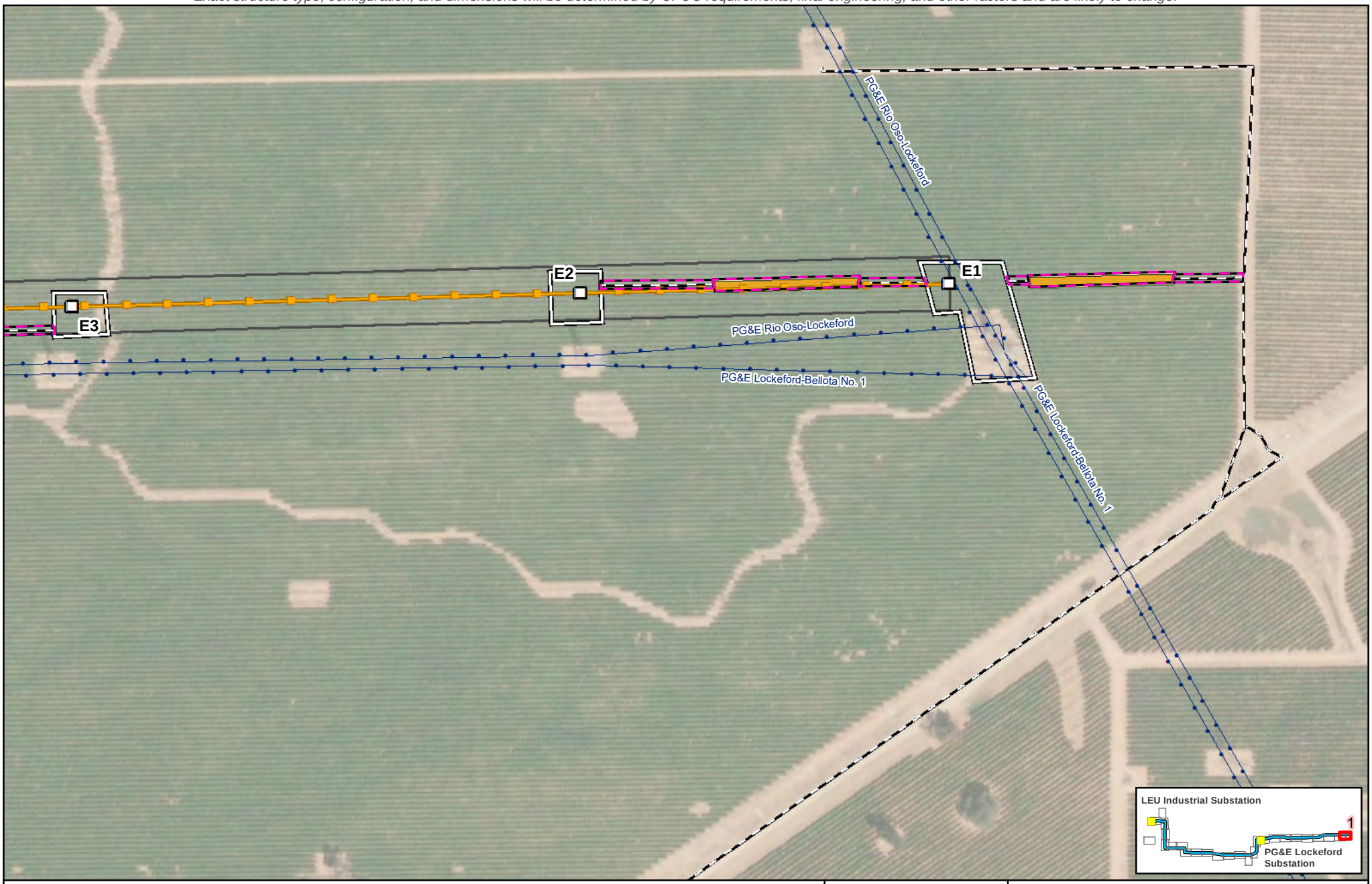


Typical Structure is 60% design. Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

Figure 3.3-8
Proposed LEU Guild Substation 230/60 KV Bay Profile - North View
PG&E Northern San Joaquin 230 kV Transmission Project

PPS0831220856BAO

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Existing Line Crossing

Source:
1) Esri World Imagery

N

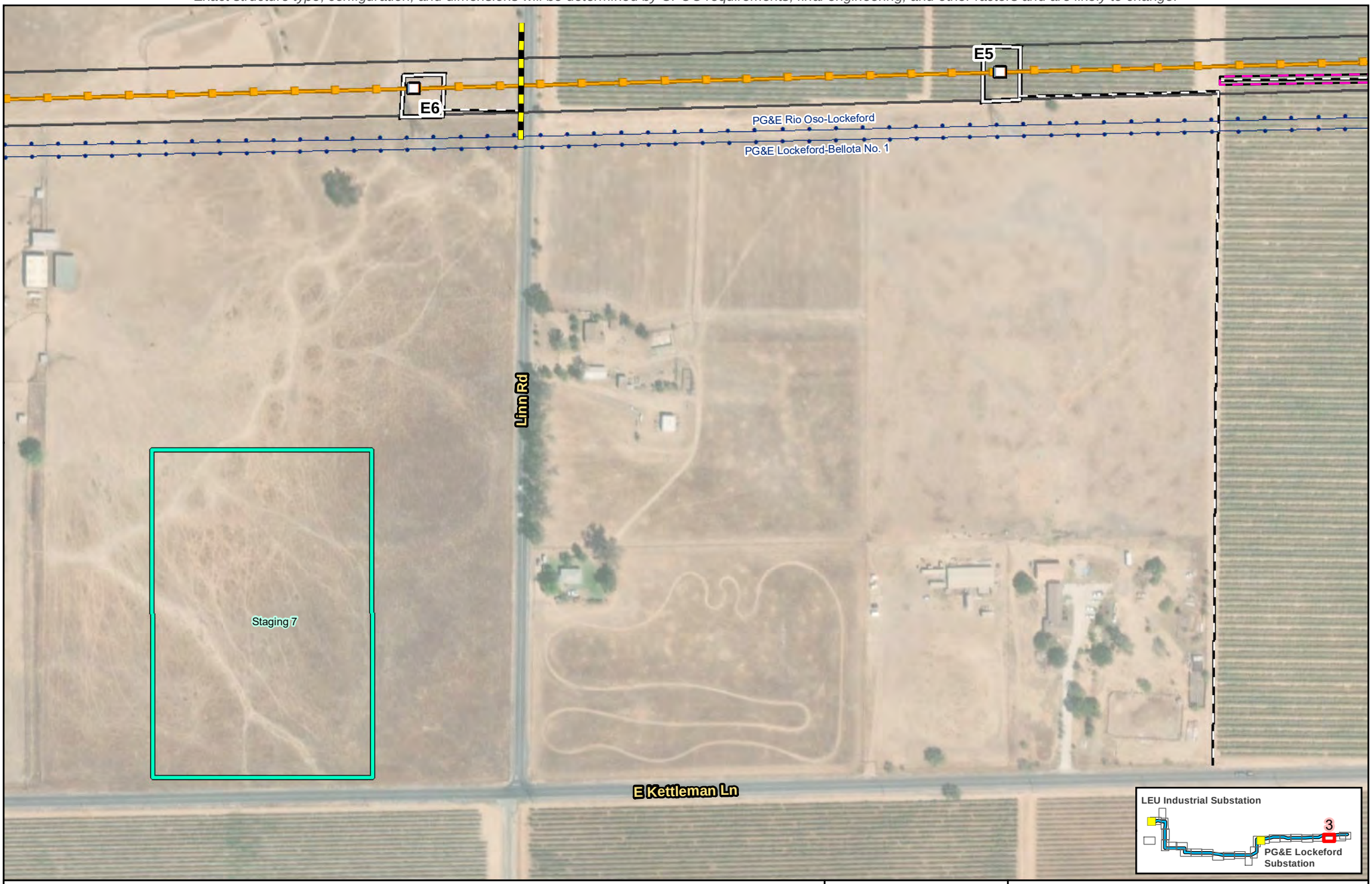
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Crop removal
- Proposed Work Area
- Potential Staging Area
- Existing Line Crossing

Source:
1) Esri World Imagery

N

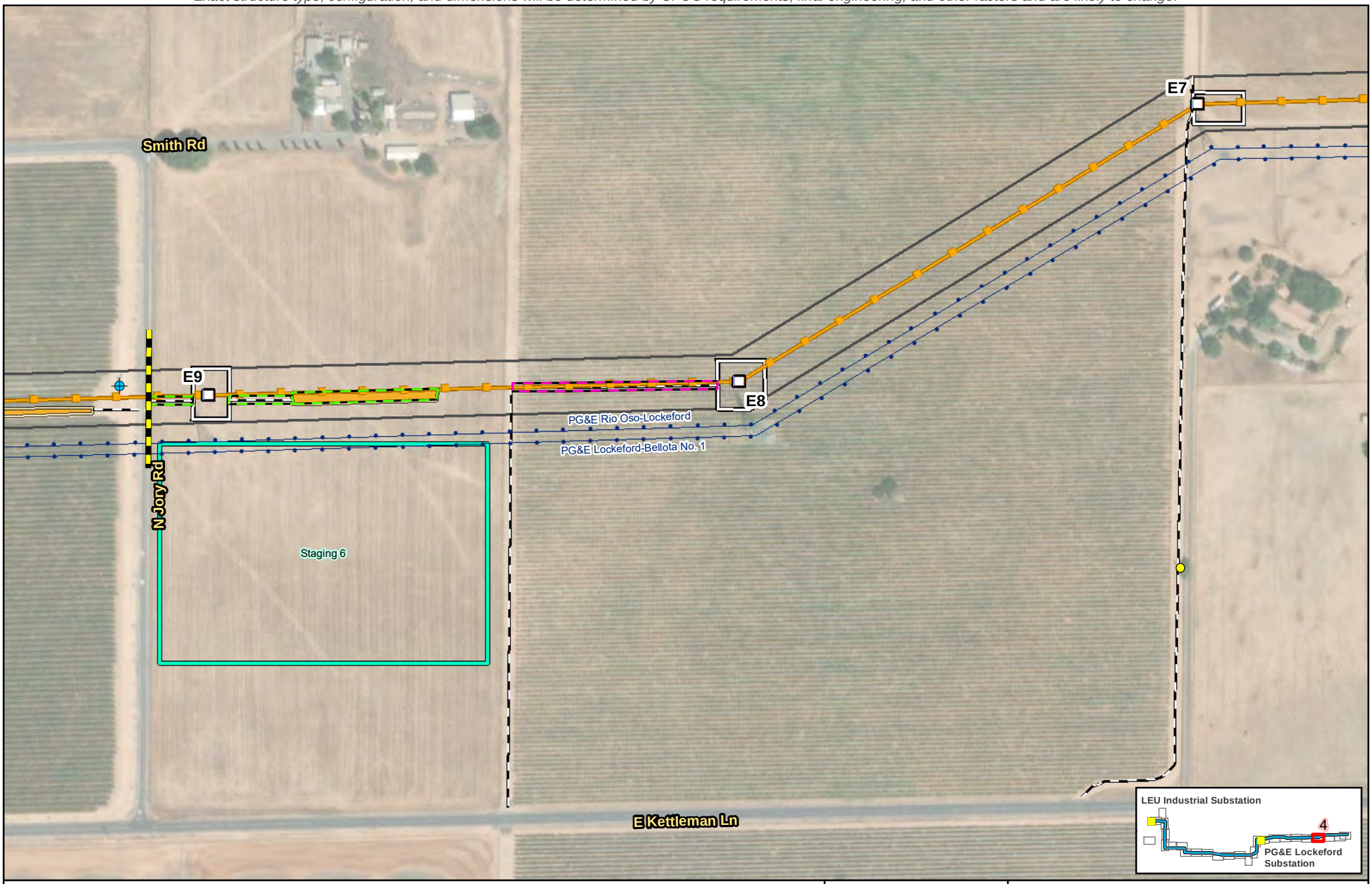
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- New Impact - Overland
- Proposed Work Area
- Potential Staging Area
- Potential Tree Trimming or Removal
- Existing Line Crossing
- Agricultural Well

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- Proposed Work Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

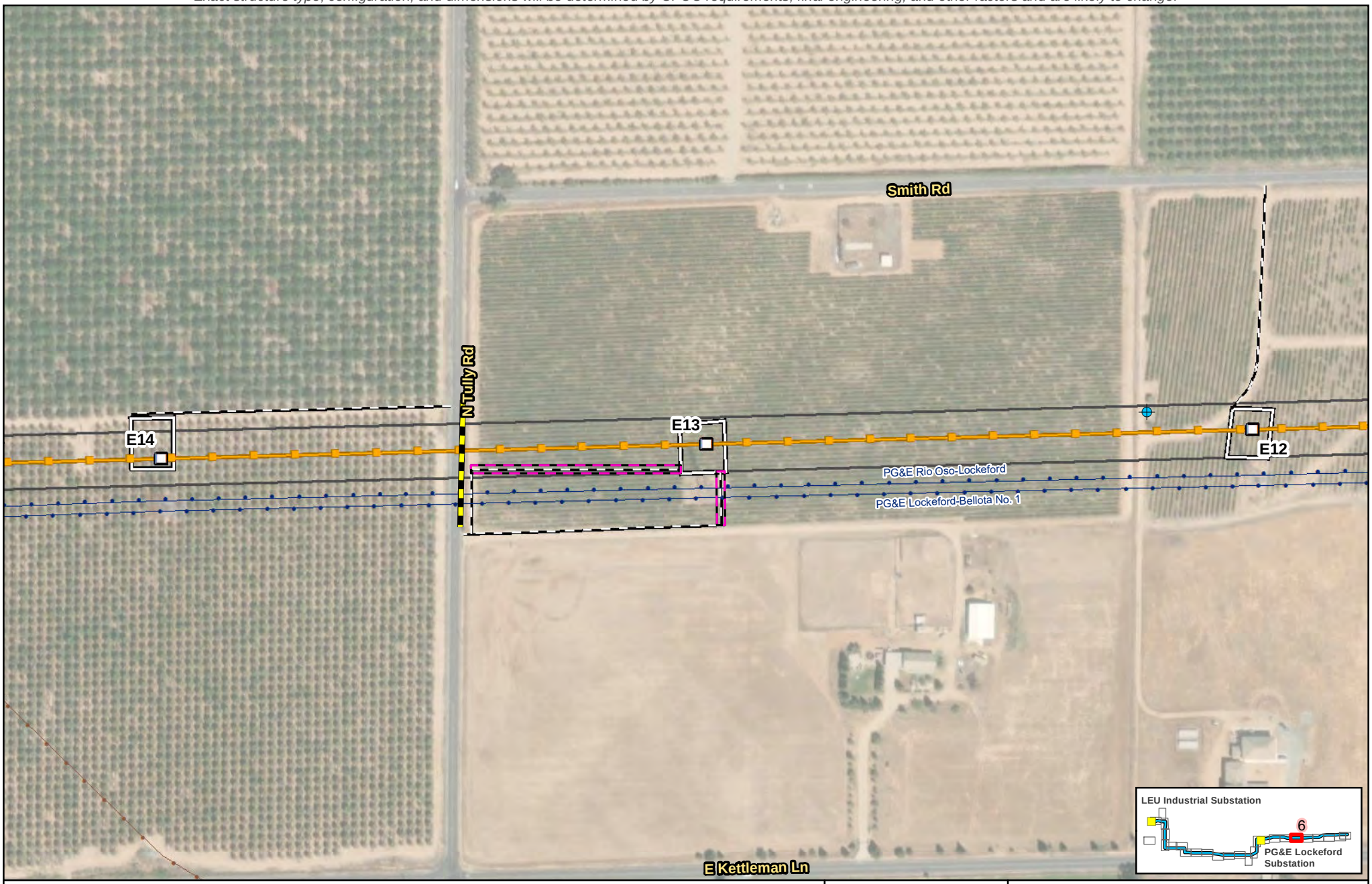
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Existing PG&E 115 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Crop removal
- Proposed Work Area
- Existing Line Crossing
- Agricultural Well

Source:
1) Esri World Imagery

N

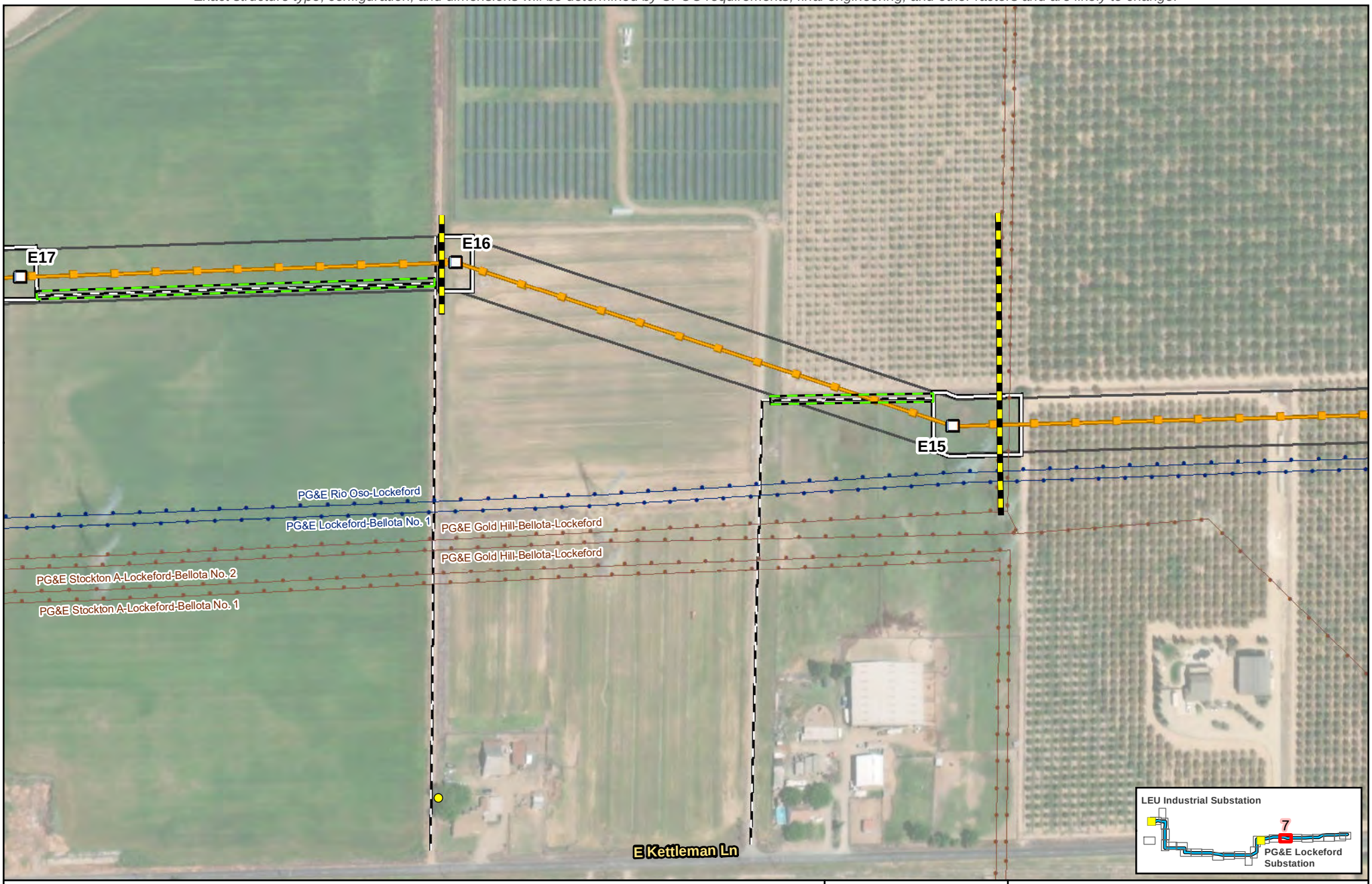
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Existing PG&E 115 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Overland
- Proposed Work Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

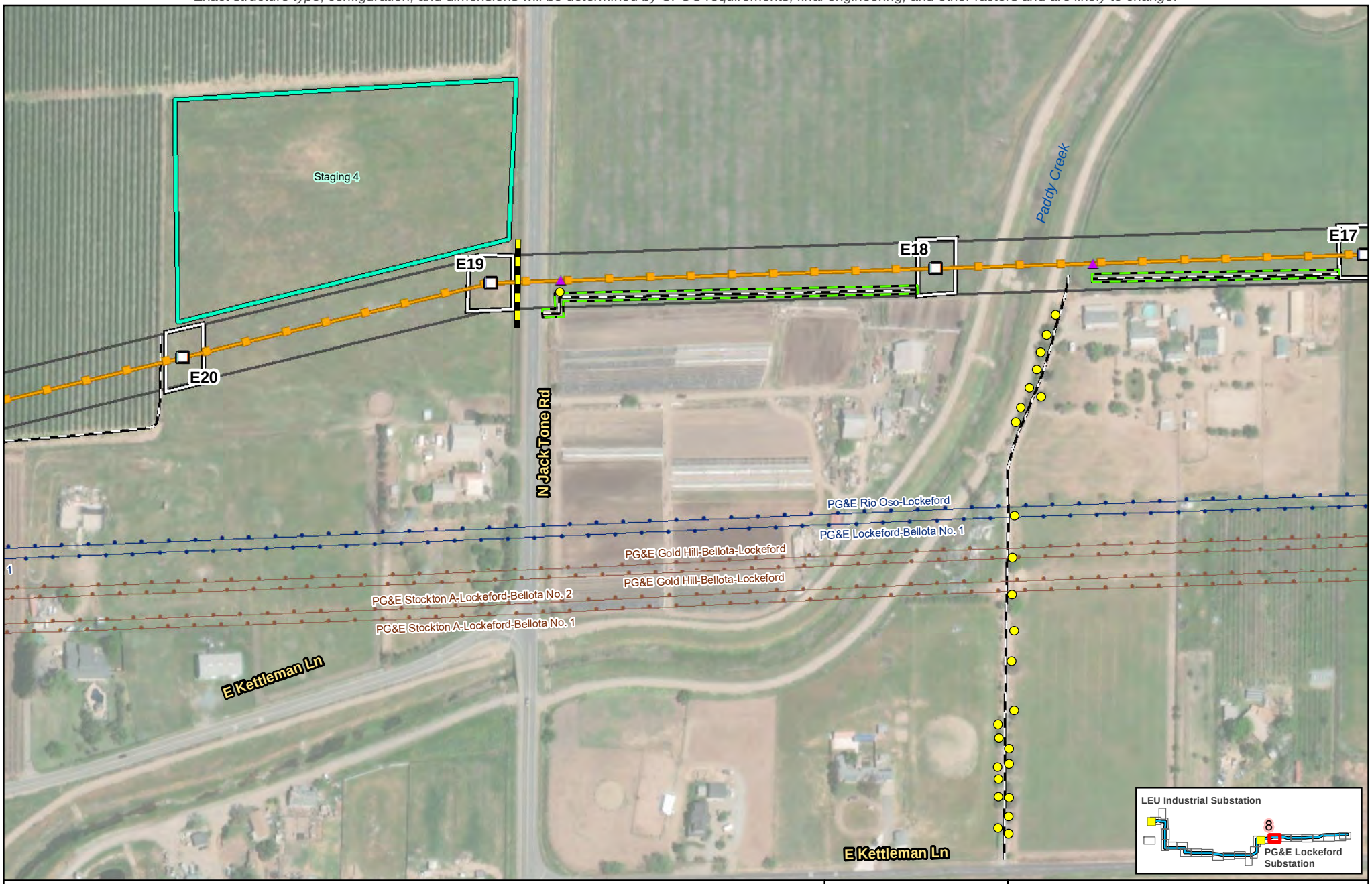
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 7 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Existing PG&E 115 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- New Impact - Overland
- Proposed Work Area
- Potential Staging Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

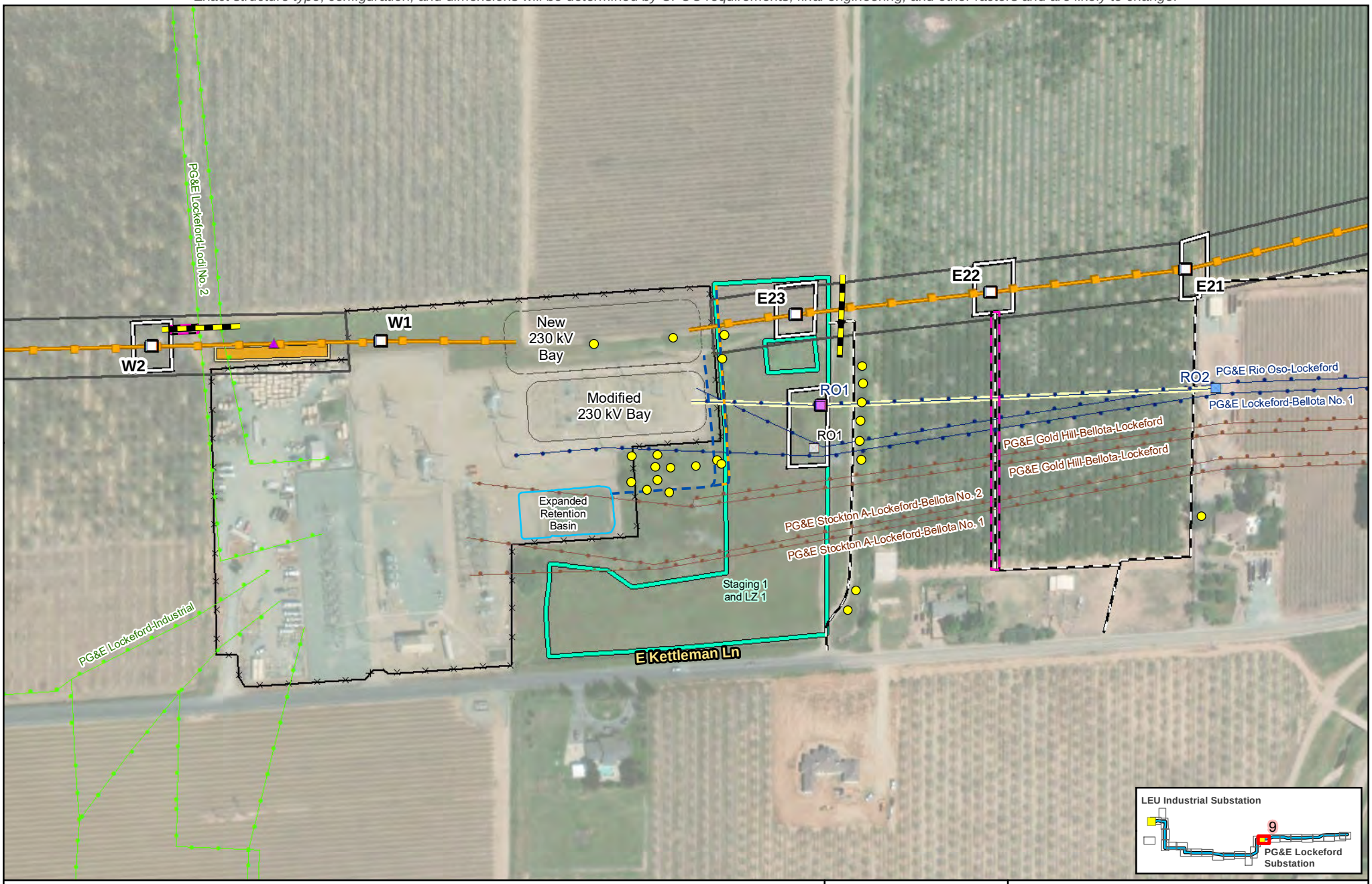
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- Proposed PG&E Rio Oso-Lockeford | Lockeford-Bellota (RO1) TSP
- PG&E New 230 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Proposed PG&E Rio Oso-Lockeford | Lockeford-Bellota Realignment
- Existing PG&E 115 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Proposed Fenceline
- Modified Substation Drainage Ditch
- Existing Substation Drainage Ditch
- Potential Staging Area
- Existing PG&E 60 kV Power Line
- PG&E 230 kV Structure: Remove
- Existing PG&E 230 kV Structure
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

0 100 Feet

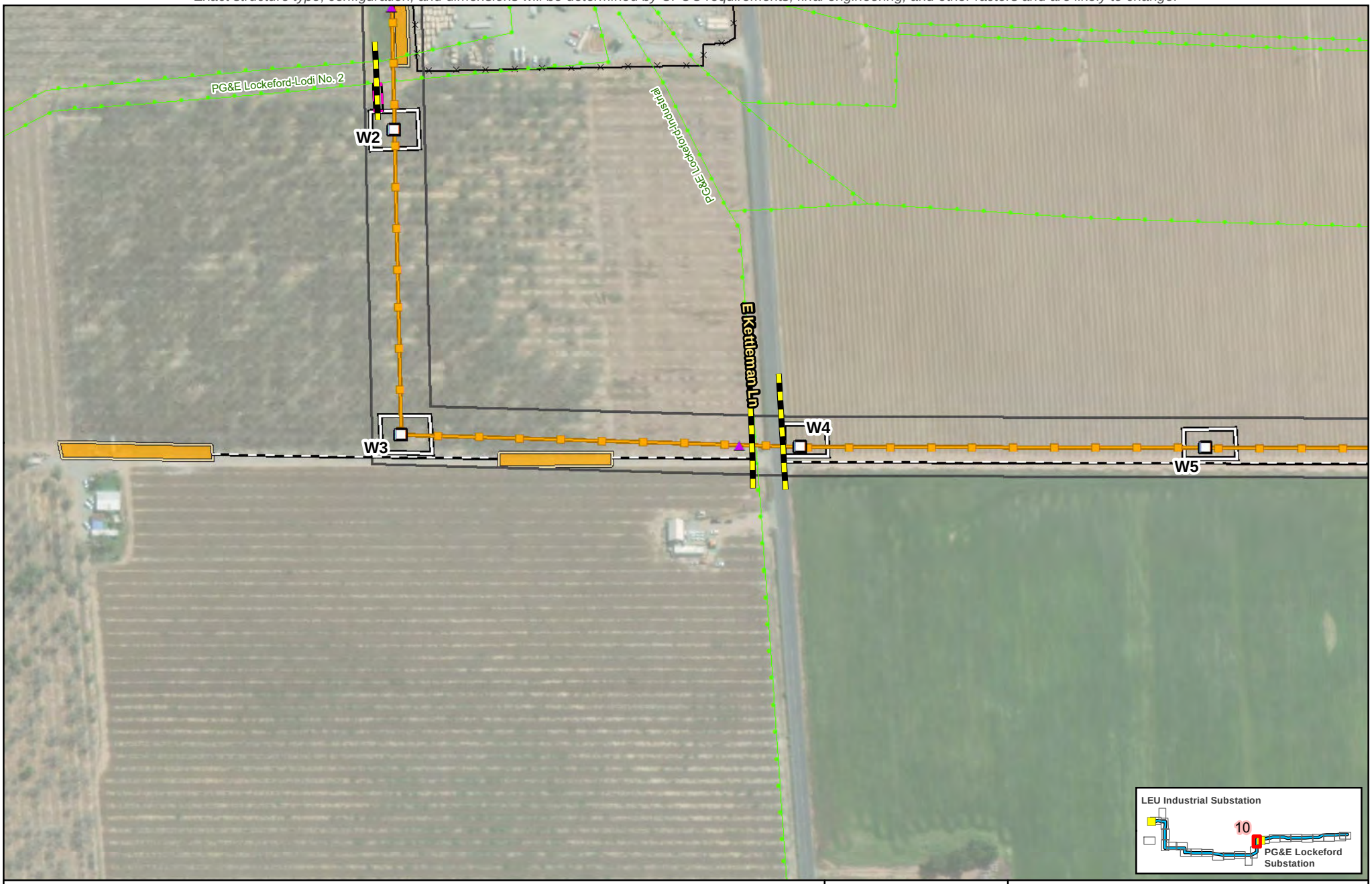
N

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 9 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Proposed Fenceline
- Existing PG&E 60 kV Power Line
- Existing Line Crossing

Source:
1) Esri World Imagery

N

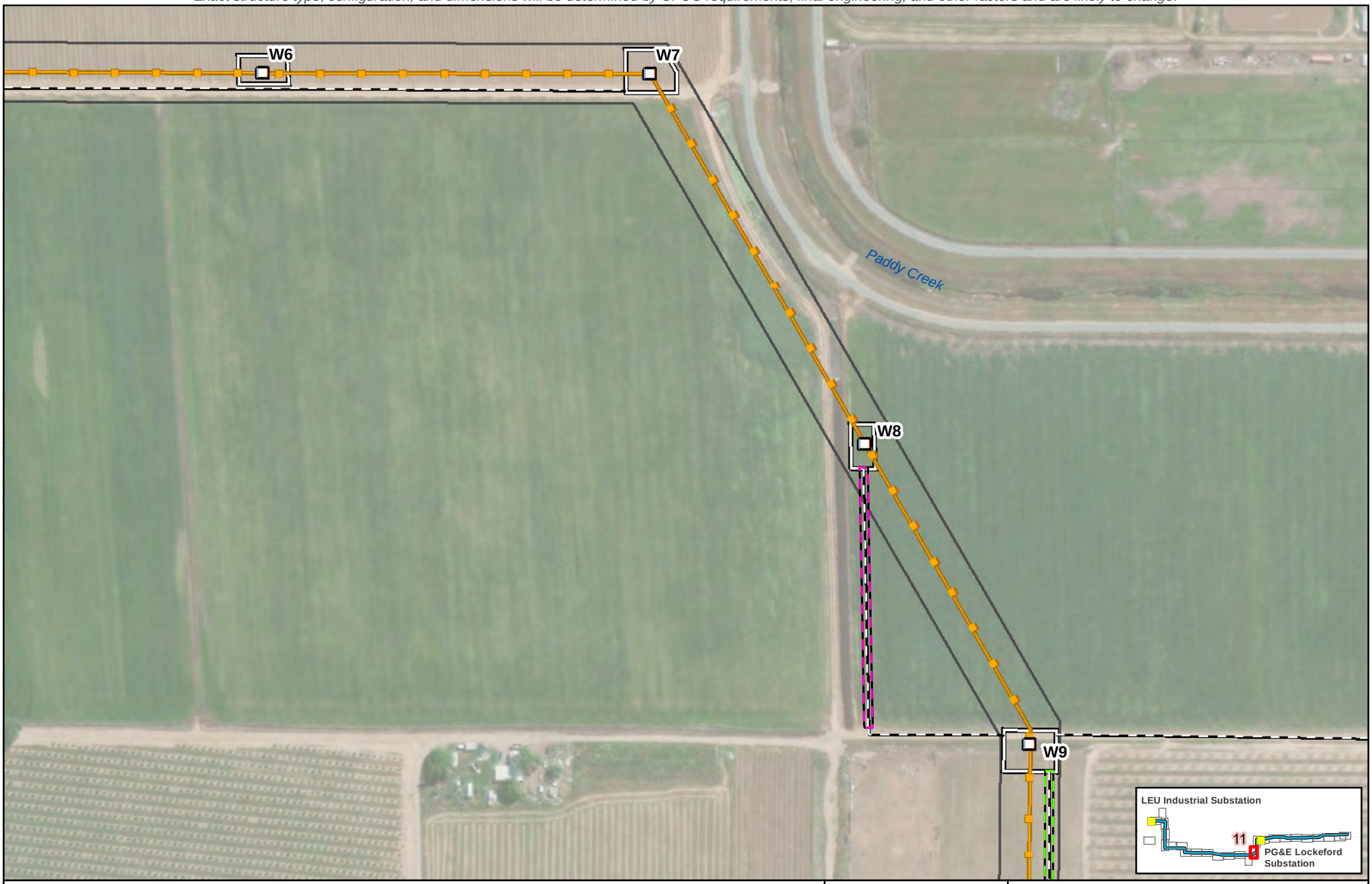
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 10 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Crop removal
- New Impact - Overland
- Proposed Work Area

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 11 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- New Impact - Crop removal
- New Impact - Overland
- Proposed Work Area
- Existing PG&E 60 kV Power Line
- Potential Tree Trimming or Removal

Source:
1) Esri World Imagery

N

0 100 Feet

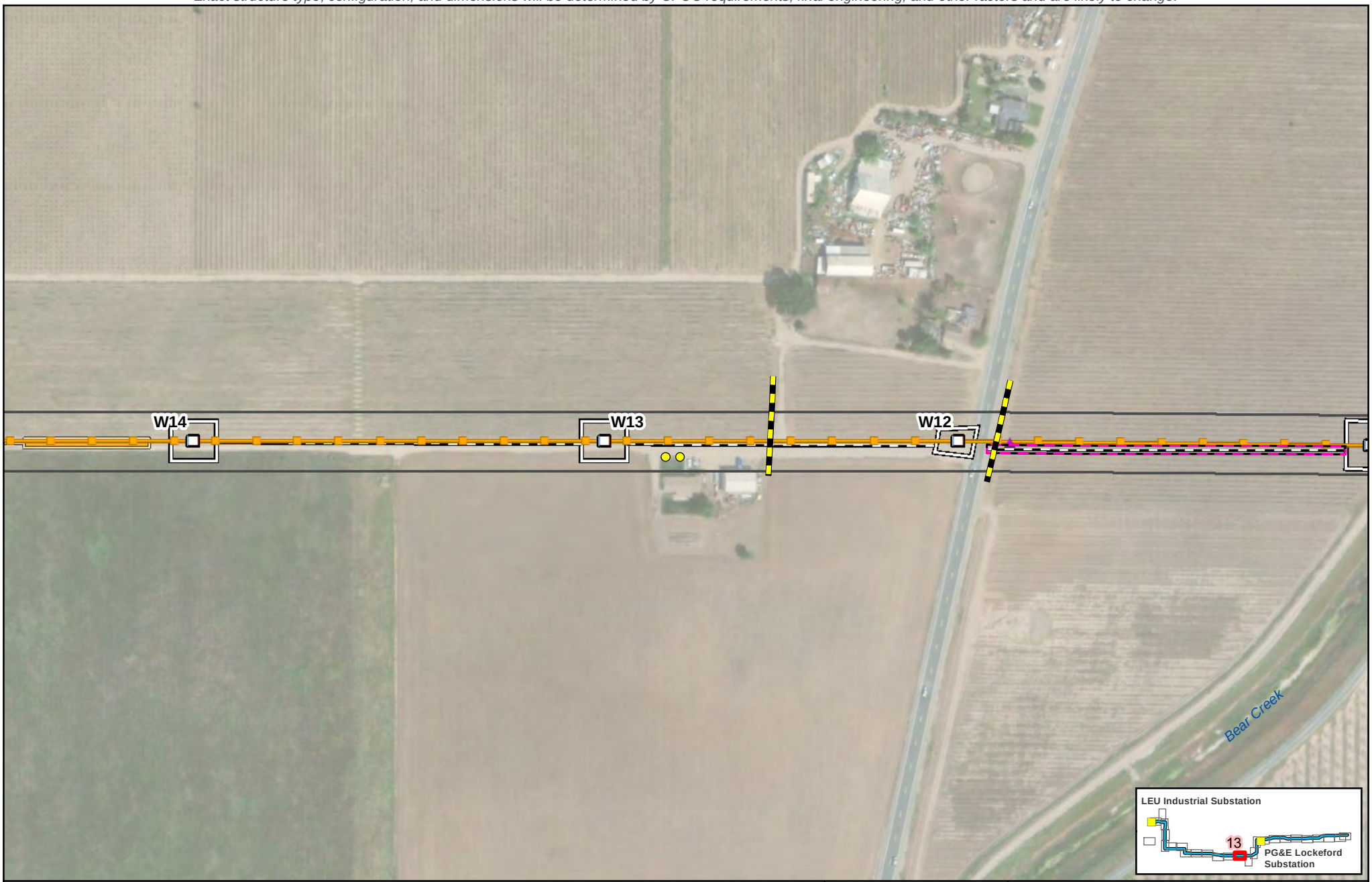
Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

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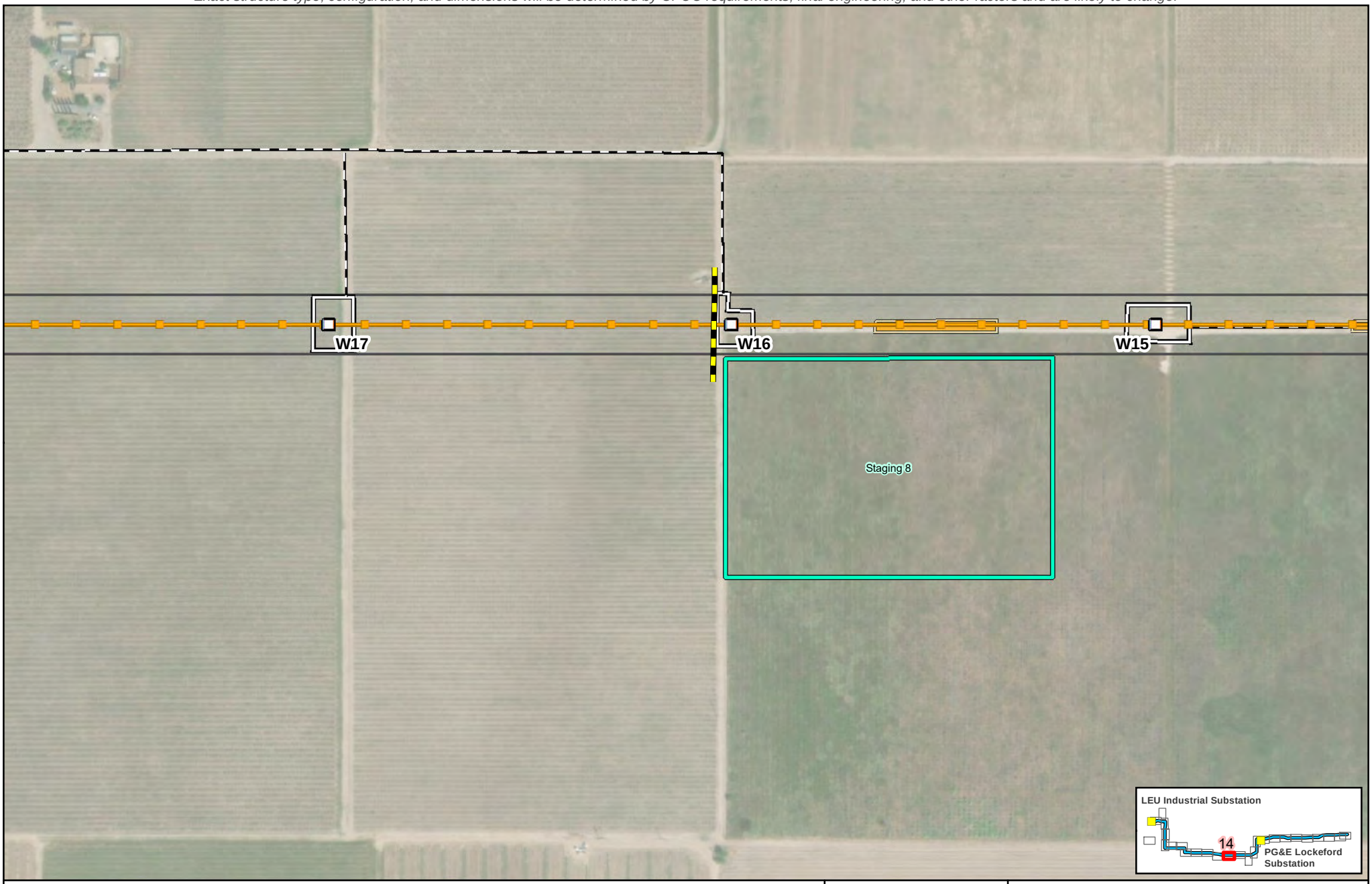
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- Proposed Work Area
- Potential Staging Area
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 14 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

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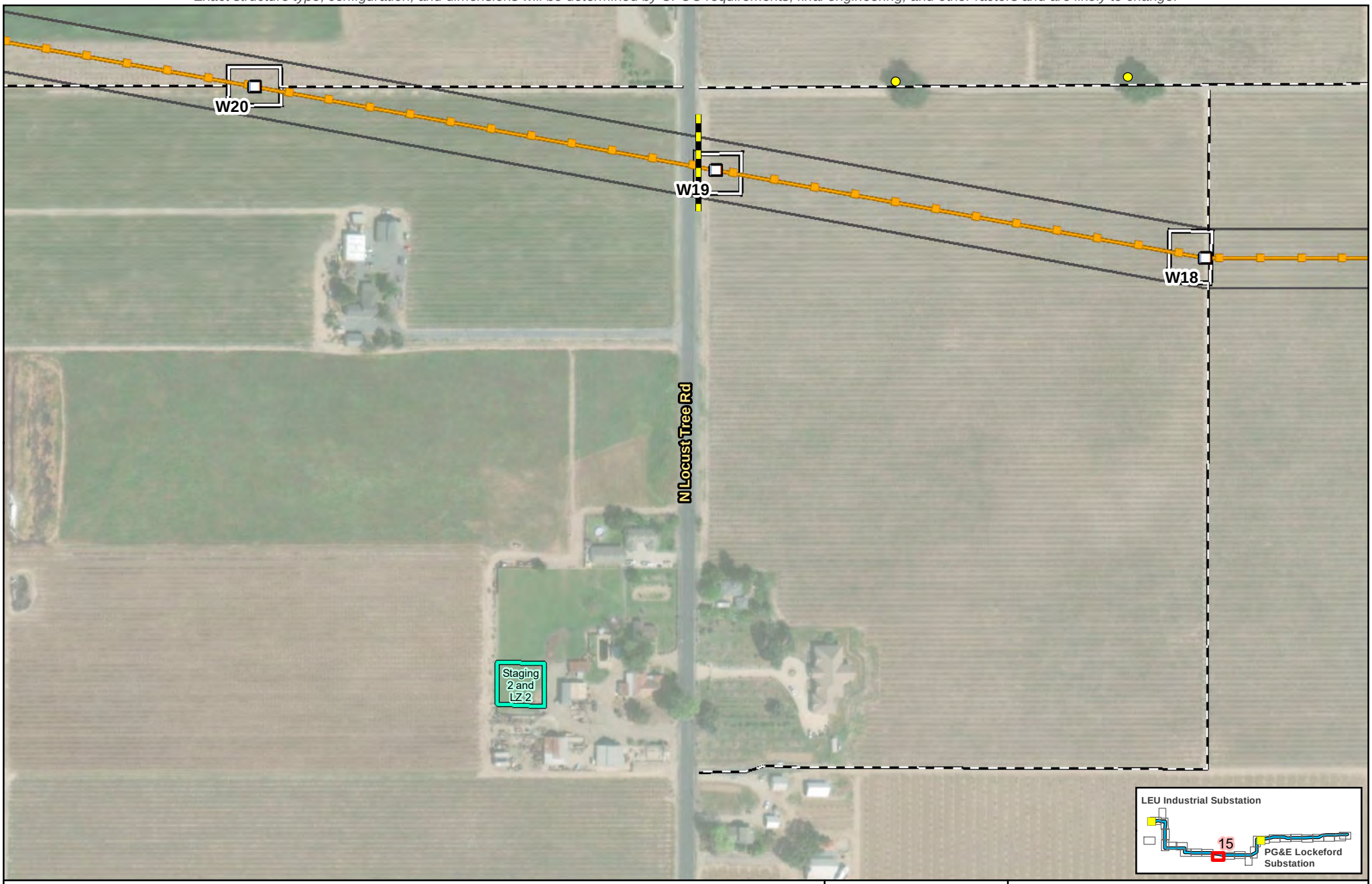


Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Work Area
- Potential Staging Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

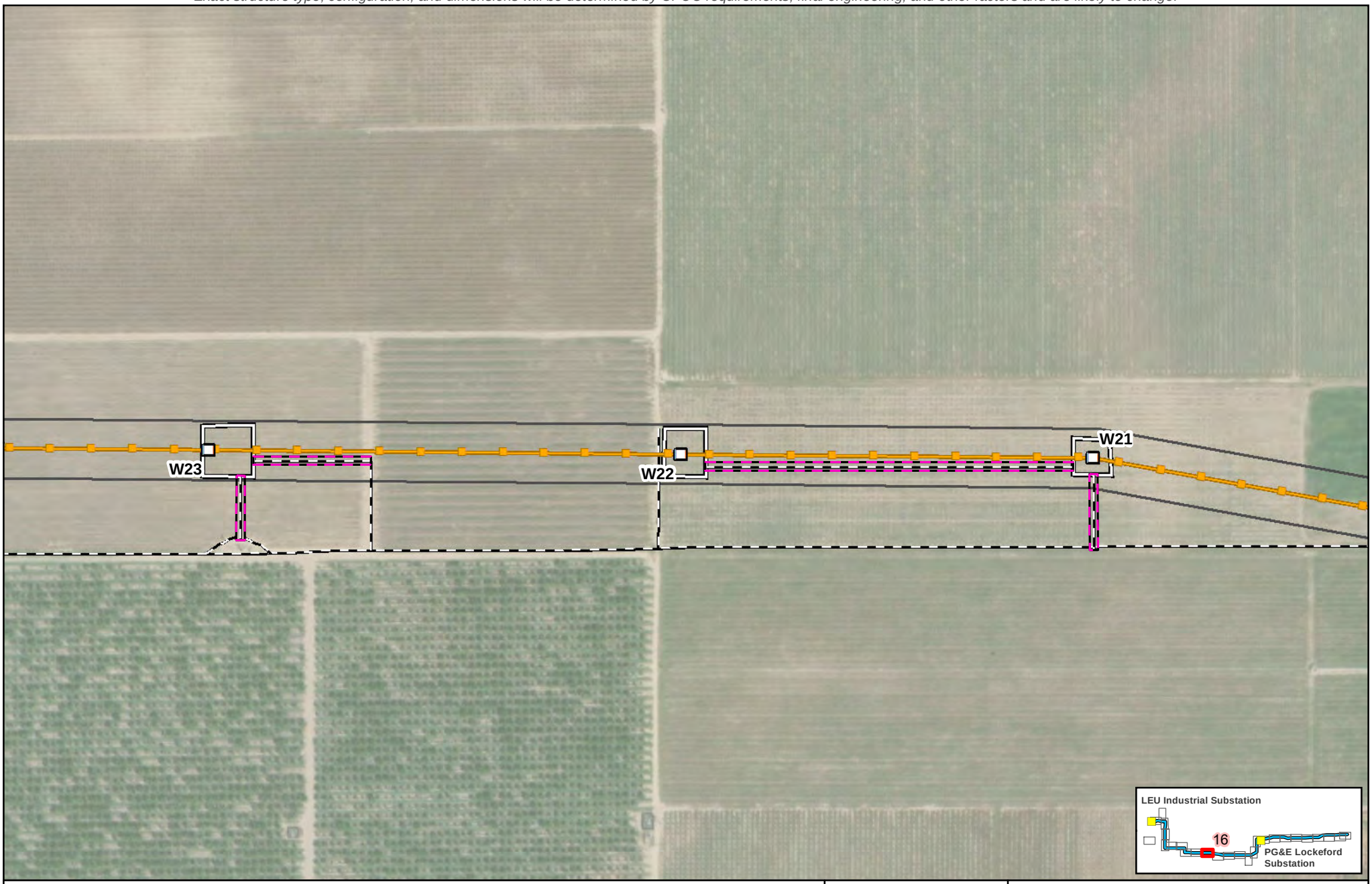
Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Crop removal
- Proposed Work Area

Source:
1) Esri World Imagery

N

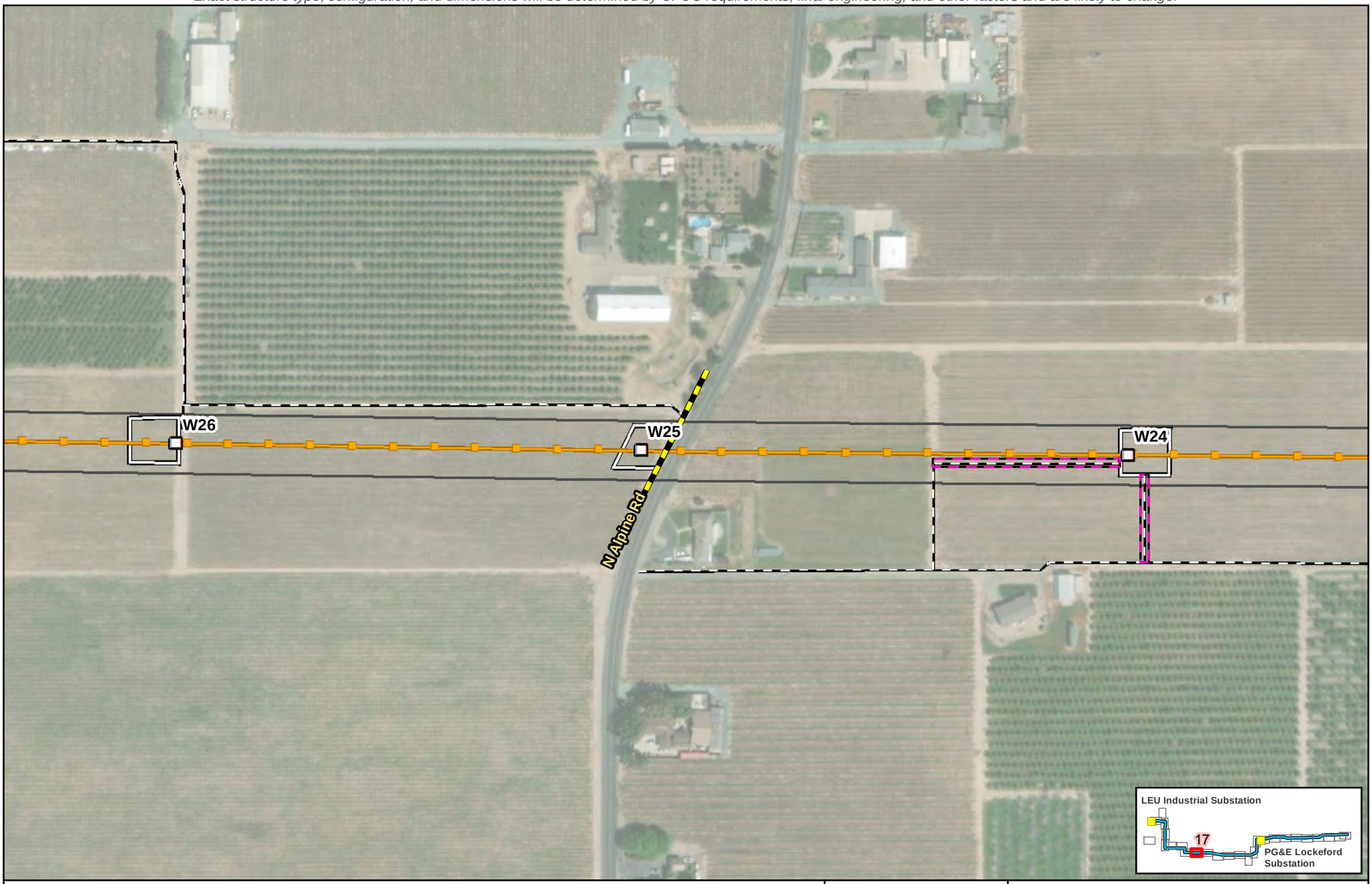
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 16 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- New Impact - Crop removal
- Proposed Work Area
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area

Source:
1) Esri World Imagery

N

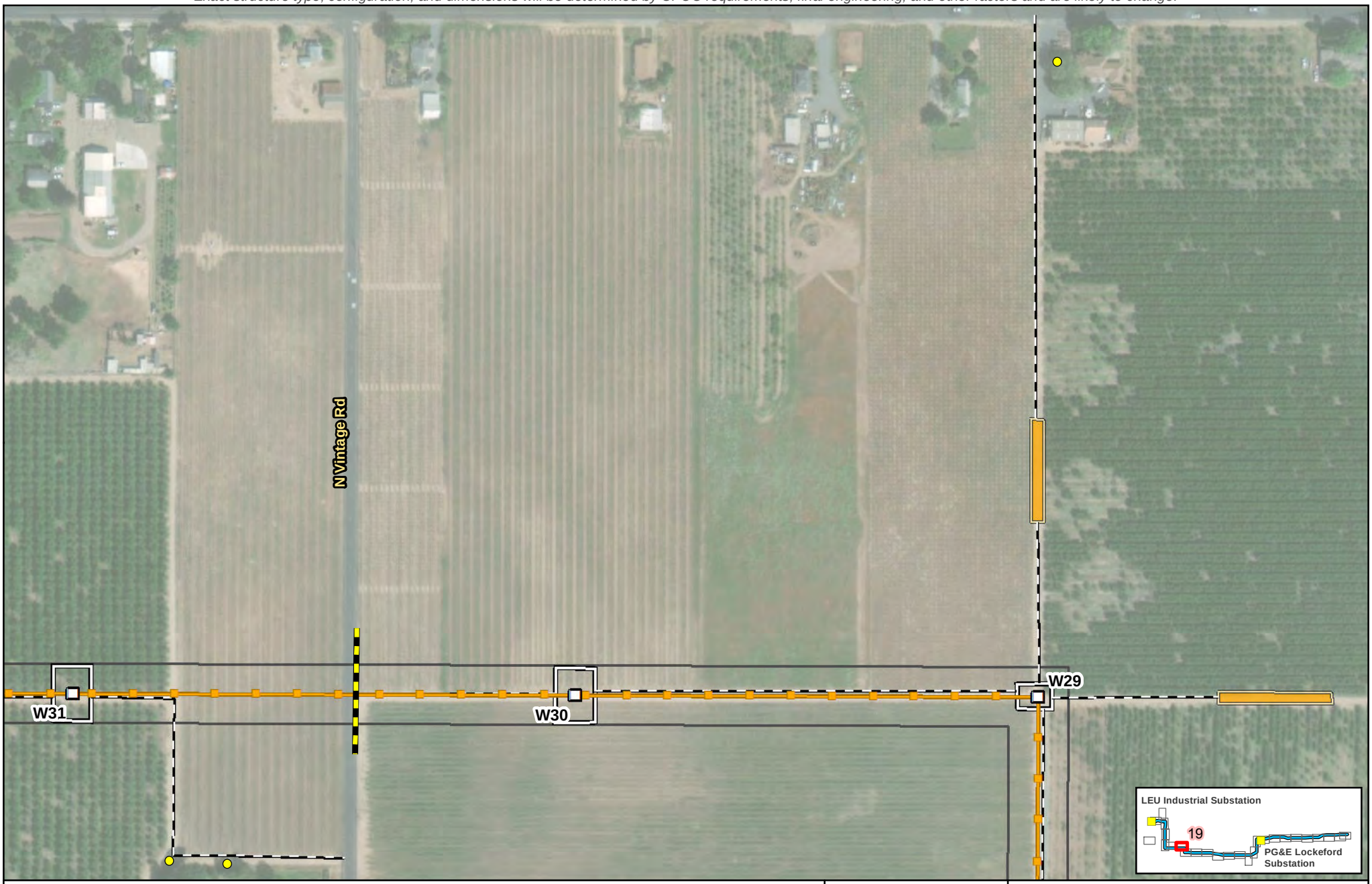
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 18 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- Proposed Work Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 19 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
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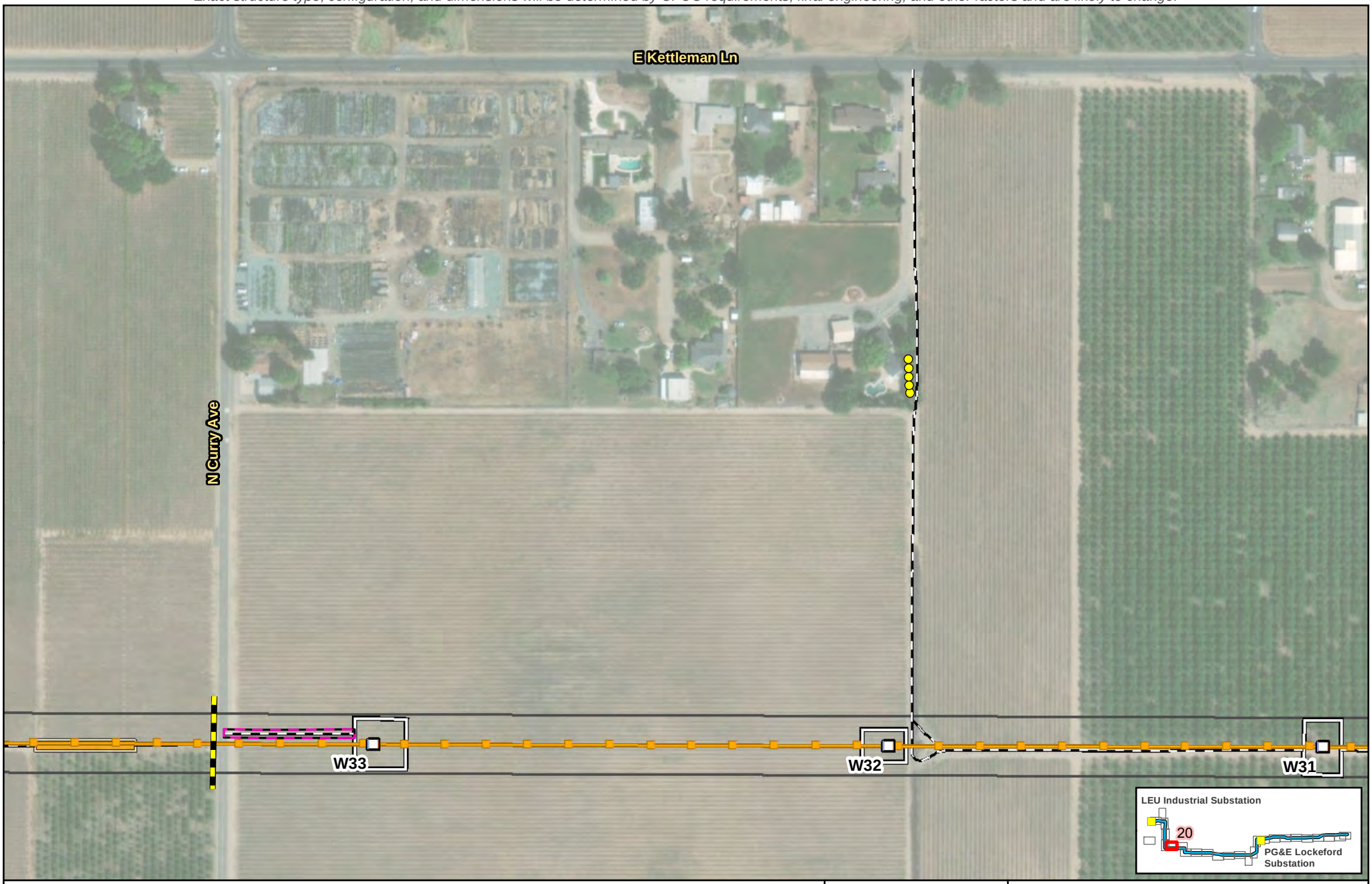

Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
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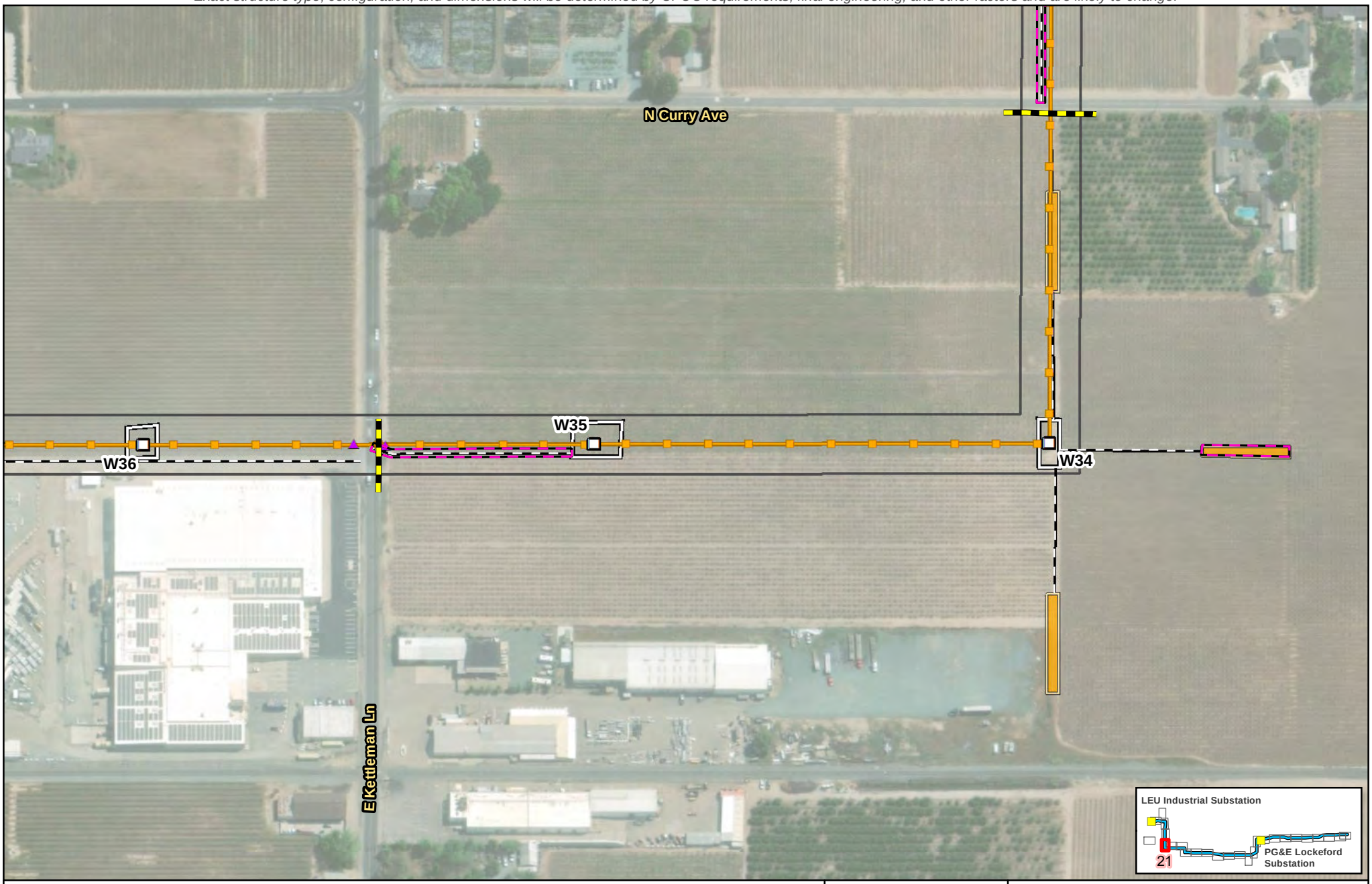


Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- Proposed Work Area
- Existing Line Crossing

Source:
1) Esri World Imagery

N

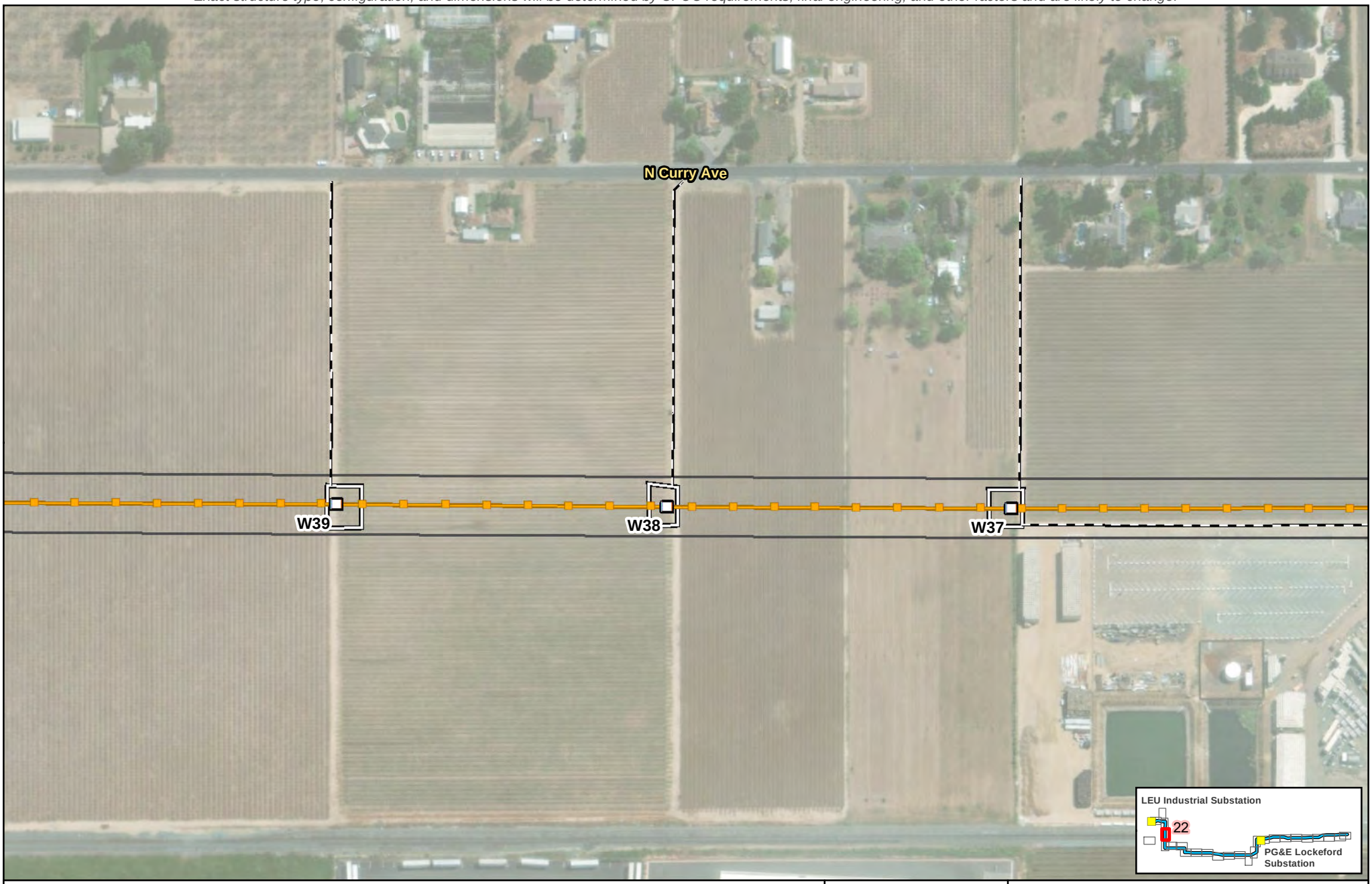
0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 21 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Work Area

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 22 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

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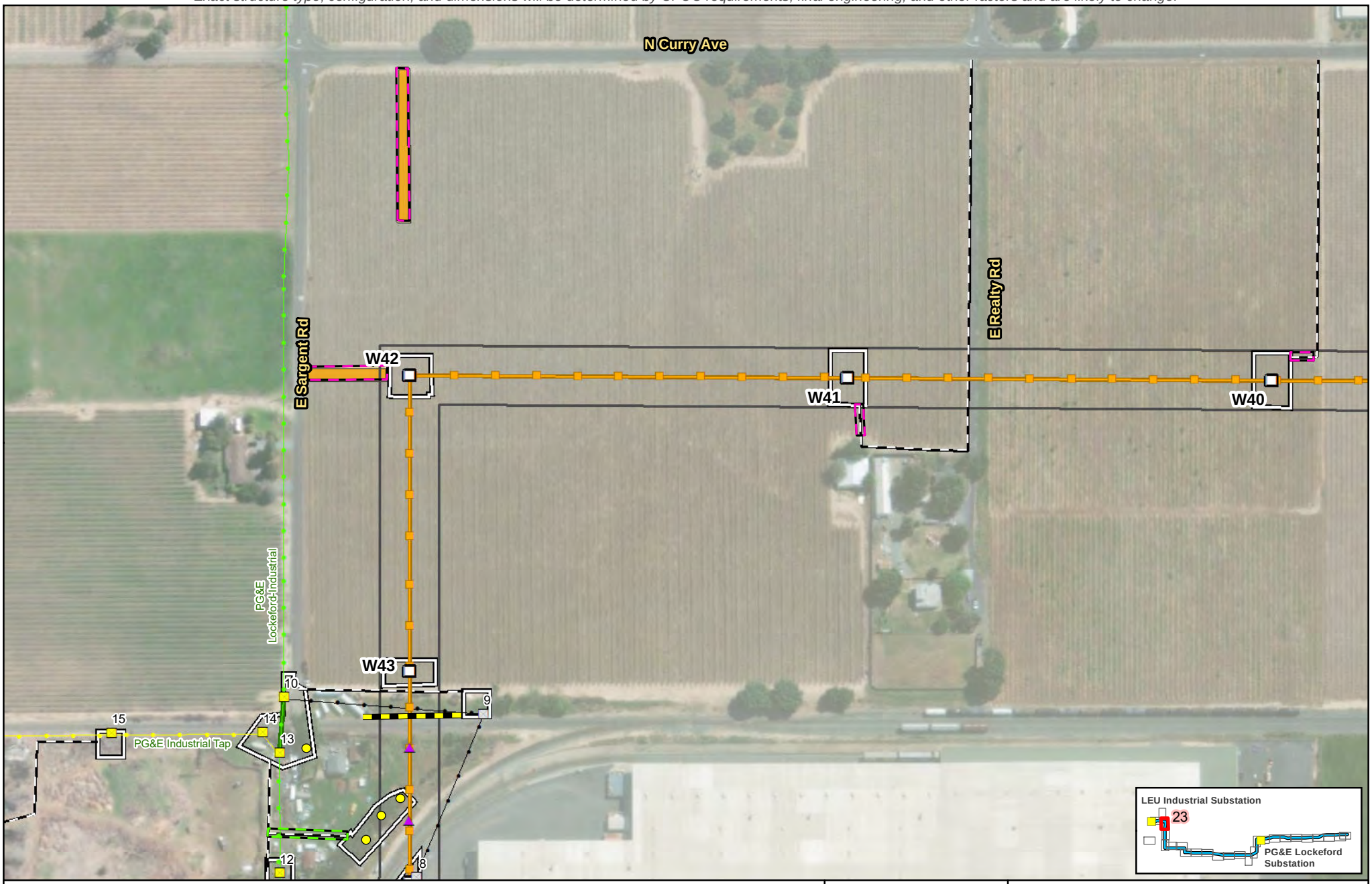
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E 230 kV ROW
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Pull Site
- New Impact - Crop removal
- New Impact - Overland
- Proposed Work Area
- Existing PG&E 60 kV Power Line
- New PG&E 60 kV Span
- Existing PG&E Distribution Line (60 kV portion removed)
- Existing PG&E 60 kV Power Line: Remove
- 60 kV Structure: Modify or Replace
- 60 kV Structure: Remove
- Potential Tree Trimming or Removal
- Existing Line Crossing

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
- Proposed Access Route
- Proposed Work Area
- Existing PG&E 60 kV Power Line
- Existing PG&E Distribution Line (60 kV portion removed)
- 60 kV Structure: Modify or Replace
- Existing PG&E 12 kV Distribution Pole
- New Horizontal Guy Wire

Source:
1) Esri World Imagery

N

0 100 Feet

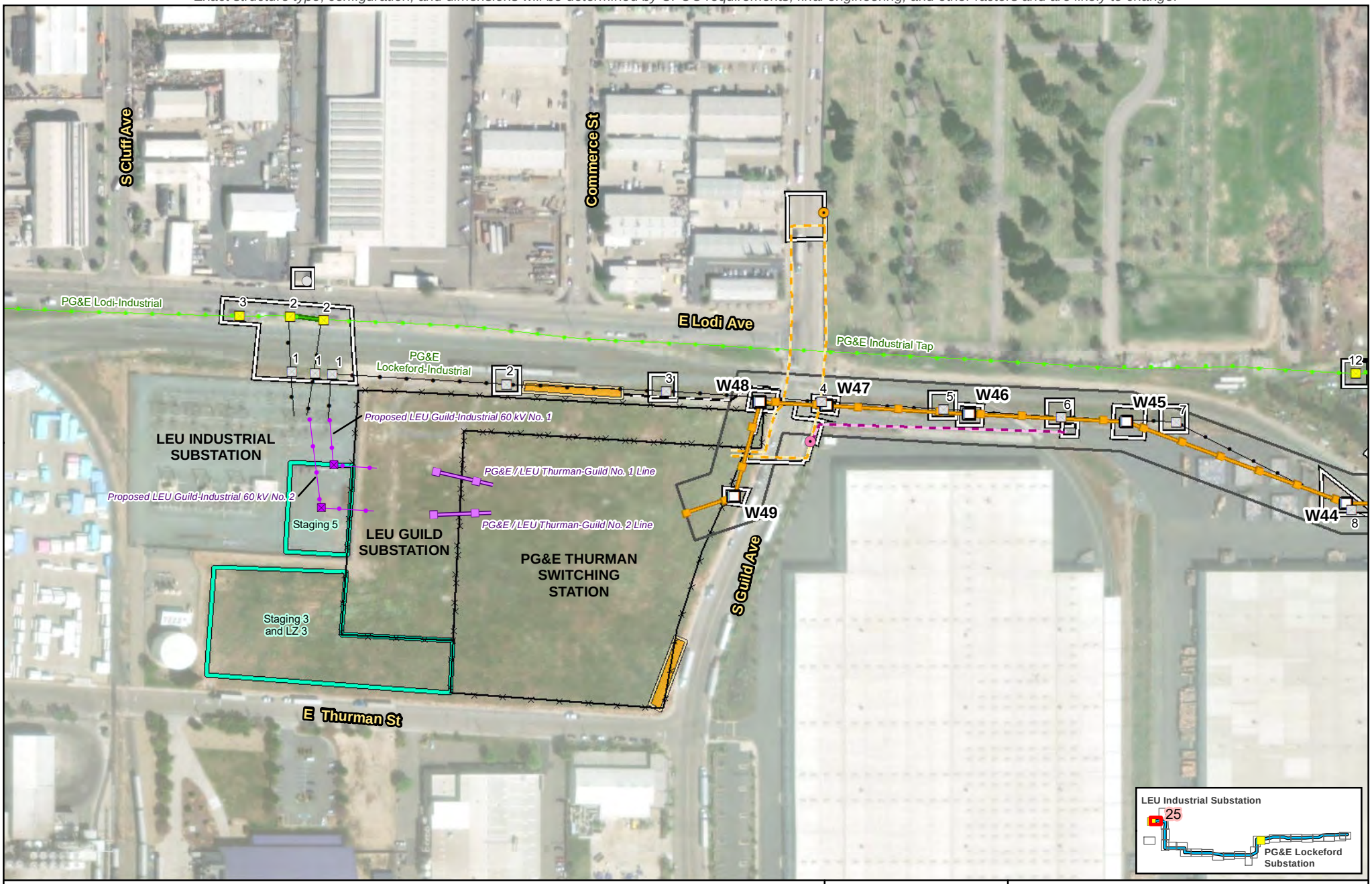
Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Proposed Structure
- PG&E New 230 kV Transmission Line
- Proposed PG&E / LEU Thurman-Guild 230 kV
- Proposed LEU Guild-Industrial 60 kV
- Proposed LEU 60 kV Pole
- Proposed PG&E 230 kV ROW
- Proposed Access Route
- Proposed Pull Site
- Proposed Work Area
- Proposed Fenceline
- Potential Staging Area
- Existing PG&E 60 kV Power Line
- New PG&E 60 kV Span
- Existing PG&E 60 kV Power Line: Remove
- 60 kV Structure: Modify or Replace
- 60 kV Structure: Remove
- Existing Guy Stub Pole: Remove
- Existing PG&E 12 kV Distribution Pole
- PG&E Thurman Switching Station Underground 12 kV Route Option
- Existing LEU 12 kV Distribution Pole
- Proposed LEU 12 kV Relocated Underground

Source:
1) Esri World Imagery

0 100 Feet

N

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\ProjectDescription\Figure3.5-1_Project_Components_220901.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend
Potential Staging Area

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 3.5-1
Project Components and Construction Elements
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

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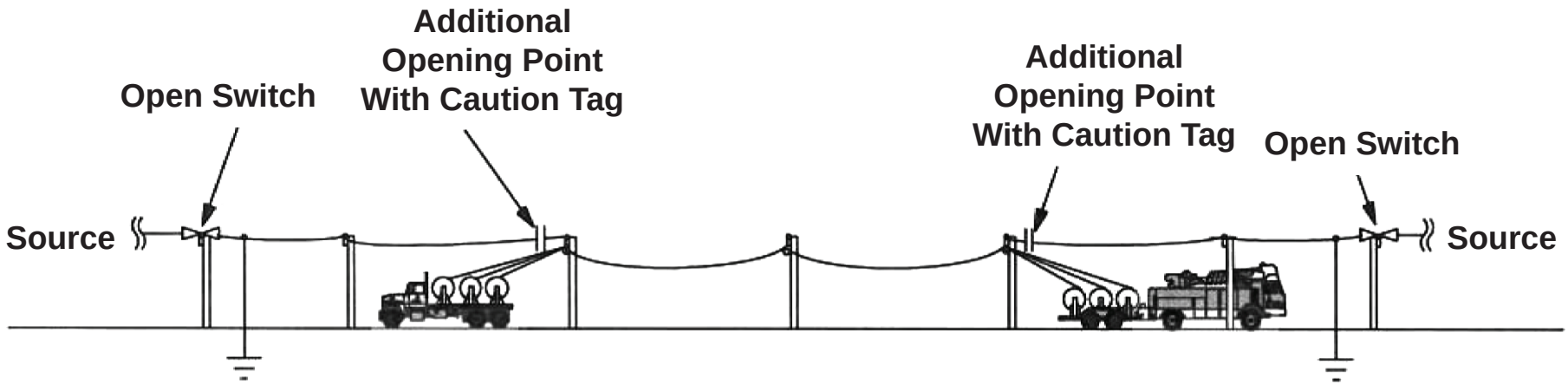
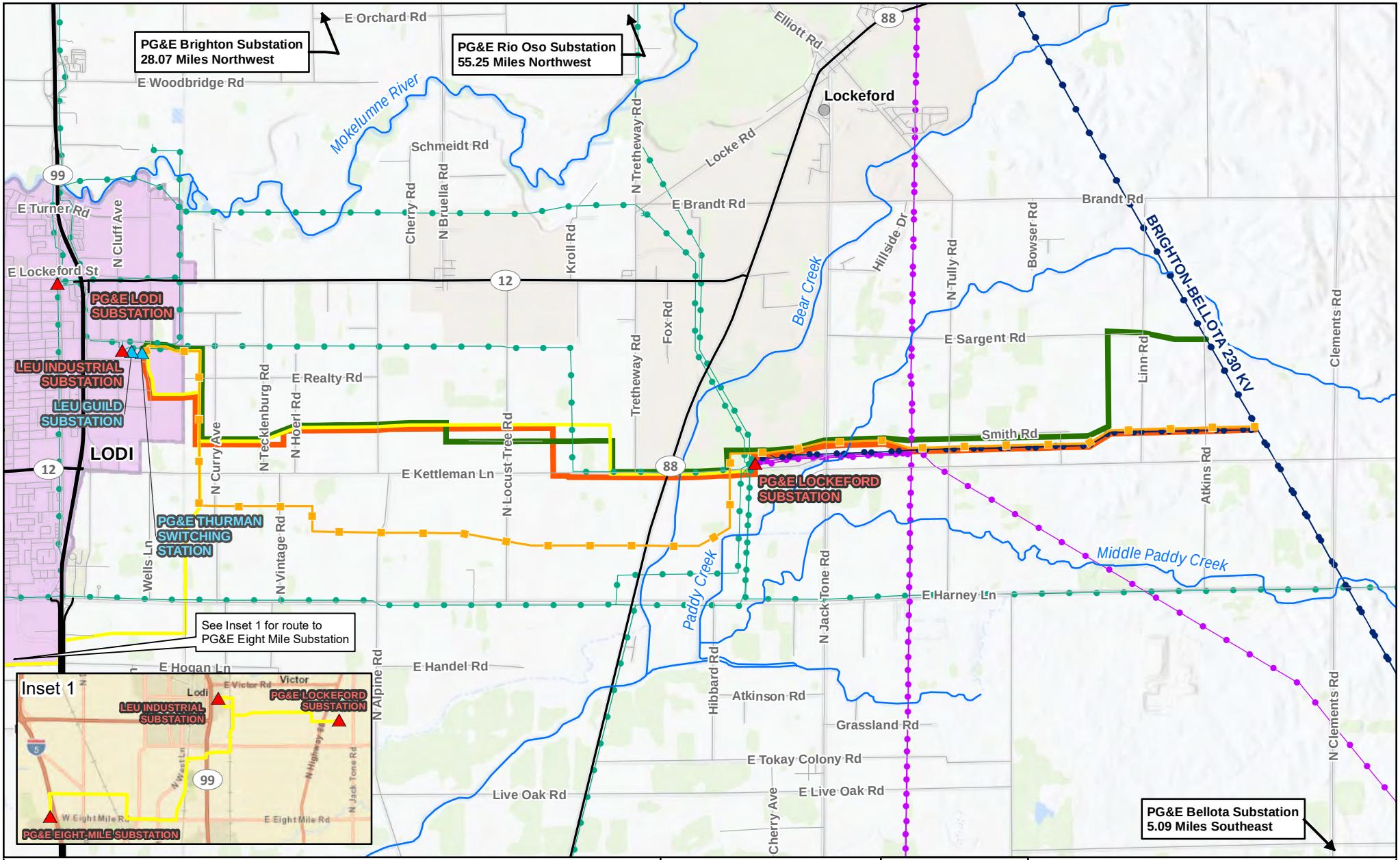


Figure 3.5-2
Typical Conductor Stringing
Northern San Joaquin 230 kV Transmission Project





Figure 3.5-3
Example Photos of Guard Structures
PG&E Northern San Joaquin 230 kV Transmission Project



Legend

- Exsting Substation
- New Substation/ Switch
- PG&E New 230 kV Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary

Existing PG&E Power and Transmission Lines

- 60
- 115
- 230

Project Route Alternatives

- Central Route
- Northern Route
- Lockeford-Lodi Area 230 kV Development (Eight-Mile Substation)

Source:
1) Base Map Source: ESRI World Topo

Scale:
1:65,000

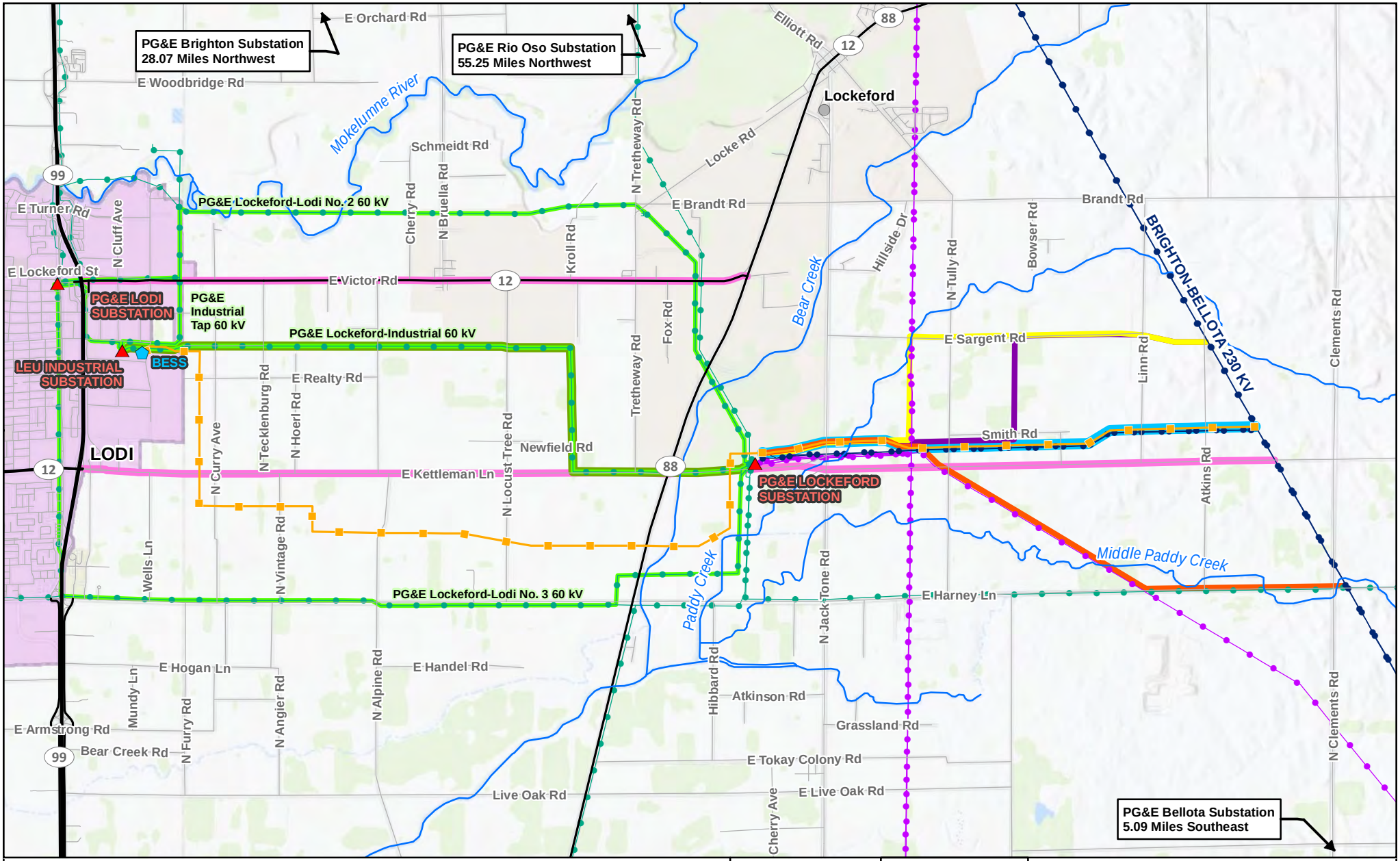
N

0 0.5 1 Miles

Project Location

FIGURE 4.1-1
Project Route Alternatives
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Alternatives\Figure4.2-1_221212.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- PG&E New 230 kV Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary

Existing PG&E Power and Transmission Lines

- 60
- 115
- 230

Project and Route Alternatives

- 60 kV Reconductoring
- 60 kV Upgrade to 115 kV
- Southern Route East
- Nothern Route East
- Tully Road Option

- Battery Energy Storage Solution (BESS)
- Hybrid BESS: New PG&E 230 kV Transmission Line
- Road Alignment Alternatives

Source:
1) Base Map Source: ESRI World Topo

N

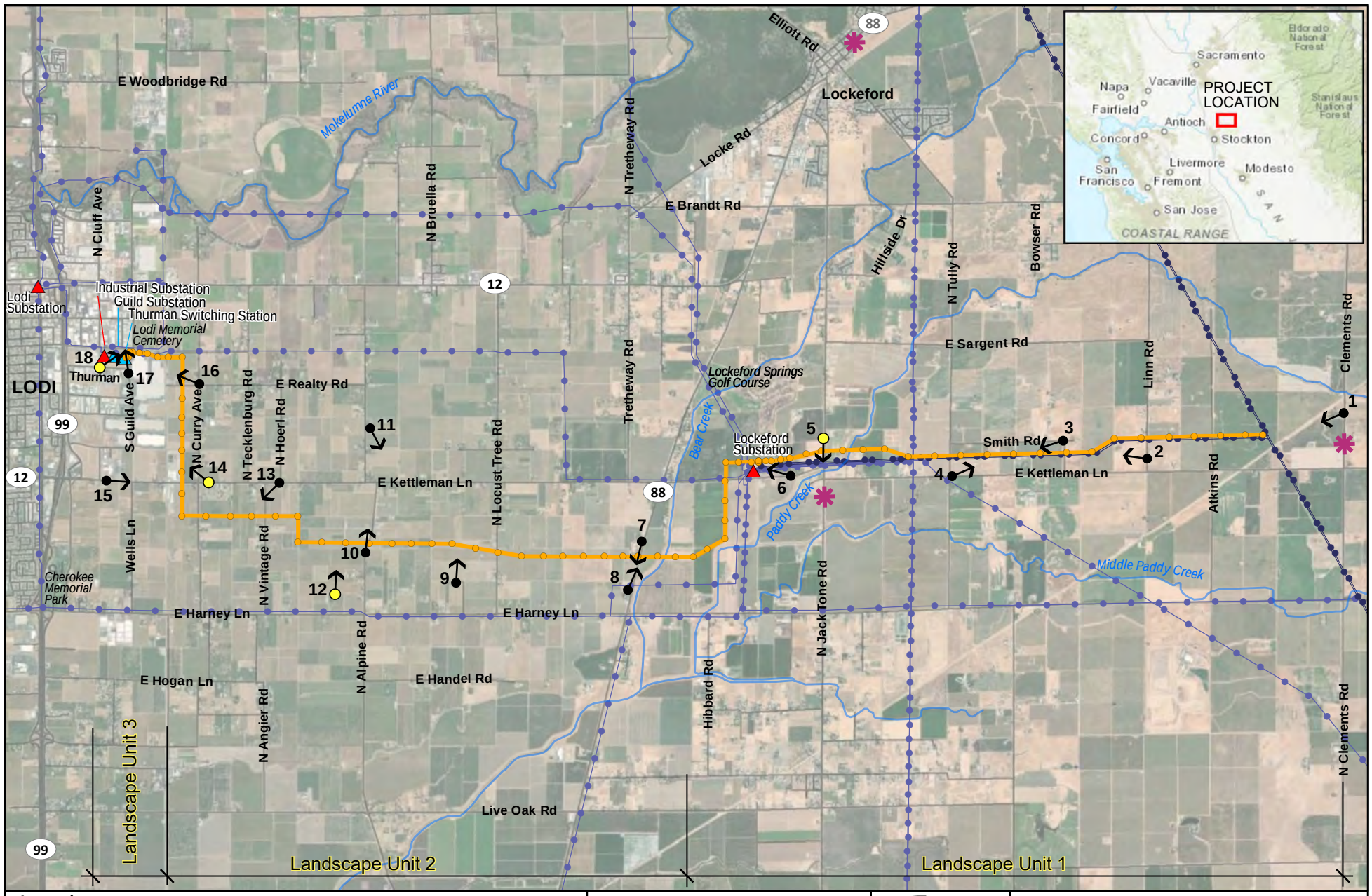
0 0.25 0.5
Miles

Scale: 1:65,000

Project Location

FIGURE 4.4-1
Rejected Project Alternatives
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Alternatives\Figure4.4-1_221228.mxd kgrant1 7/27/2023



Legend

- Northern San Joaquin 230 kV
- Existing Transmission Lines
- Existing Power Lines
- Existing Substation
- New Substation/ Switching Station
- 1 Photograph Viewpoint Location and Direction
- 5 KOP Simulation Viewpoint Location and Direction
- County Scenic Route

Base Map Source: ESRI 2021

0 0.5 1 Miles

N

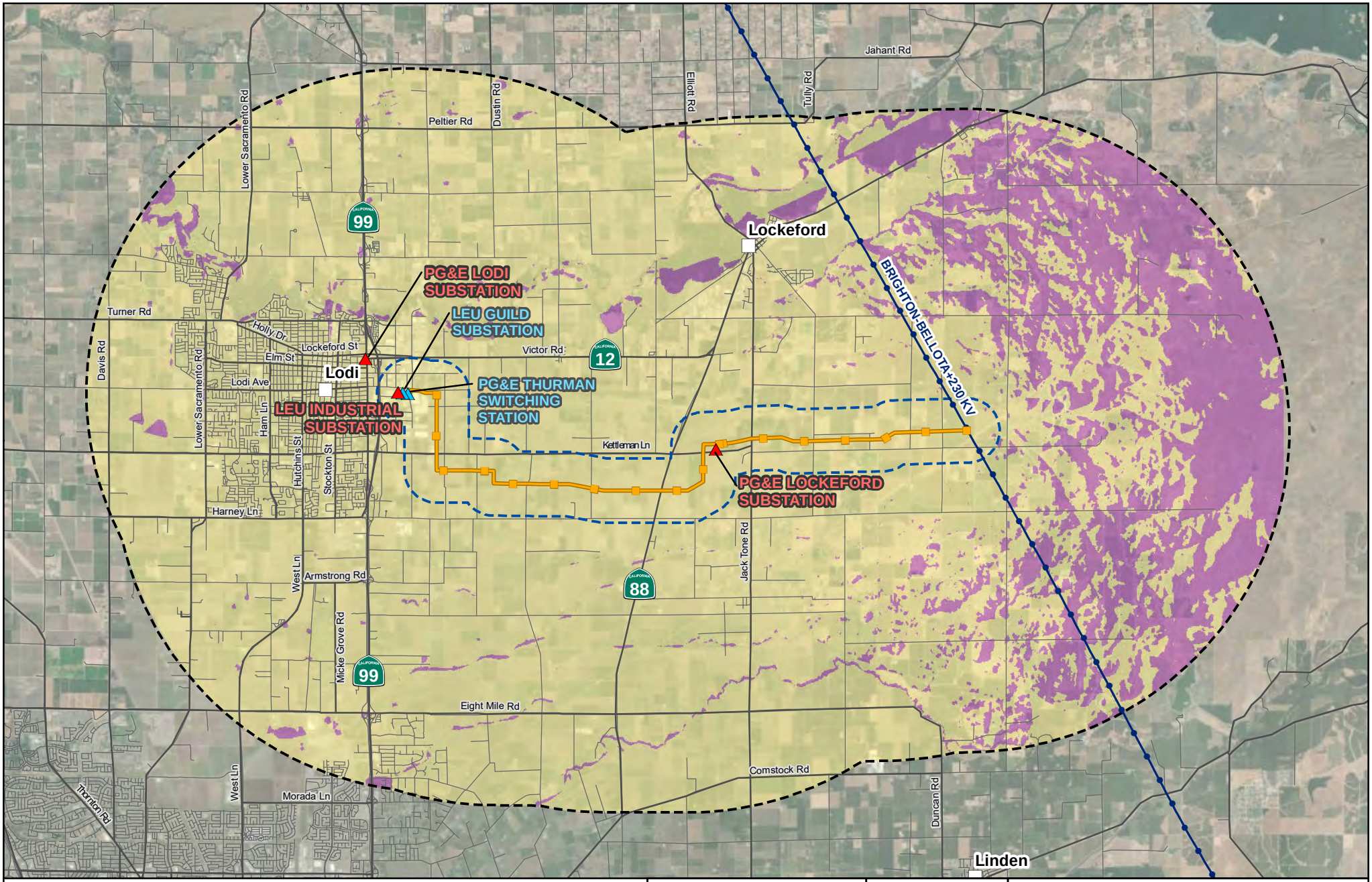
ENVIRONMENTAL VISION

Project Location

Figure 5.1-1a
Photograph Viewpoint Locations
Northern San Joaquin 230 kV Transmission Project

Jacobs

111521



Legend

- Existing Substation
- New Substation/ Switch
- Northern San Joaquin 230 kV
- Existing 230 kV Transmission Line

Potential Project Visibility

- Project Structures Not Visible
- Project Structures Potentially Visible

Distance Zones

- 0.5-mile Project Radius
- 5-mile Project Radius

Source:
1) ESRI World Imagery

N

0 1 2 Miles

Project Location

FIGURE 5.1-1b
Viewshed Analysis
Northern San Joaquin 230 kV Transmission Project



Existing view from North Jack Tone Road near East Kettleman Lane looking south (KOP 5)

Refer to Figure 5.1-1a for viewpoint location

Figure 5.1-3a
Existing View - Jack Tone Road
Northern San Joaquin 230 kV Transmission Project

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Visual simulation of proposed project (KOP 5)

Refer to Figure 5.1-1a for viewpoint location

ENVIRONMENTAL VISION
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Figure 5.1-3b
Visual Simulation - Jack Tone Road
Northern San Joaquin 230 kV Transmission Project



Existing view from 12. Mettler Family Vineyards at East Harney Lane looking north (KOP 12)

Refer to Figure 5.1-1a for viewpoint location

Figure 5.1-4a
Existing View - Mettler Vineyards
Northern San Joaquin 230 kV Transmission Project

ENVIRONMENTAL VISION
111521



Visual simulation of proposed project (KOP 12)

Refer to Figure 5.1-1a for viewpoint location

ENVIRONMENTAL VISION
111521

Figure 5.1-4b
Visual Simulation - Mettler Vineyards
Northern San Joaquin 230 kV Transmission Project



Existing view from East Kettleman Lane near North Curry Avenue looking northwest (KOP 14)

Refer to Figure 5.1-1a for viewpoint location

Figure 5.1-5a
Existing View - Kettleman Lane
Northern San Joaquin 230 kV Transmission Project

ENVIRONMENTAL VISION
111521



Visual simulation of proposed project (KOP 14)

Refer to Figure 5.1-1a for viewpoint location

ENVIRONMENTAL VISION
111521

Figure 5.1-5b
Visual Simulation - Kettleman Lane
Northern San Joaquin 230 kV Transmission Project



Existing view from East Thurman Road looking northeast (KOP 18)

Refer to Figure 5.1-1a for viewpoint location

Figure 5.1-6a
Existing View - Thurman Road
Northern San Joaquin 230 kV Transmission Project

ENVIRONMENTAL VISION
111521

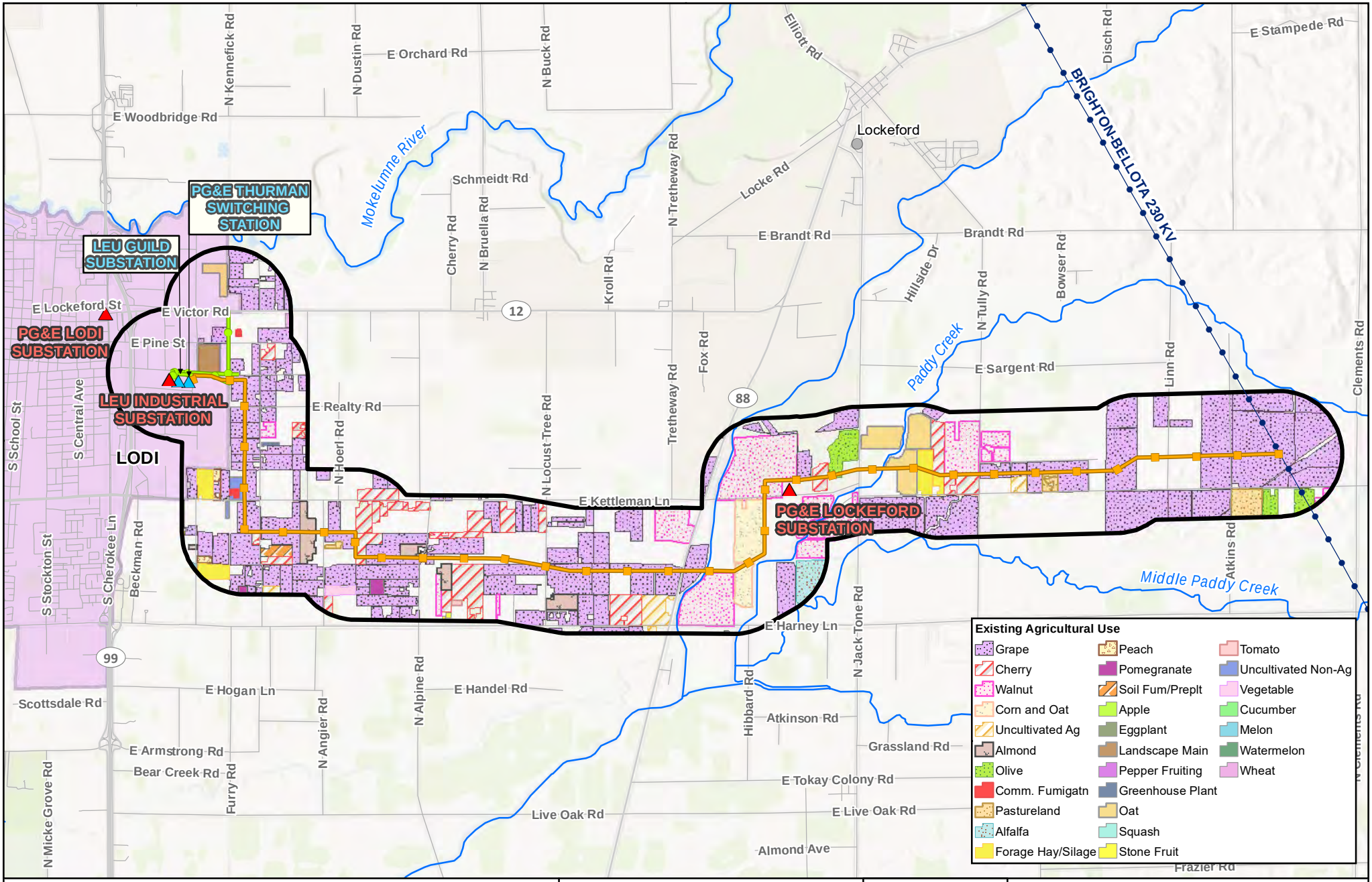


Visual simulation of proposed project (KOP 18)

Refer to Figure 5.1-1a for viewpoint location

ENVIRONMENTAL VISION
111521

Figure 5.1-6b
Visual Simulation - Thurman Road
Northern San Joaquin 230 kV Transmission Project



Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Half-mile Radius Around Project Components
- City Boundary
- State Highway
- Local Road
- River/Stream

Source:
1) San Joaquin County Office of the Agricultural Commissioner 2021 agricultural crop data

0 1 Miles

N

Scale: 1:65,000

Project Location

FIGURE 5.2-1
Agricultural Resources
Northern San Joaquin 230 kV Transmission Project

\\Dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Agricultural\Figure5.2-1_Agricultural_Resources.mxd kgrant1 7/27/2023

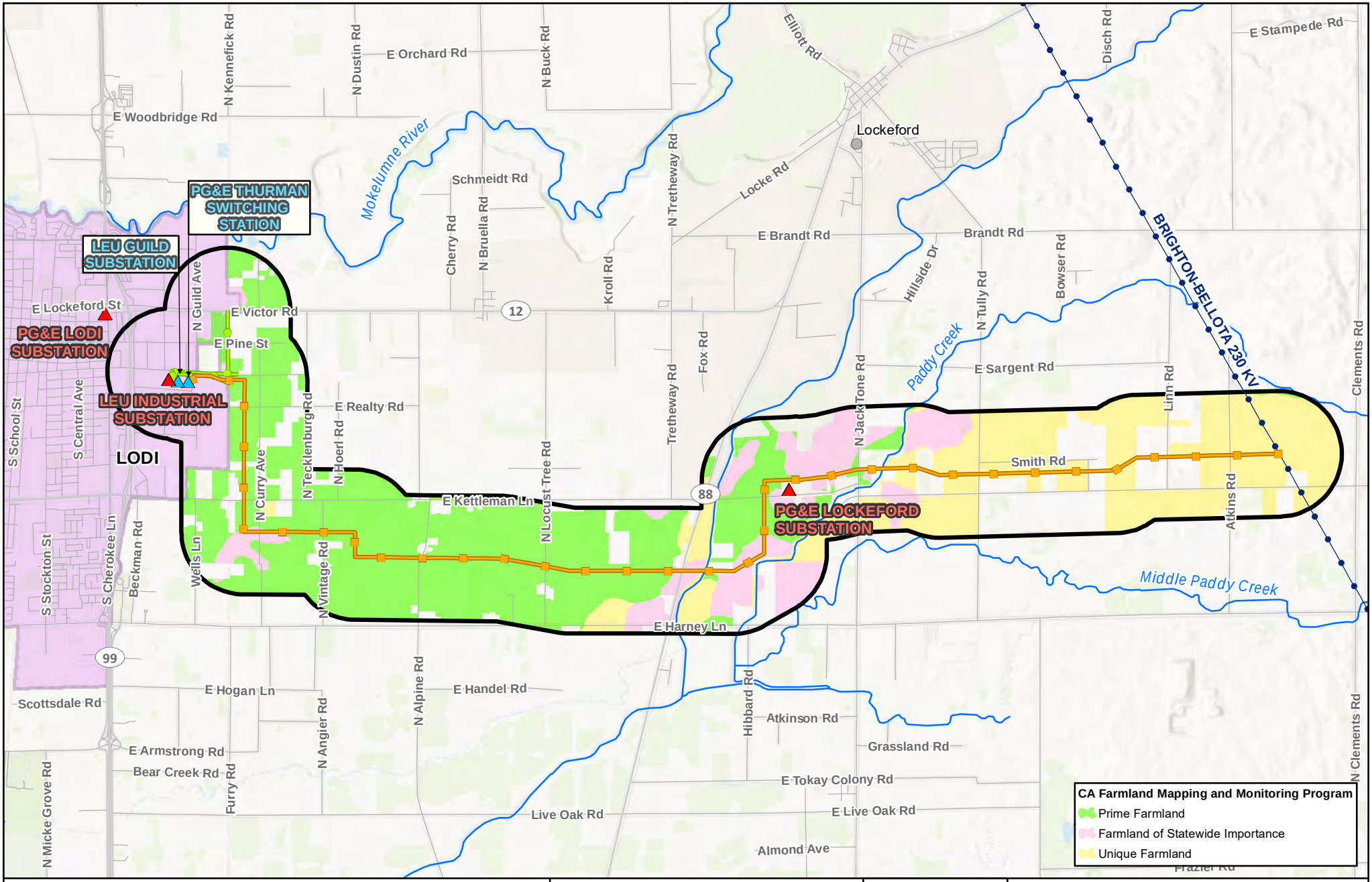
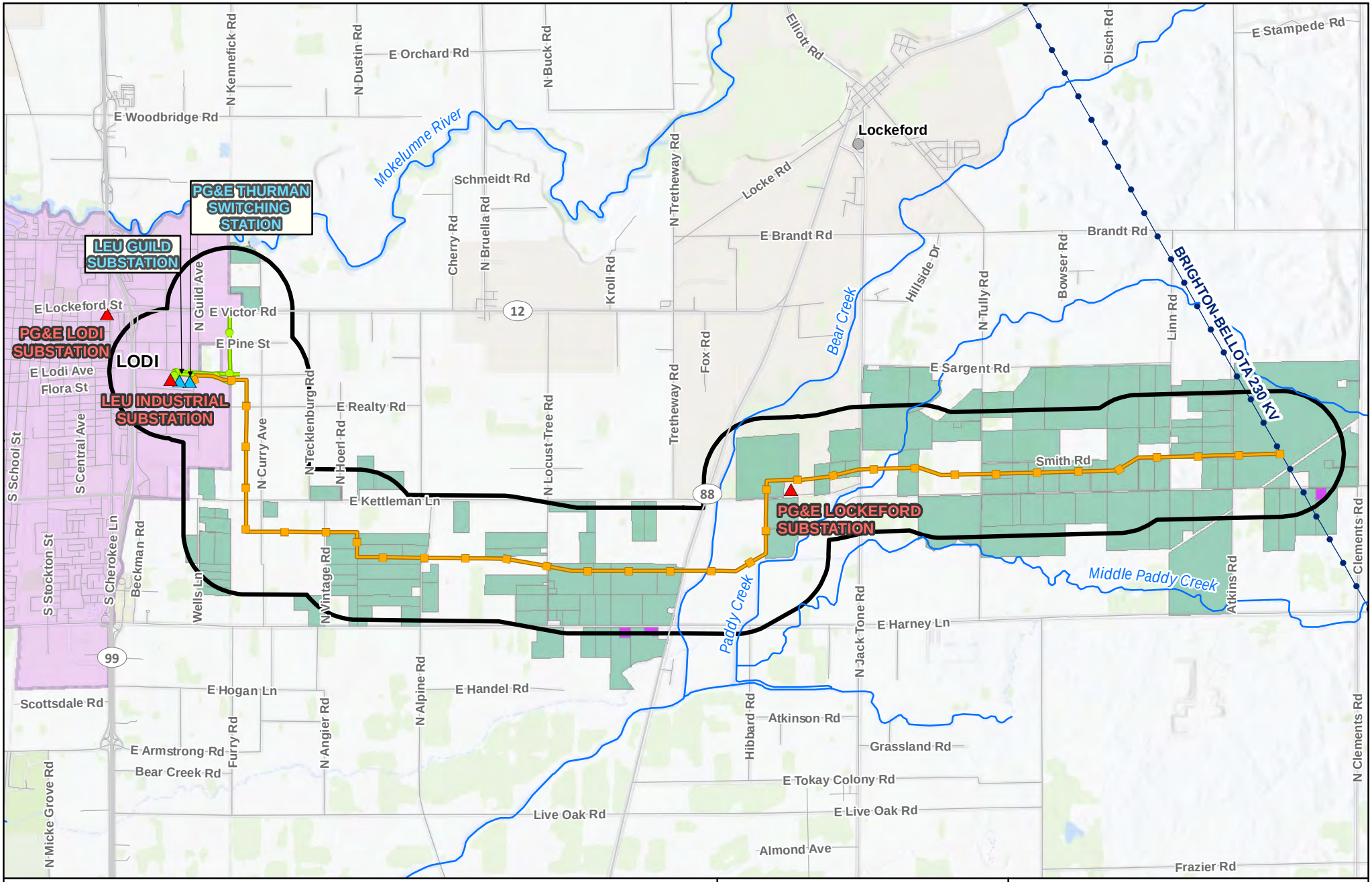


FIGURE 5.2-2
Important Farmland
Northern San Joaquin 230 kV Transmission Project

\\Dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Agricultural\Figure5.2-2_Important_Farmland.mxd kgrant1 7/27/2023



Legend

- New Substation/Switch
- Existing Substation
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Half-mile Radius Around Project Components
- Williamson Act (WA) Parcel
- WA Parcel (Non-renewal)
- City Boundary
- State Highway
- Local Road
- River/Stream

Sources:
1) Base Map Source: ESRI World Topo
2) San Joaquin County Assessor, 2021

N

0 0.5 1 Miles

Scale: 1:65,000

FIGURE 5.2-3
Williamson Act Parcels Map
Northern San Joaquin 230 kV Transmission Project

PG&E

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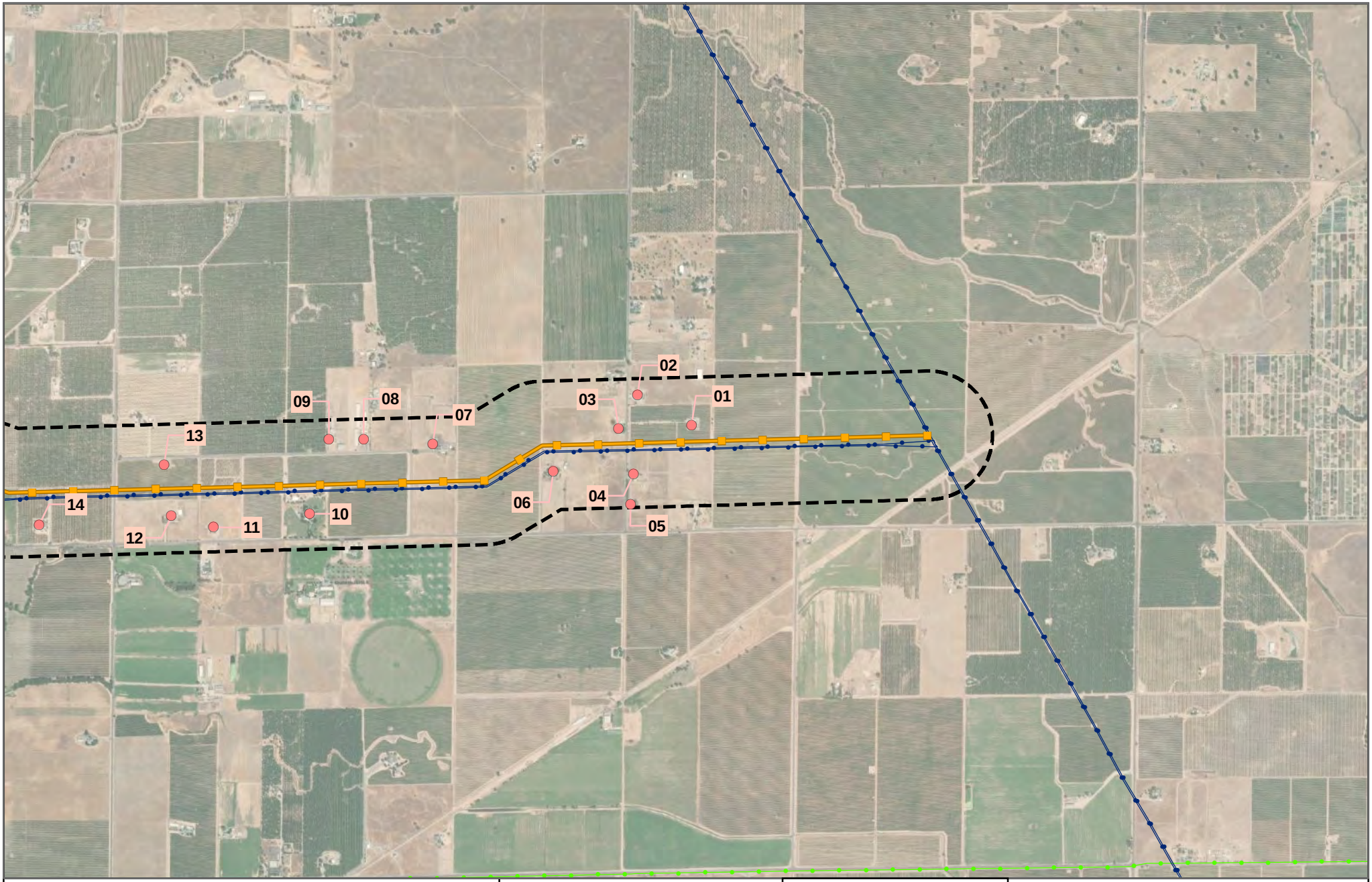

Legend

- PG&E New 230 kV Transmission Line
- Existing 230 kV Transmission Line
- Existing 60 kV Power Line
- 1,000-foot Radius Around Alignment

Sensitive Receptors

- Residential

Source:
1) ESRI World Imagery

0 1,000 2,000 Feet

N

Scale:
1:24,000

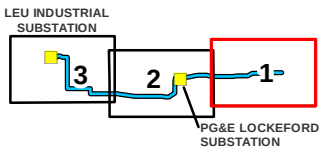

FIGURE 5.3-1
Sensitive Receptor Locations
Northern San Joaquin 230 kV Transmission Project

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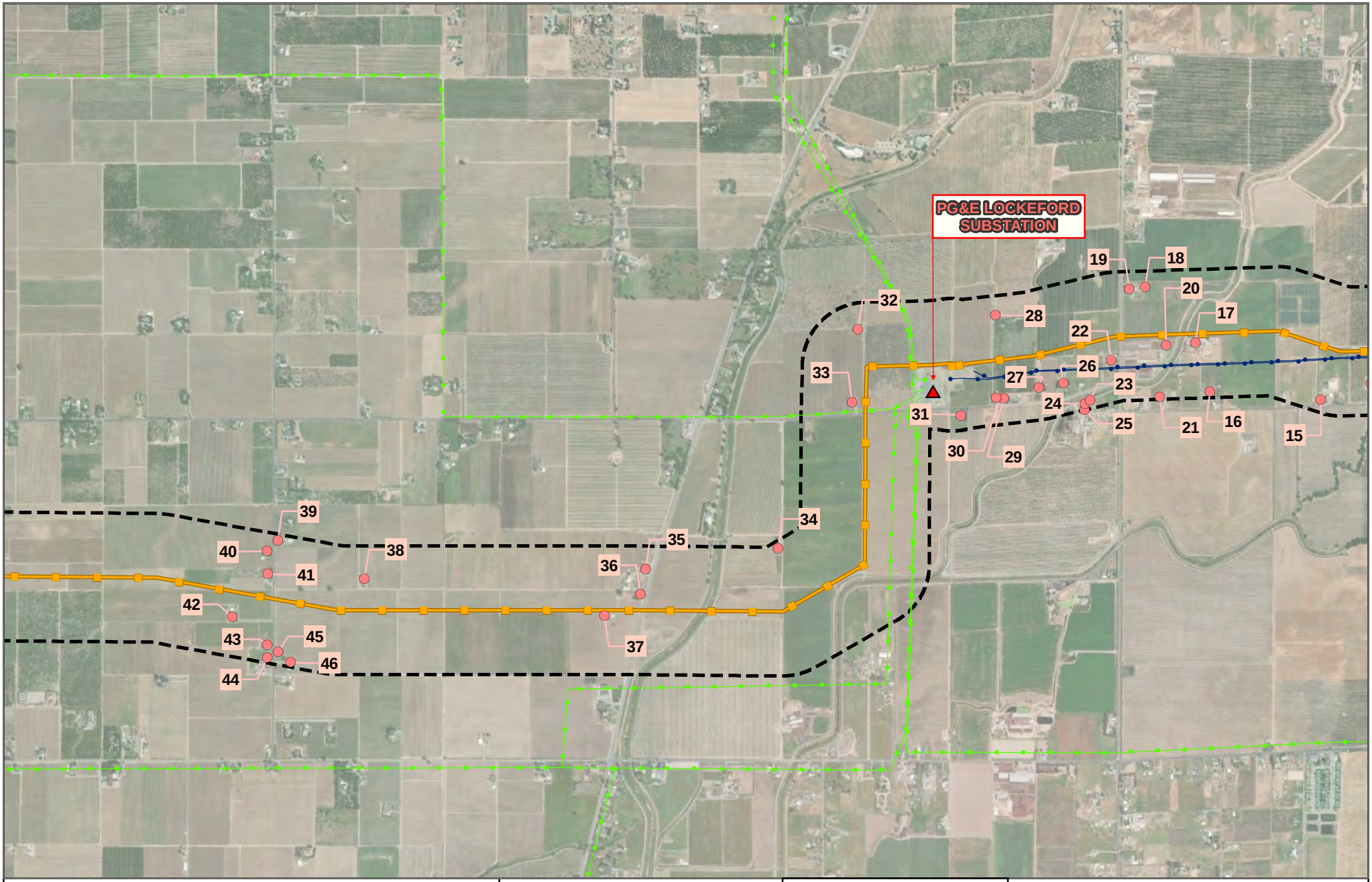

FIGURE 5.3-1
Sensitive Receptor Locations
Northern San Joaquin 230 kV Transmission Project

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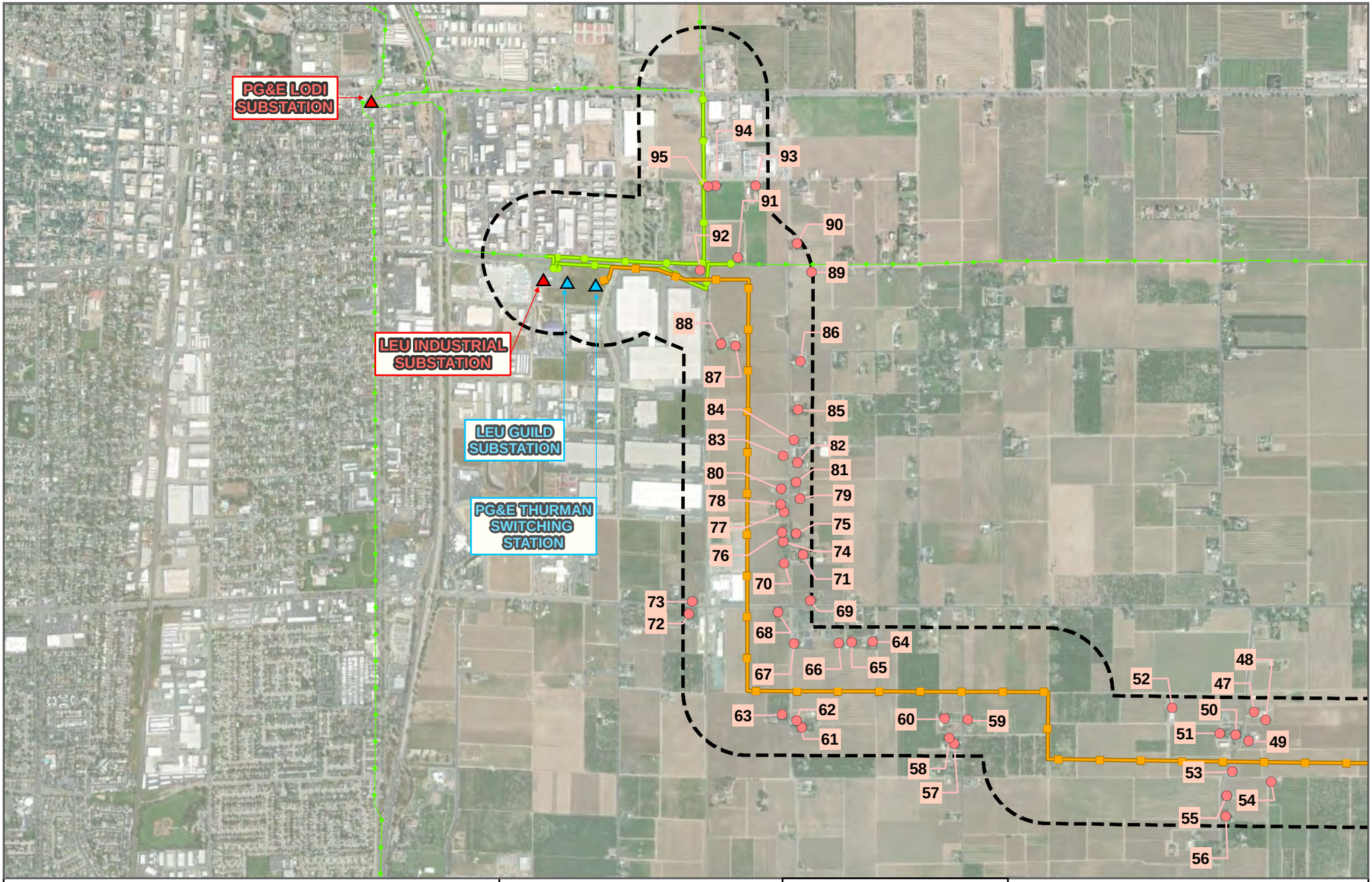

Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line Modification
- Existing 60 kV Power Line
- 1,000-foot Radius Around Alignment

Sensitive Receptors

- Residential

Source:
1) ESRI World Imagery

0 1,000 2,000 Feet

N

Scale: 1:24,000

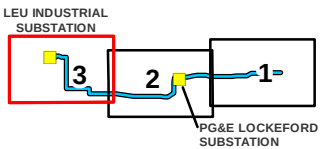

FIGURE 5.3-1
Sensitive Receptor Locations
Northern San Joaquin 230 kV Transmission Project

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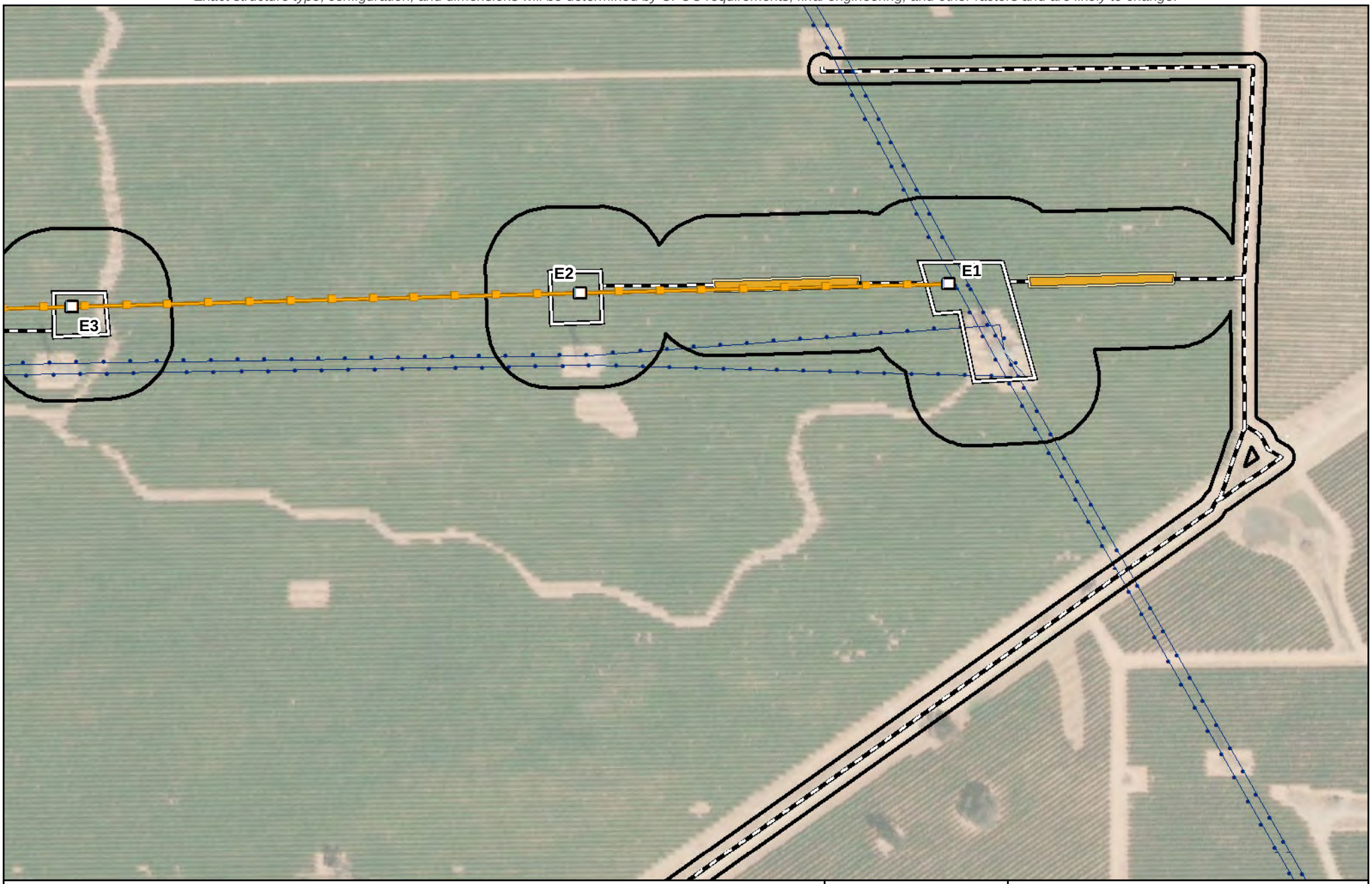
Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.

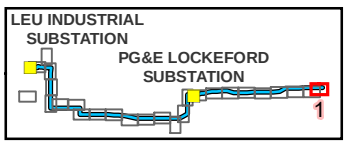


Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area



Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

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Legend

- Biological Study Area (387.06 acres)
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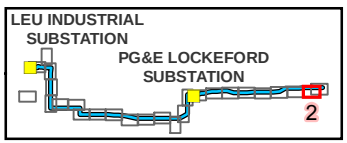
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area



Source:
1) Esri World Imagery

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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

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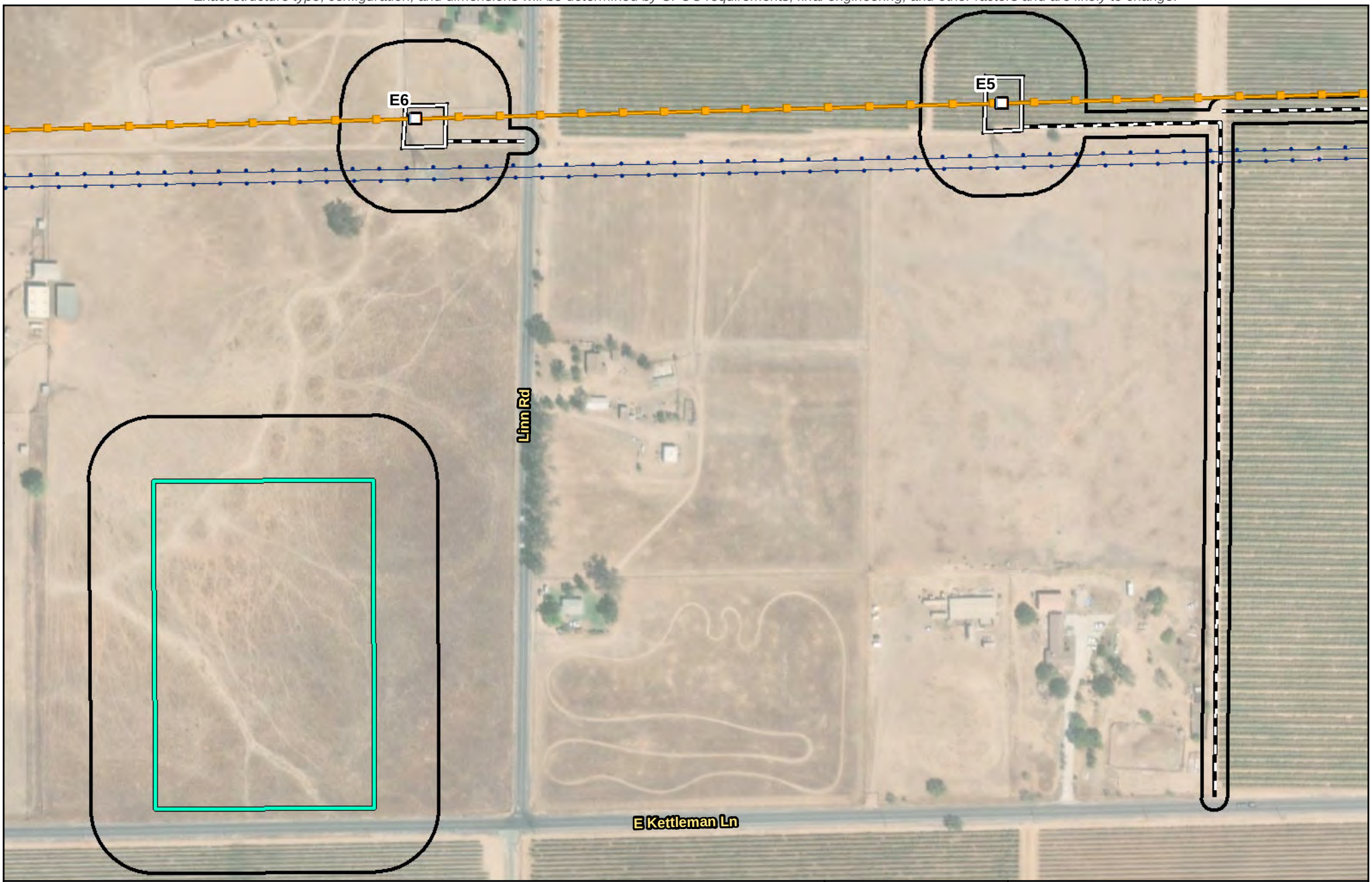

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

LEU INDUSTRIAL SUBSTATION
PG&E LOCKEFORD SUBSTATION
3

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
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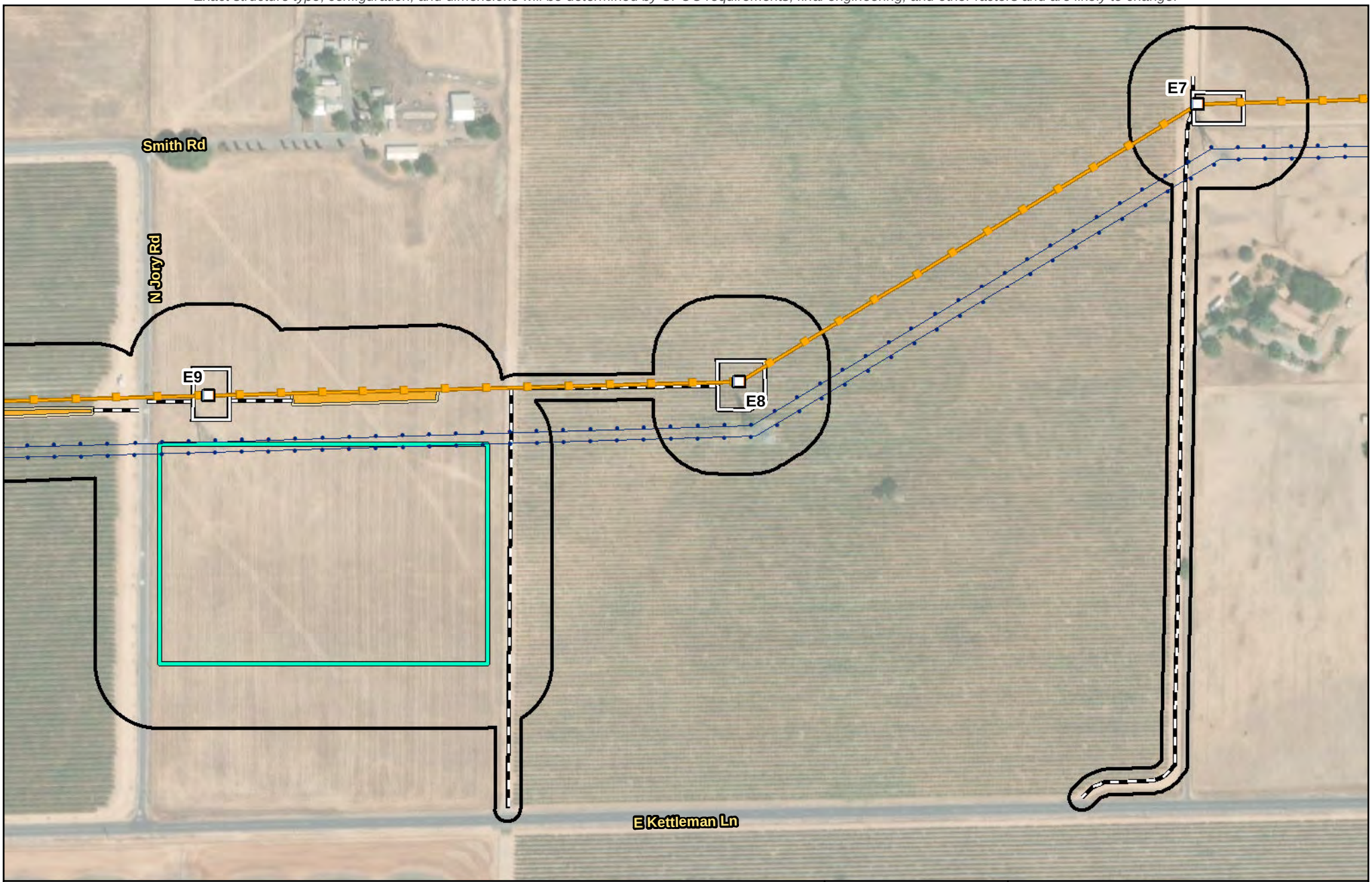

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

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- Proposed Pull Site
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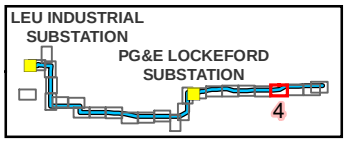
- Proposed Staging Area



Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

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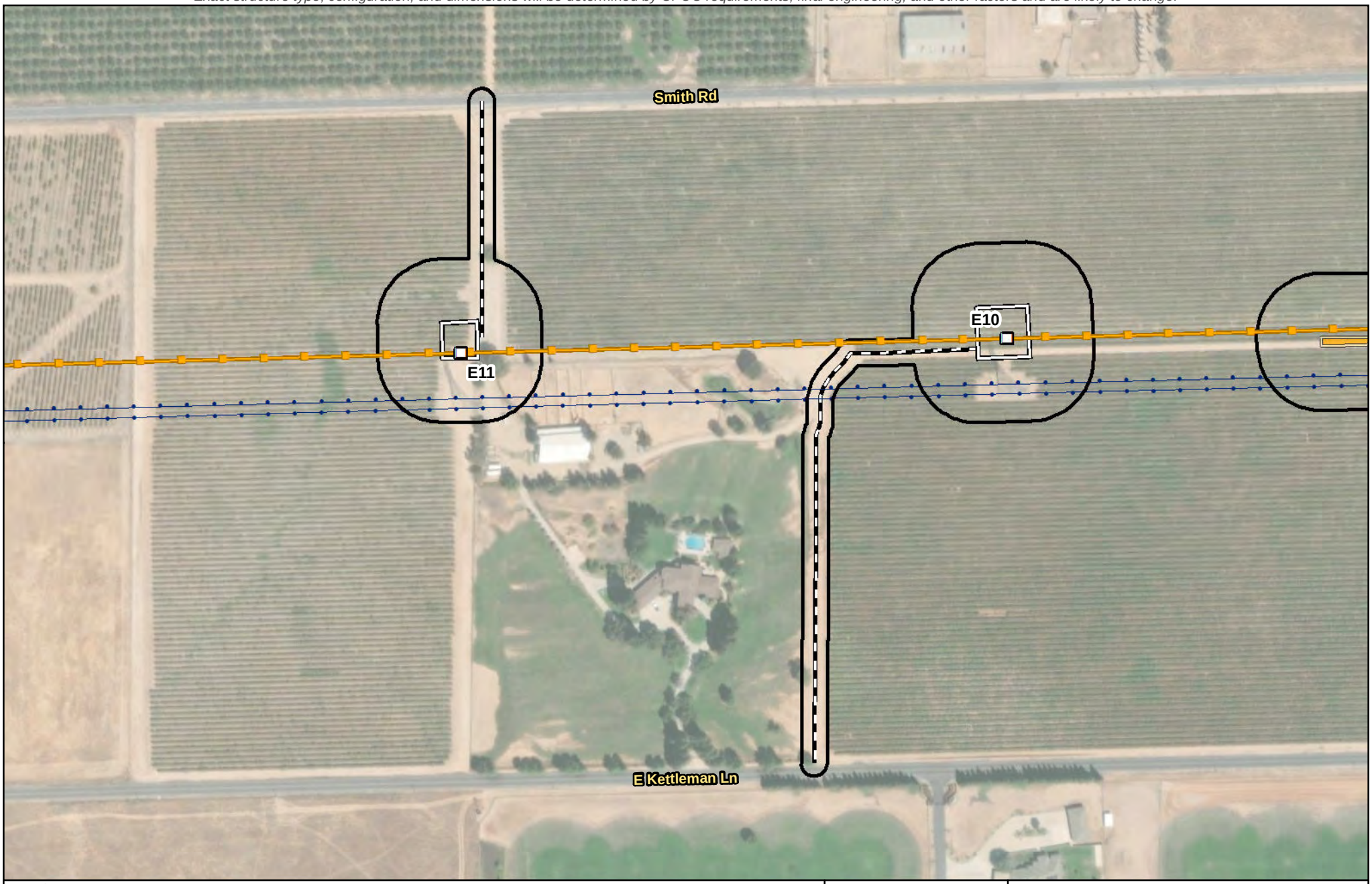

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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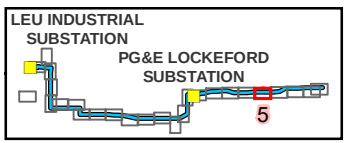
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area



Source:
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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

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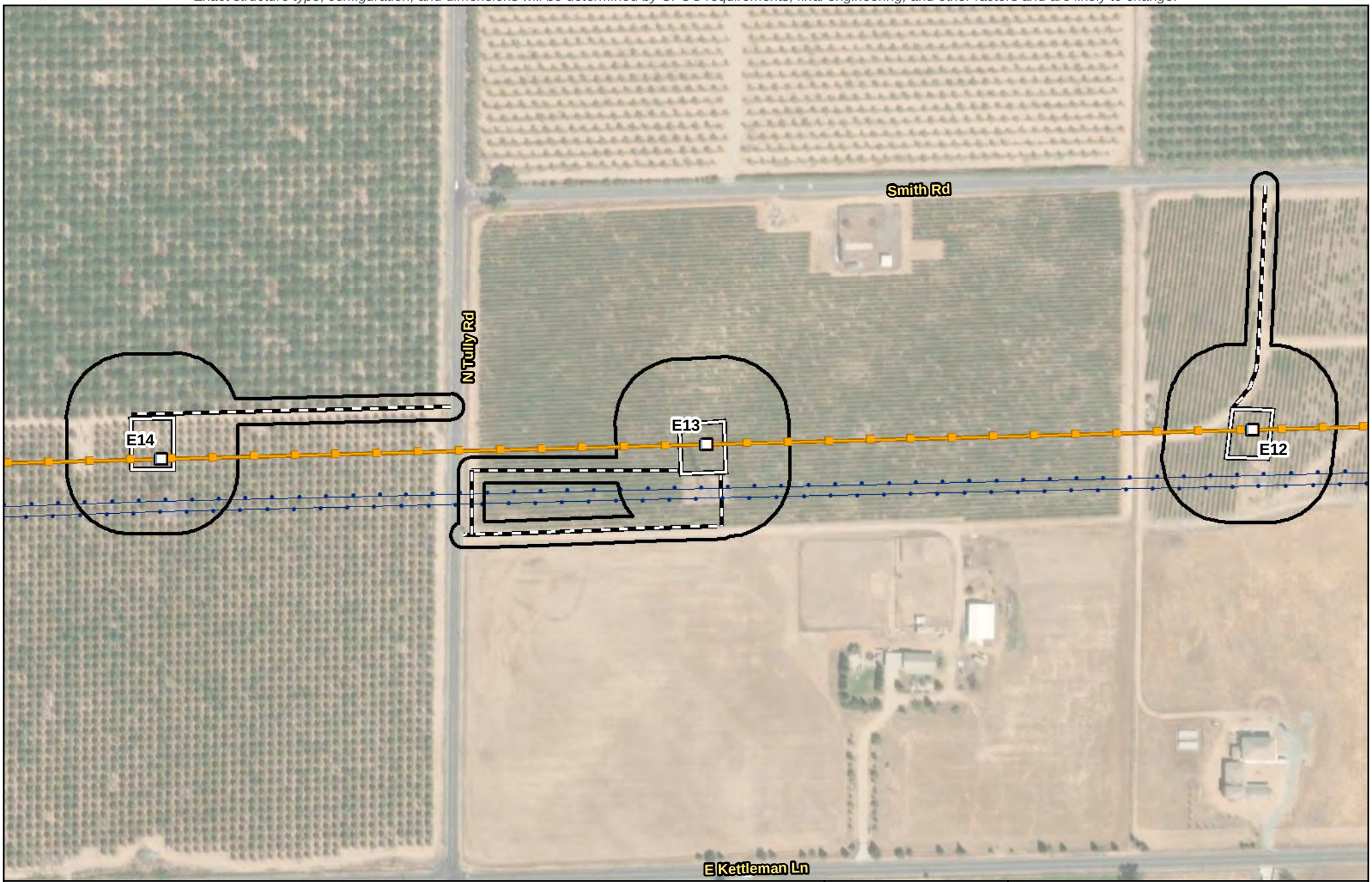

Legend

- Biological Study Area (387.06 acres)
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- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
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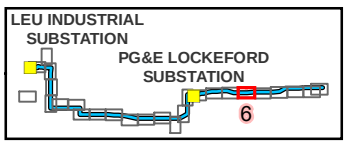

Source:
1) Esri World Imagery

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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

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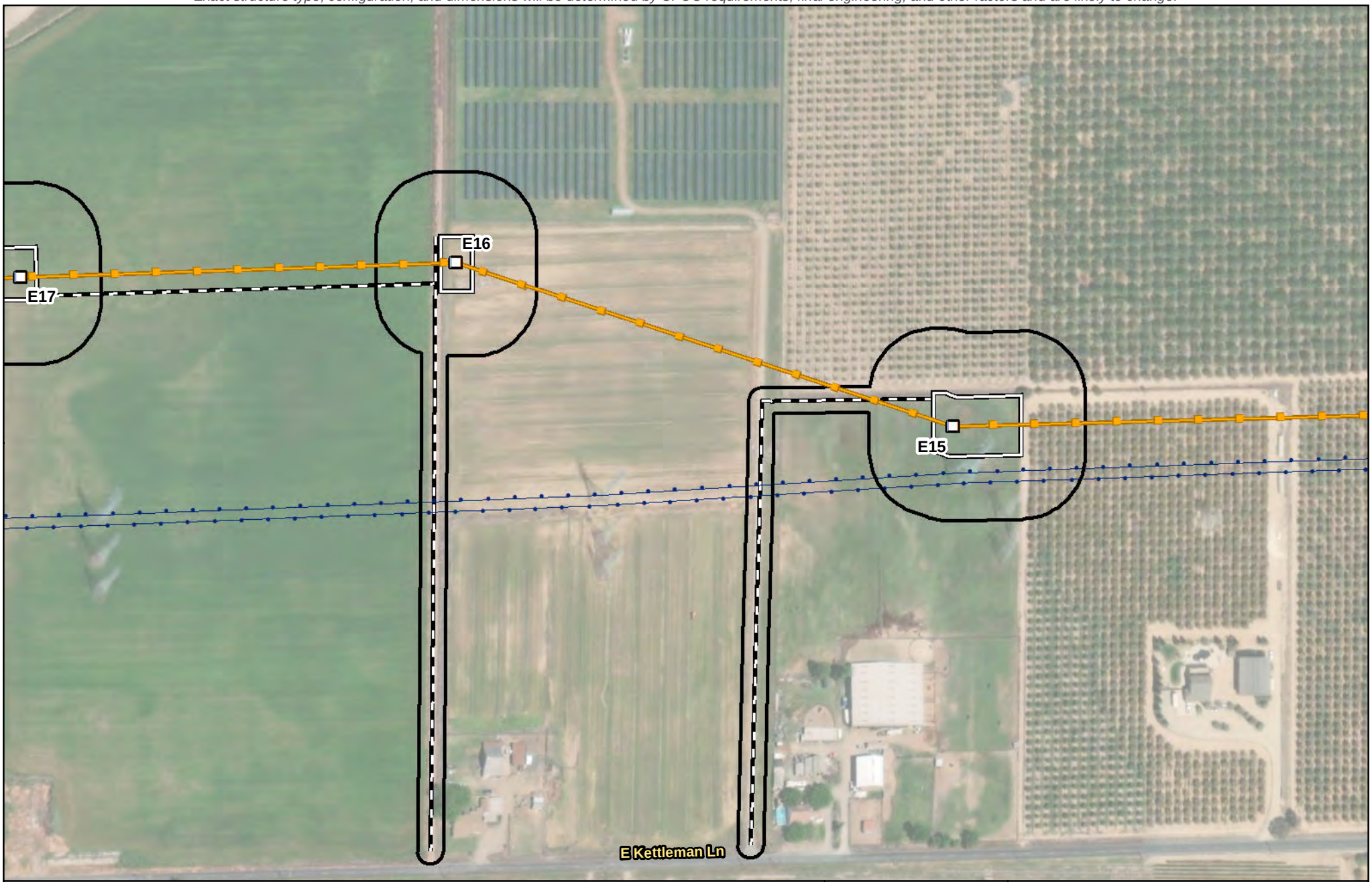

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
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- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
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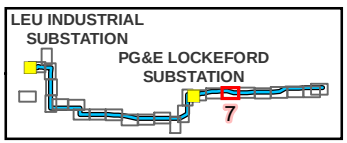

Source:
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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 7 of 26
Northern San Joaquin 230 kV Transmission Project

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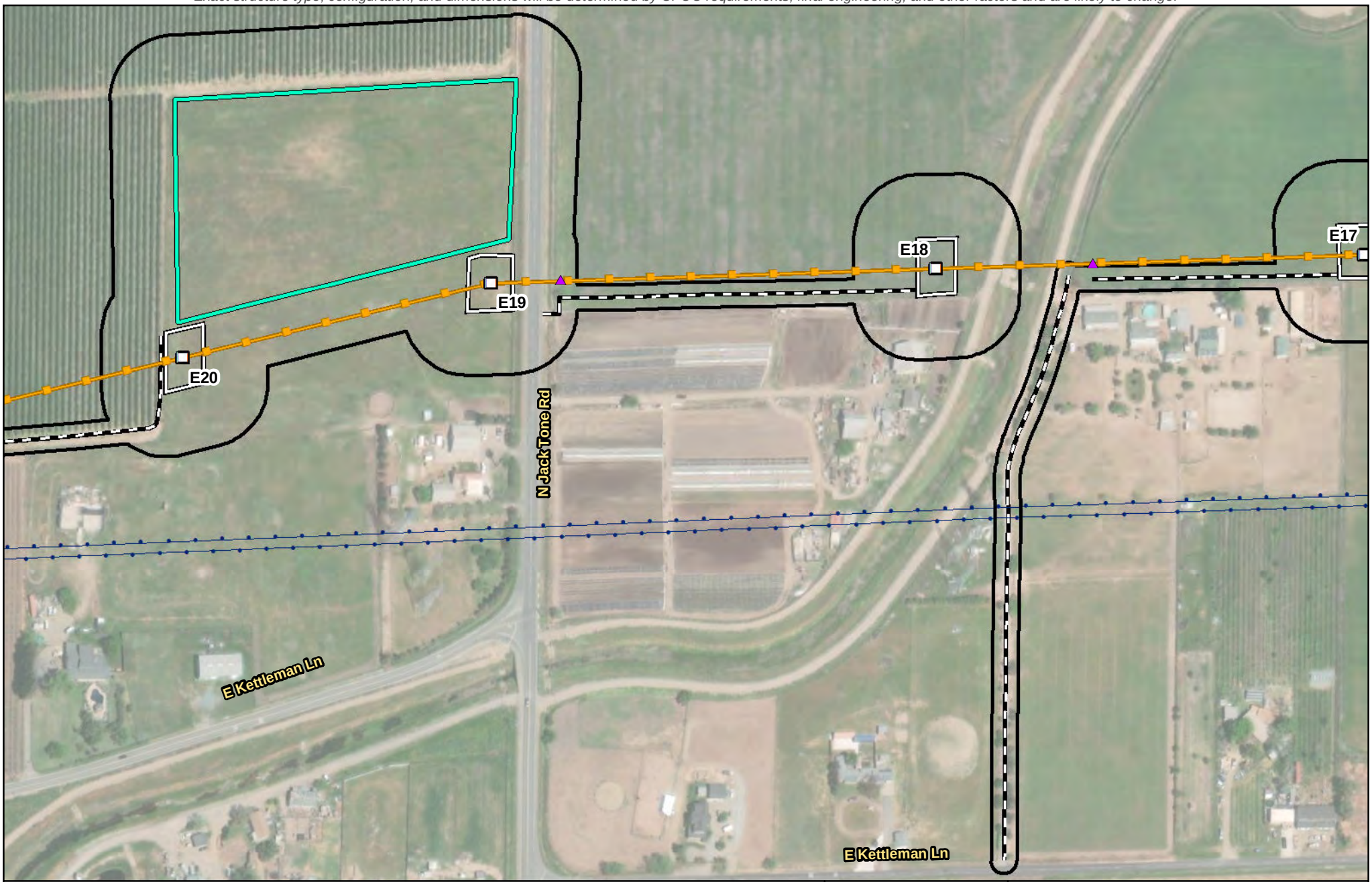

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Existing Guy Stub Pole: Remove
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- Proposed Work Area
- Proposed Pull Site
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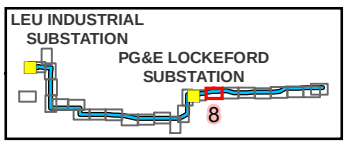

Source:
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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project

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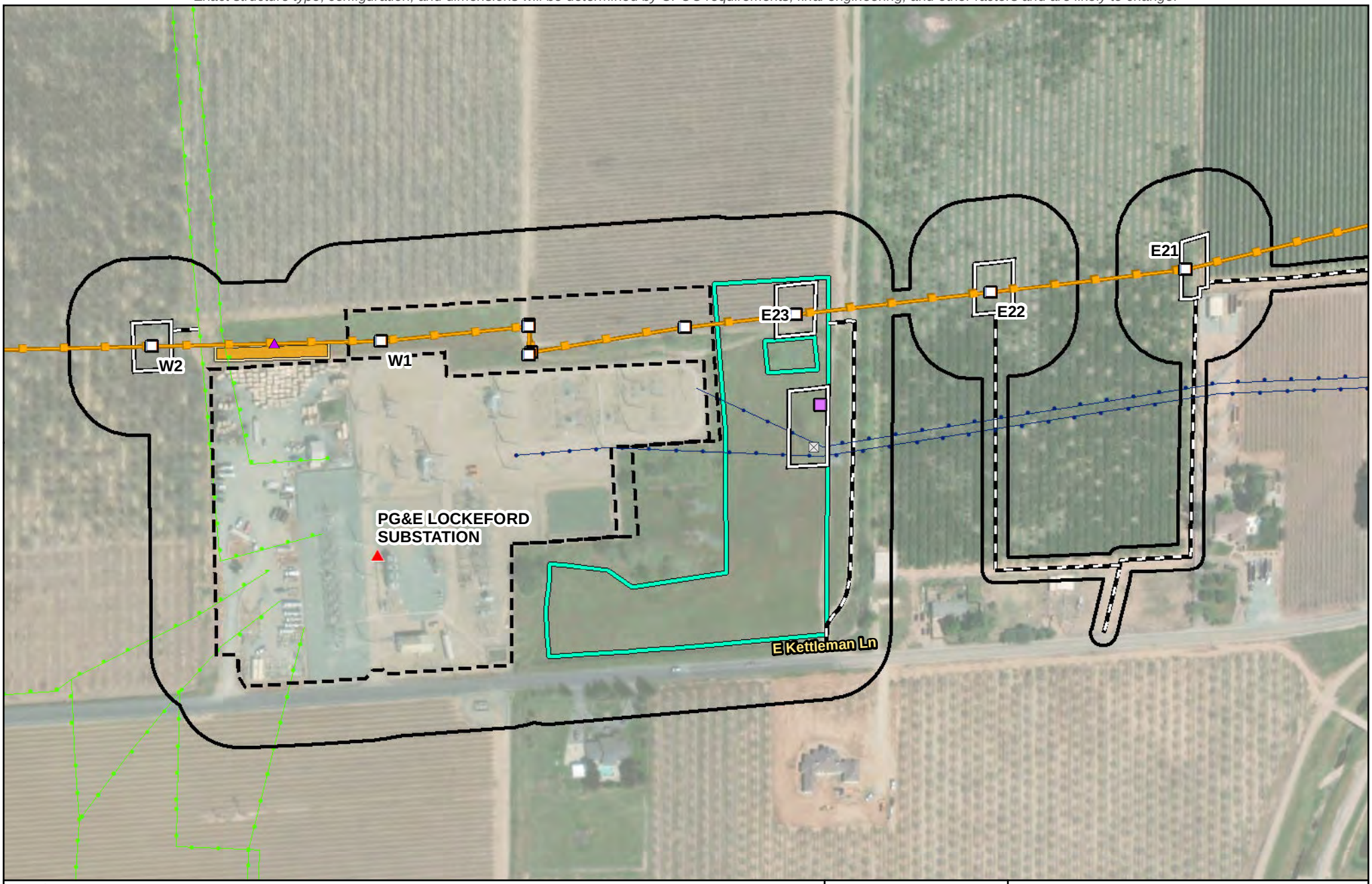

Legend

- Biological Study Area (387.06 acres)
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- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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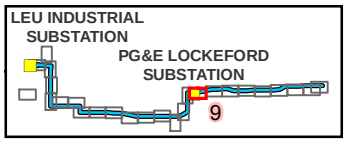

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 9 of 26
Northern San Joaquin 230 kV Transmission Project

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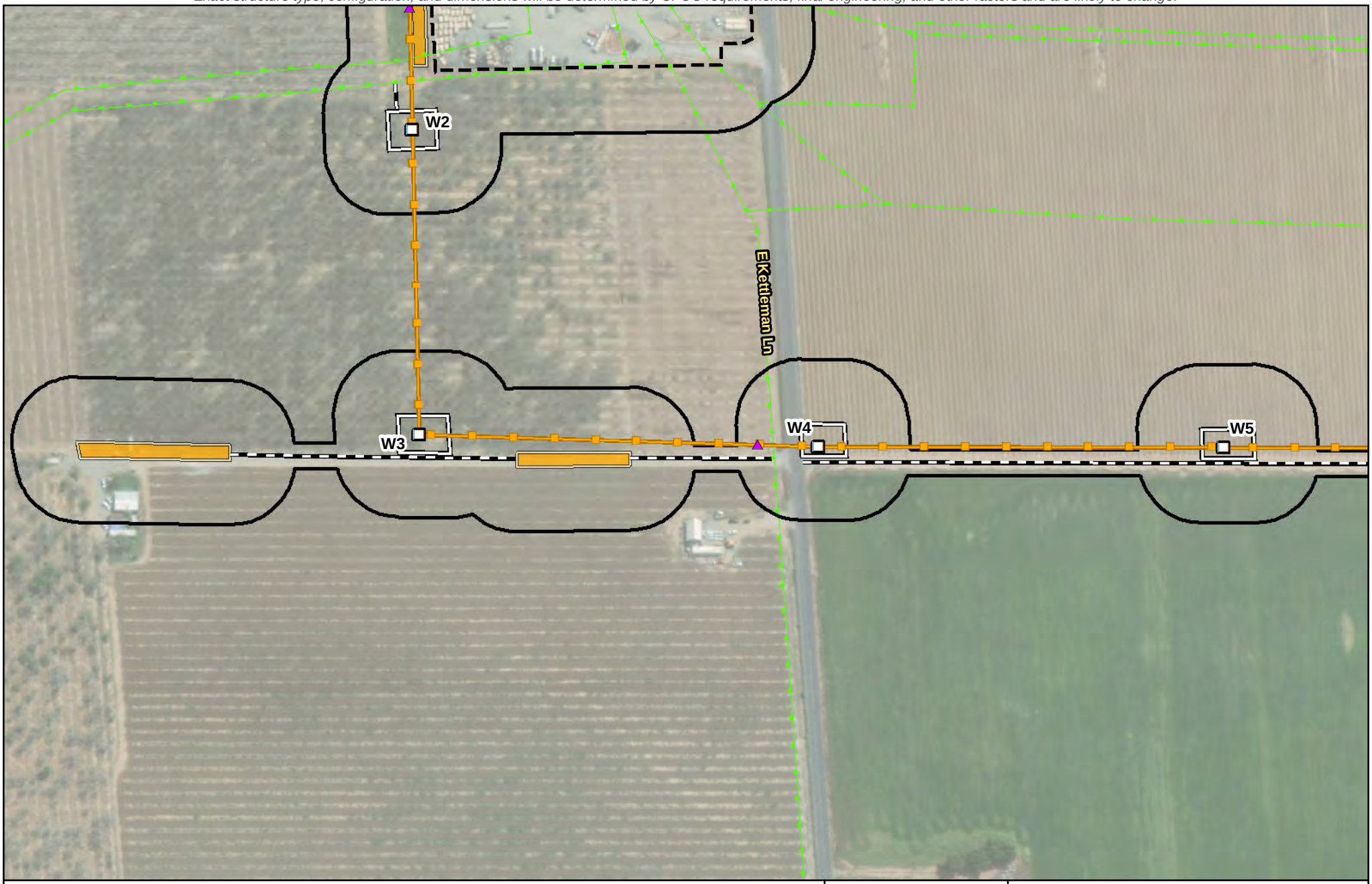

Legend

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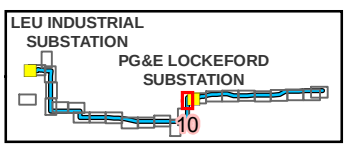

Source:
1) Esri World Imagery

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Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 10 of 26
Northern San Joaquin 230 kV Transmission Project

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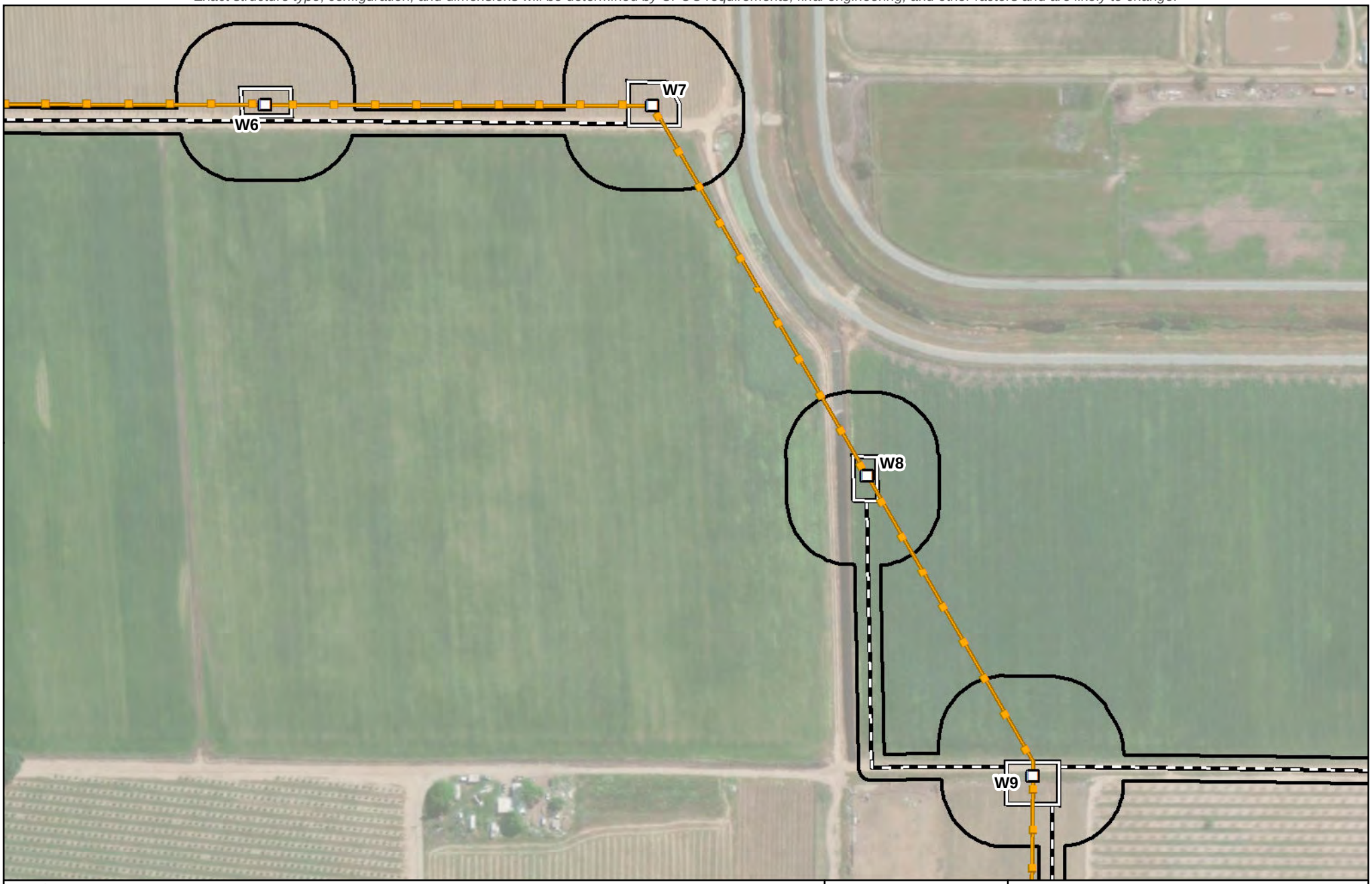

Legend

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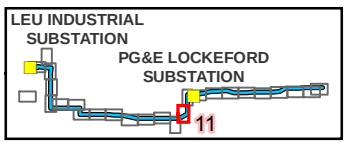

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

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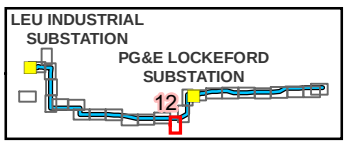
- Proposed Fenceline
- Proposed Staging Area



Source:
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FIGURE 5.4-1
Project Components and Biological Study Area
Page 12 of 26
Northern San Joaquin 230 kV Transmission Project

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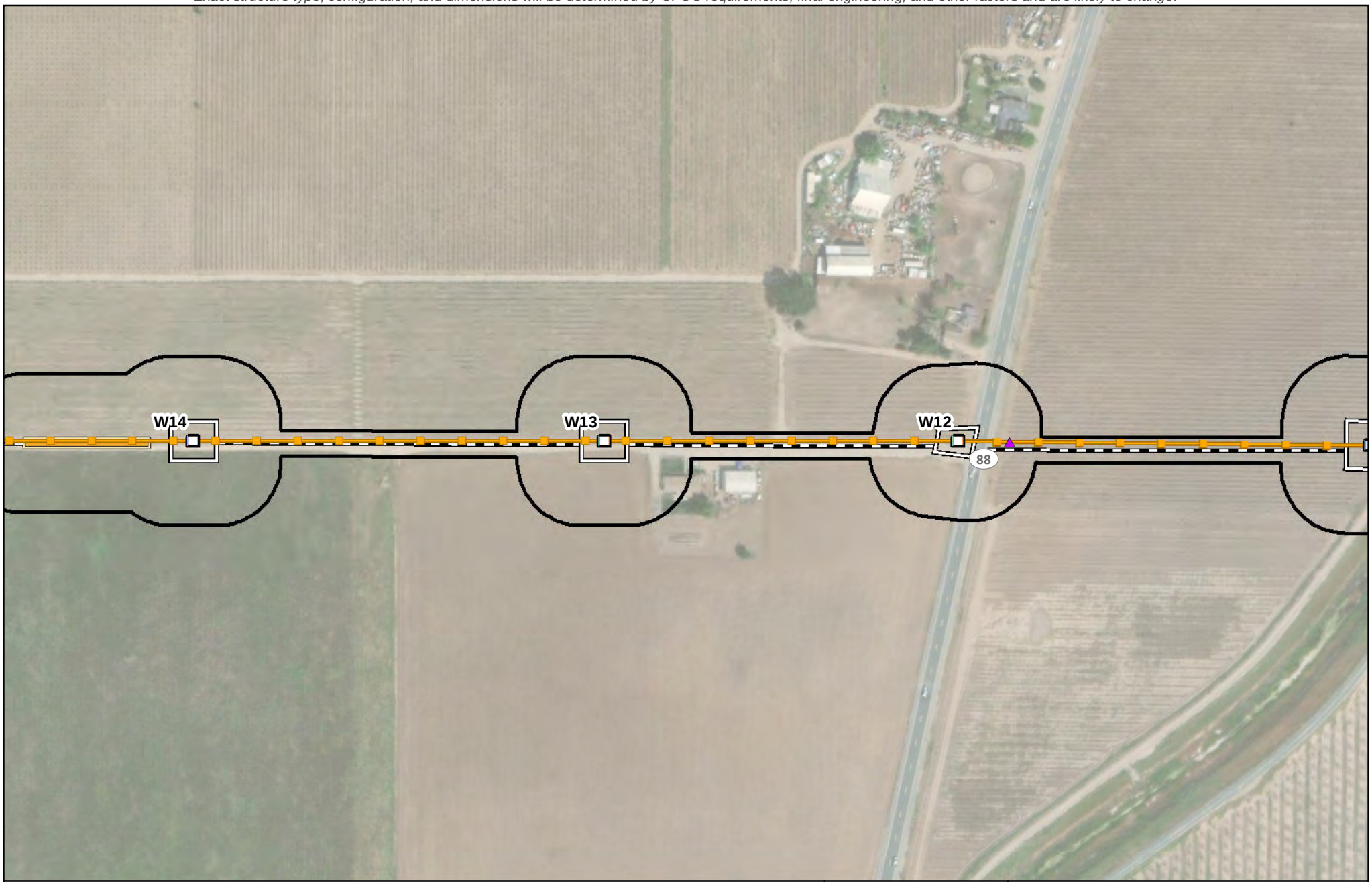
Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
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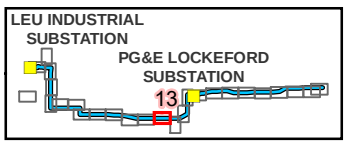

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

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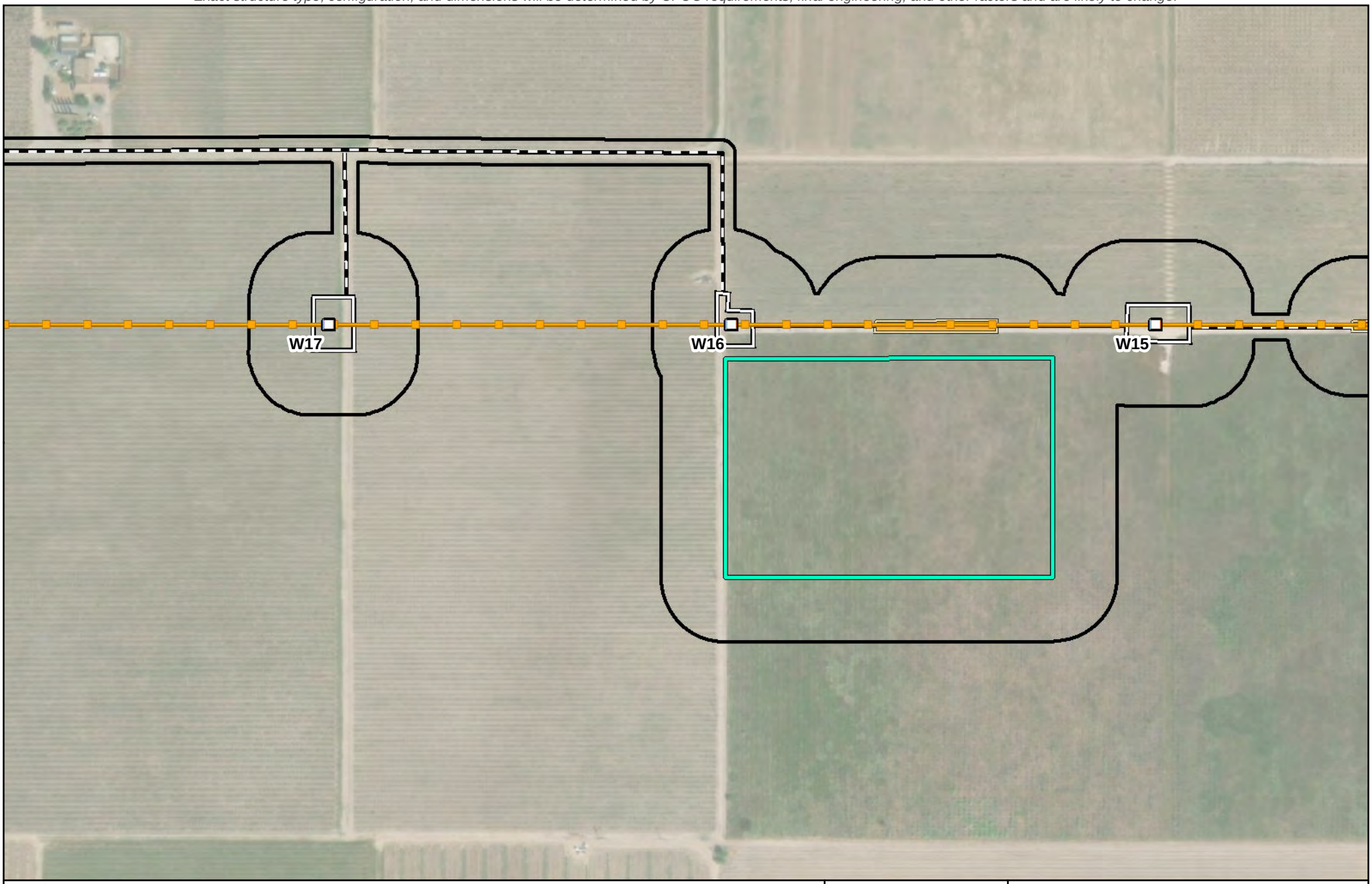

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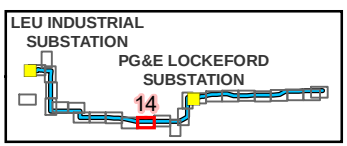

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 14 of 26
Northern San Joaquin 230 kV Transmission Project

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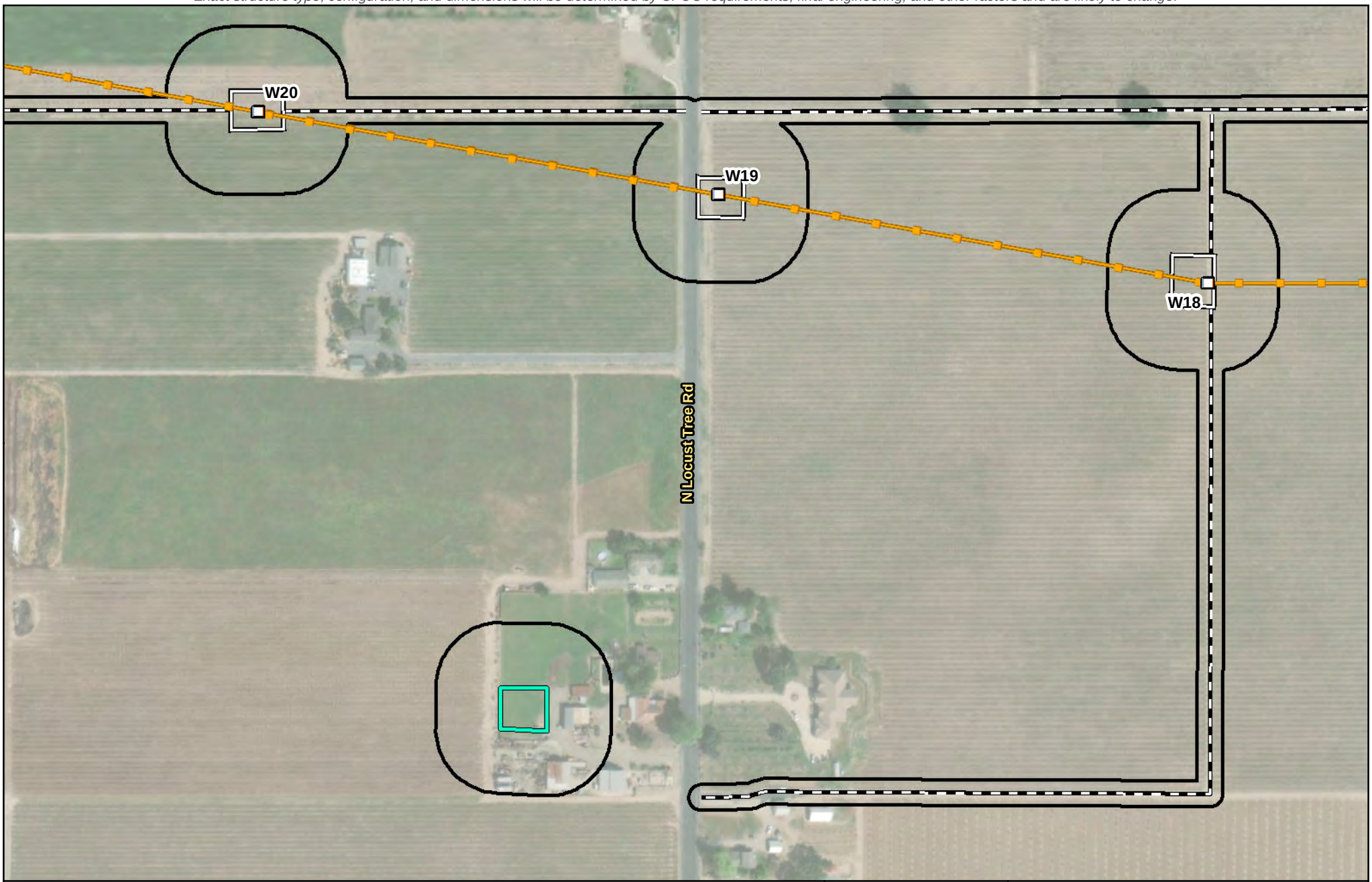

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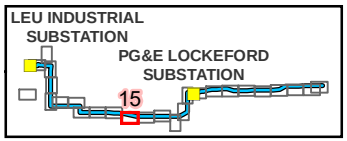

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 15 of 26
Northern San Joaquin 230 kV Transmission Project

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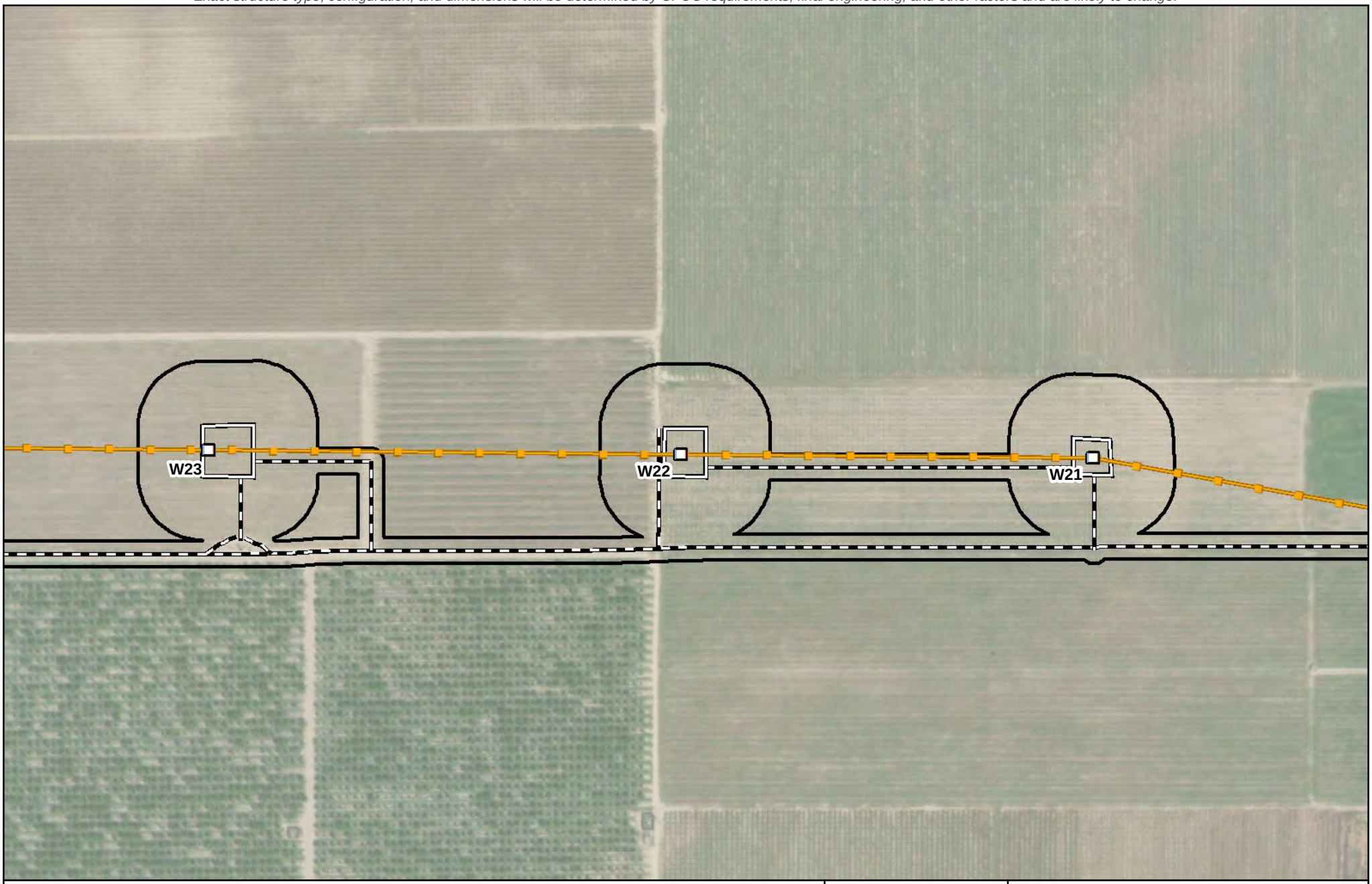

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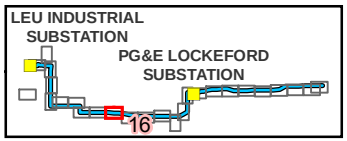

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 16 of 26
Northern San Joaquin 230 kV Transmission Project

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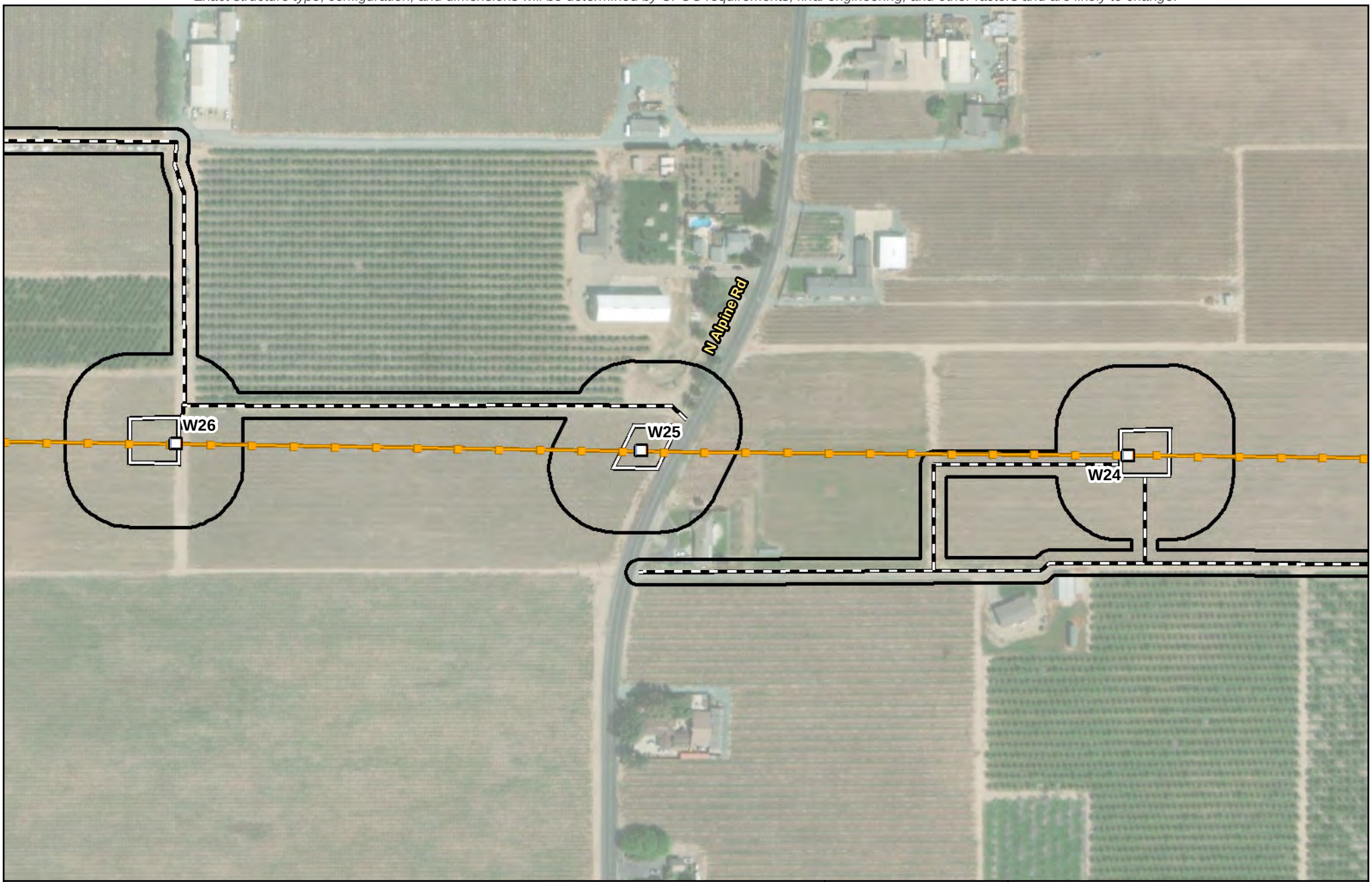

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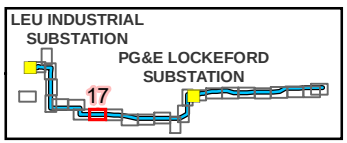

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 17 of 26
Northern San Joaquin 230 kV Transmission Project

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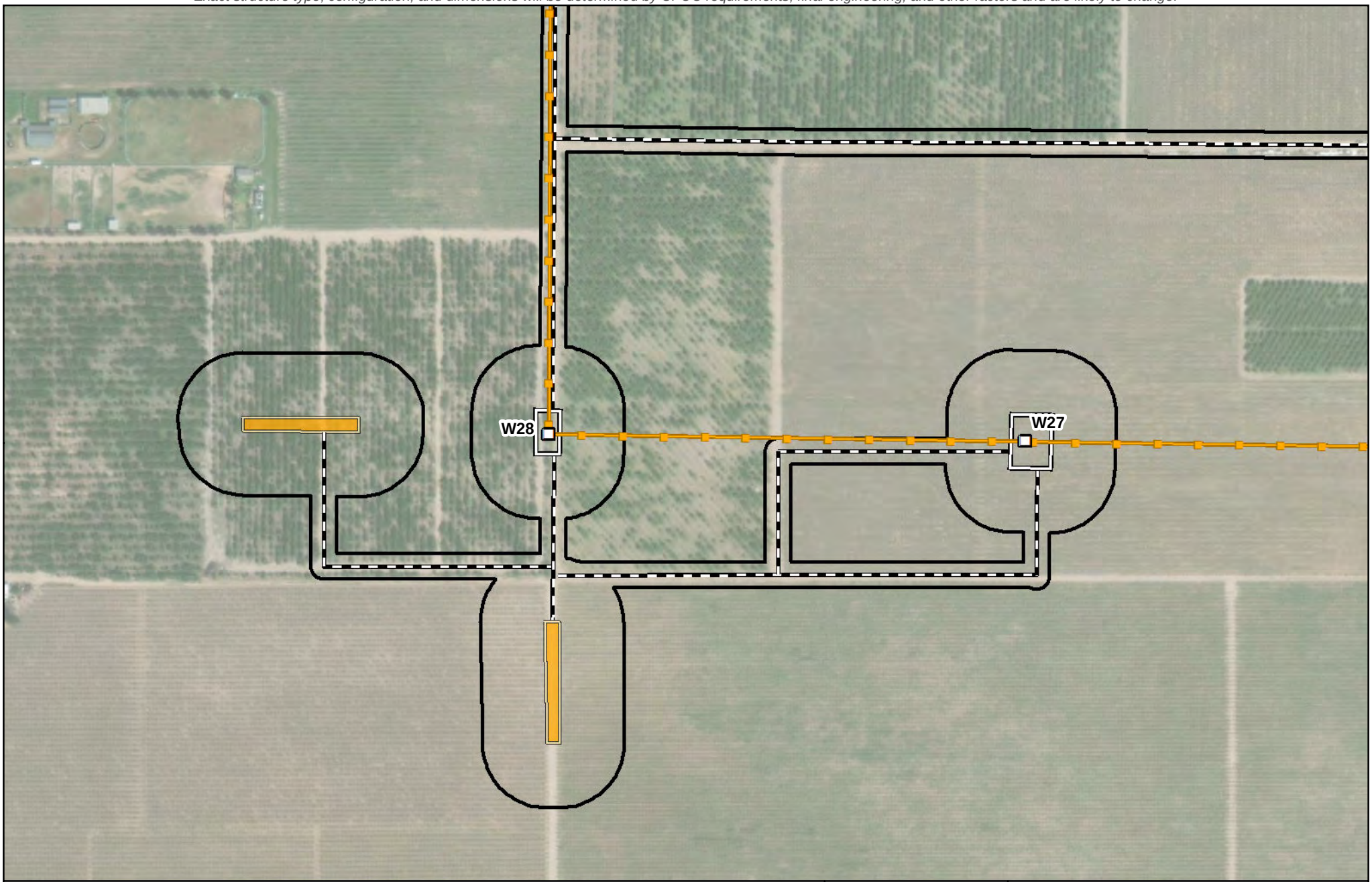

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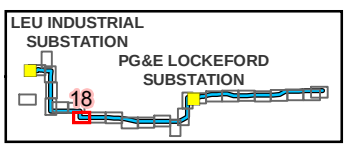

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 18 of 26
Northern San Joaquin 230 kV Transmission Project

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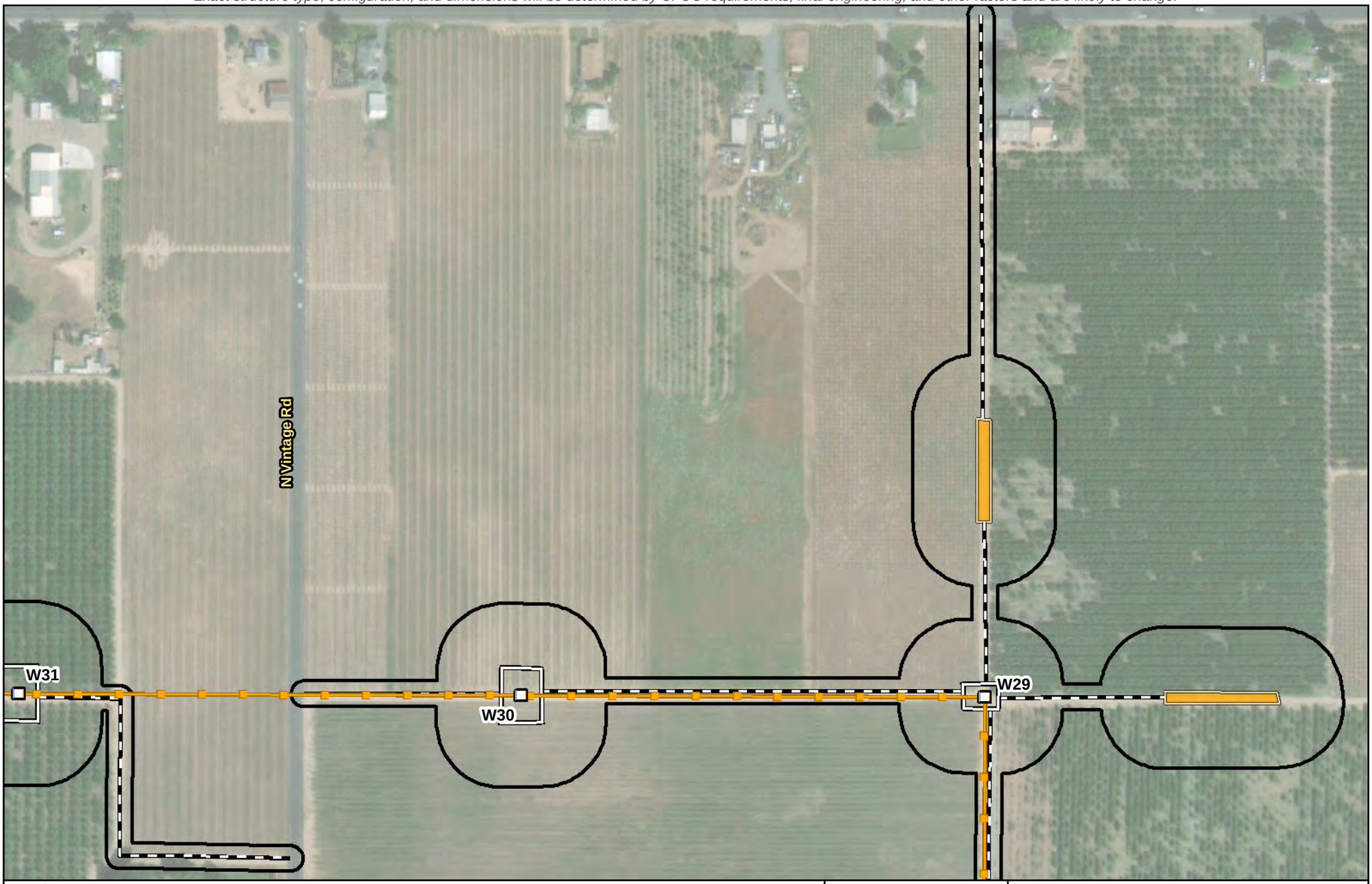

Legend

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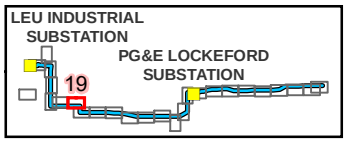

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 19 of 26
Northern San Joaquin 230 kV Transmission Project

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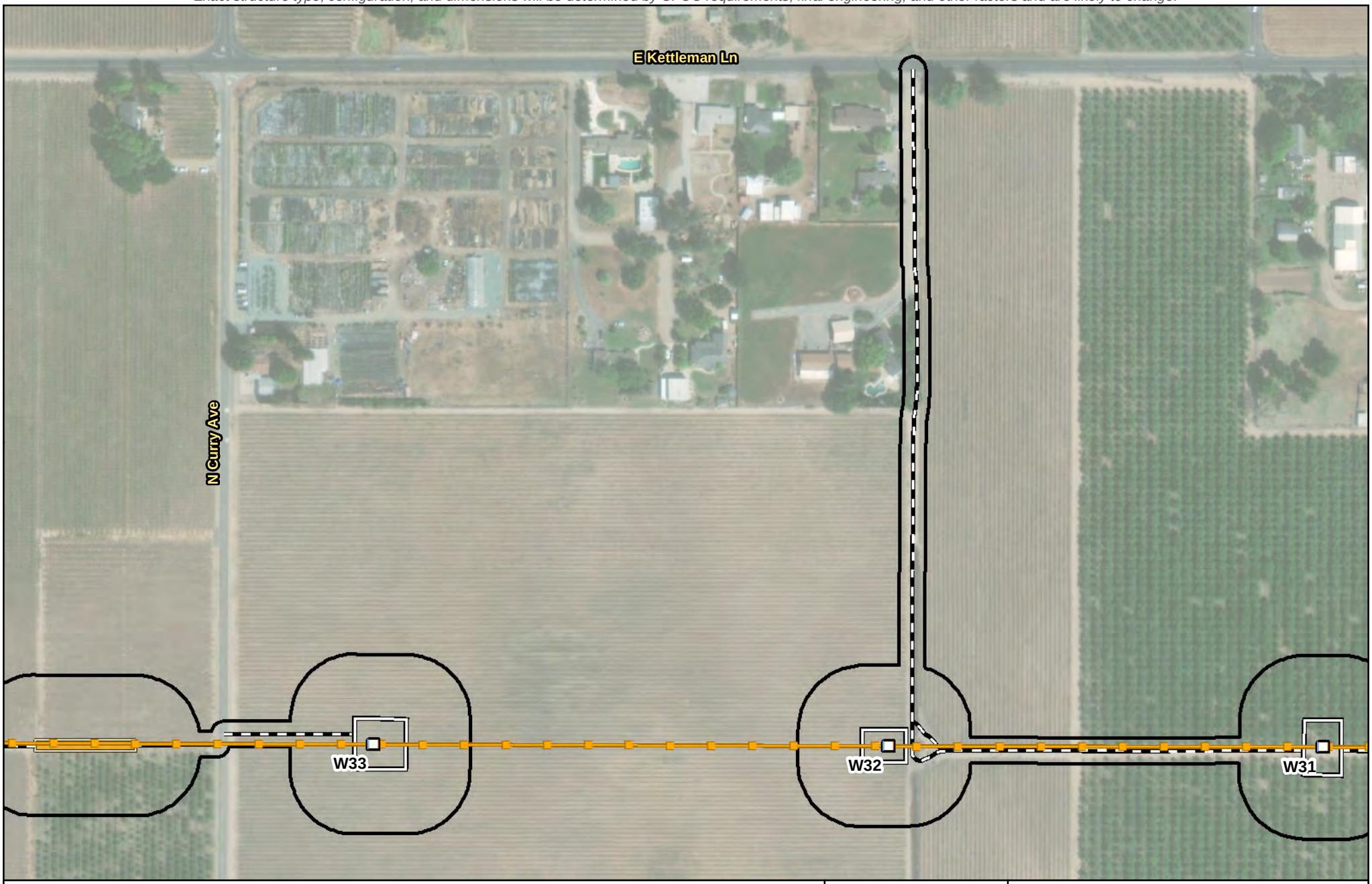

Legend

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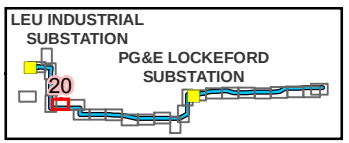

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 20 of 26
Northern San Joaquin 230 kV Transmission Project

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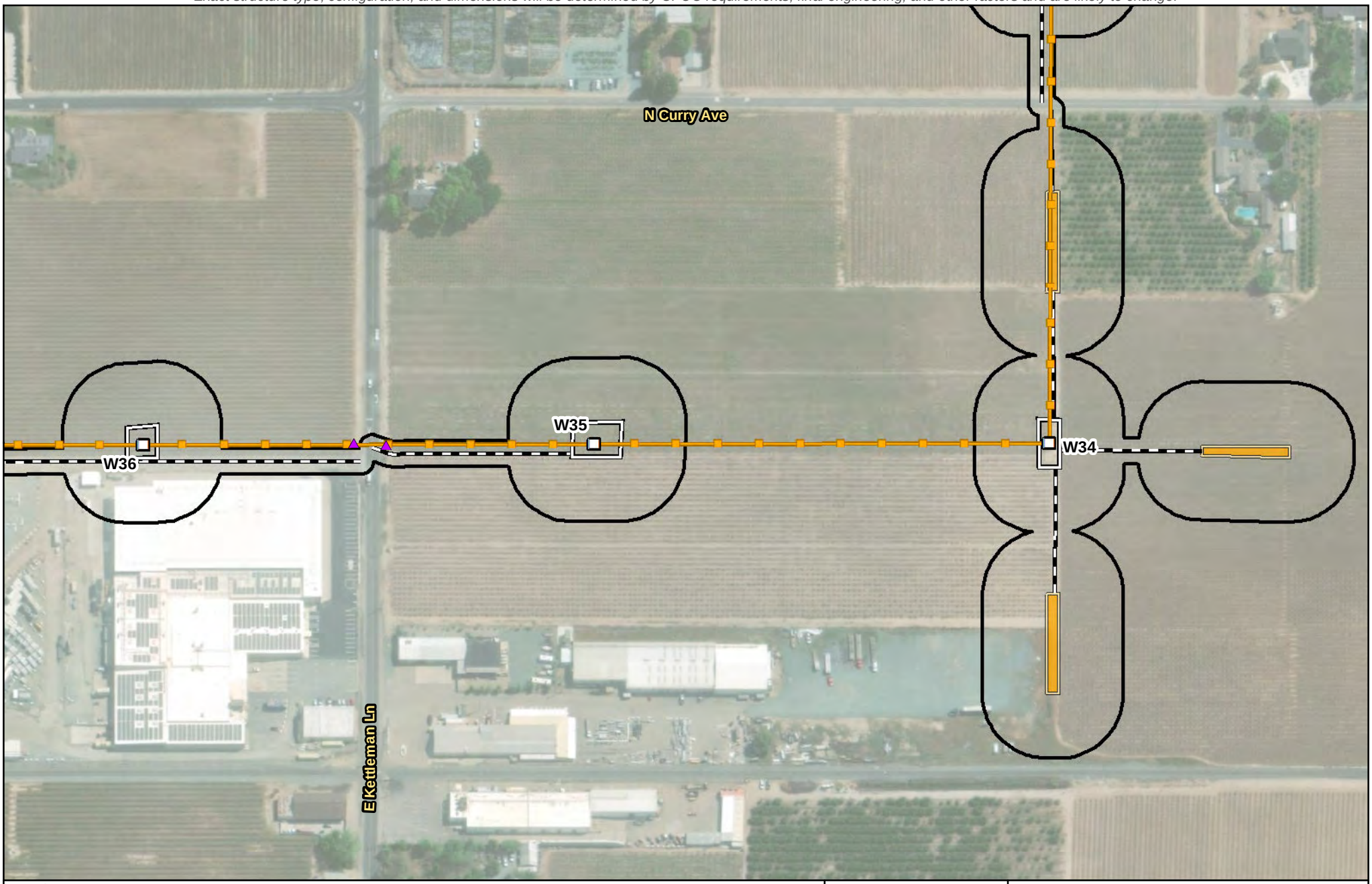

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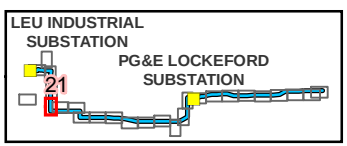

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 21 of 26
Northern San Joaquin 230 kV Transmission Project

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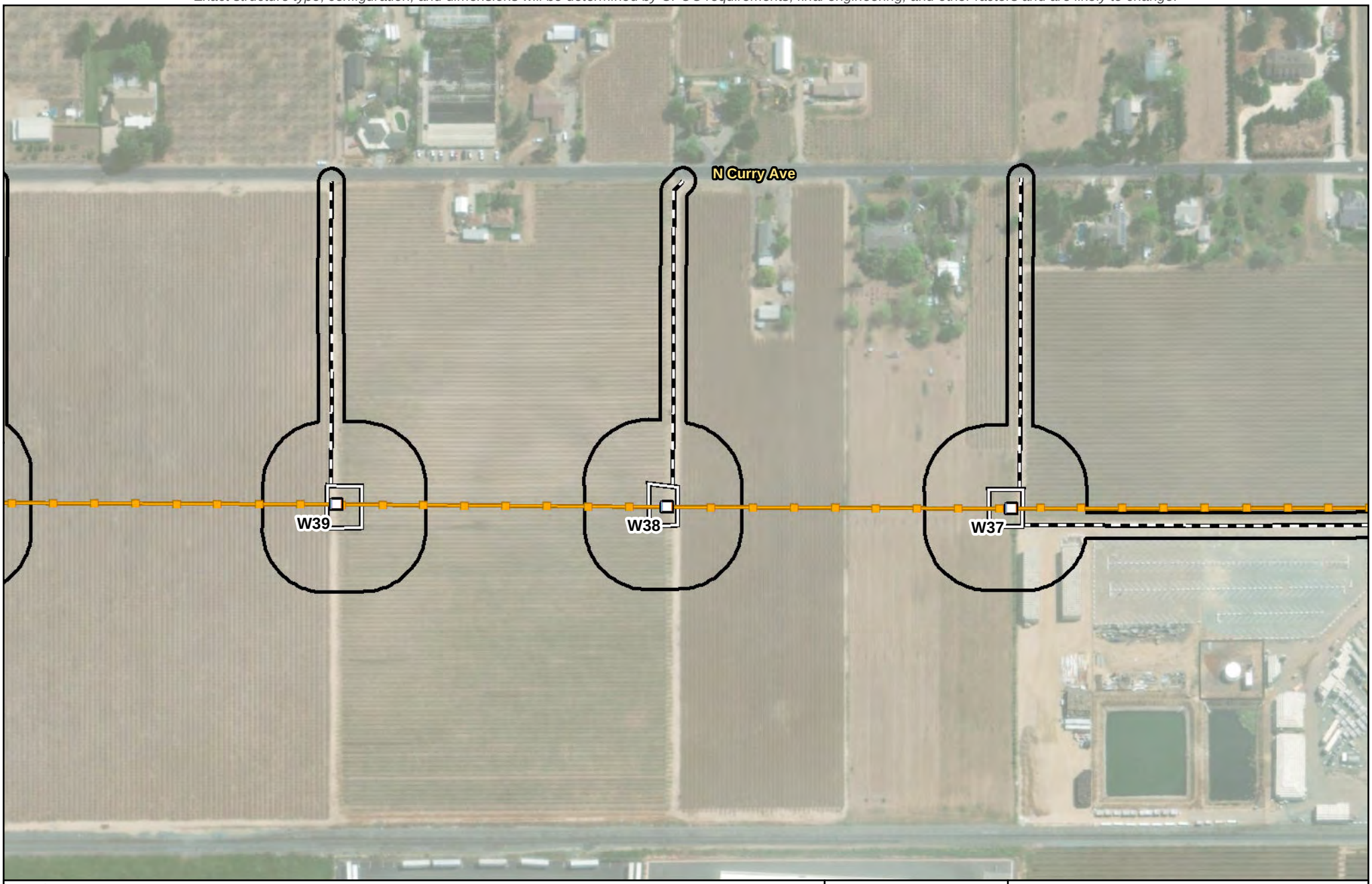

Legend

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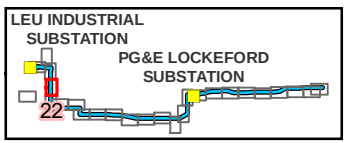

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 22 of 26
Northern San Joaquin 230 kV Transmission Project

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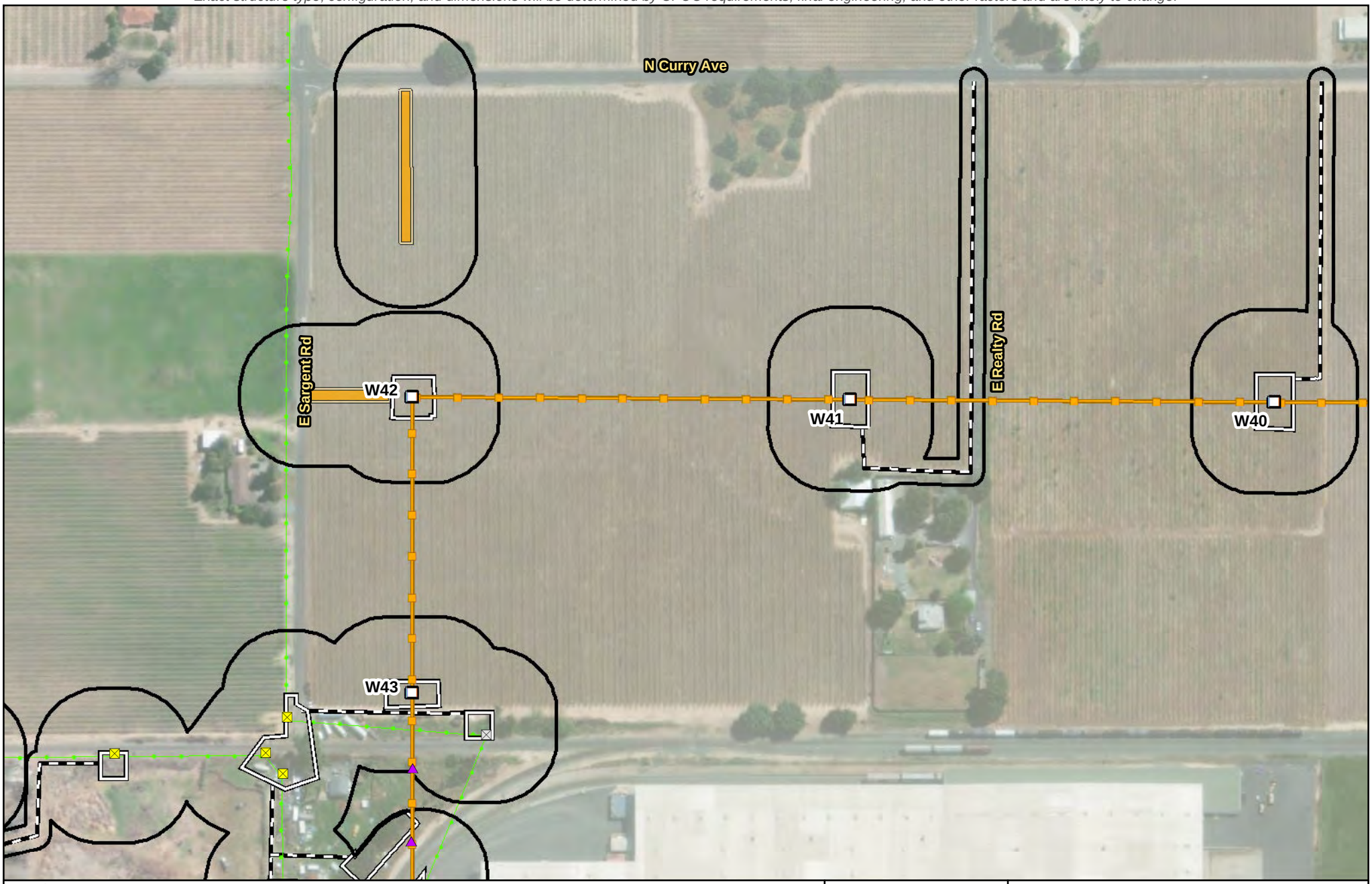

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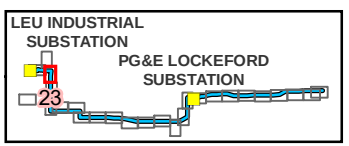

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

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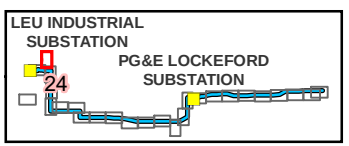

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 24 of 26
Northern San Joaquin 230 kV Transmission Project

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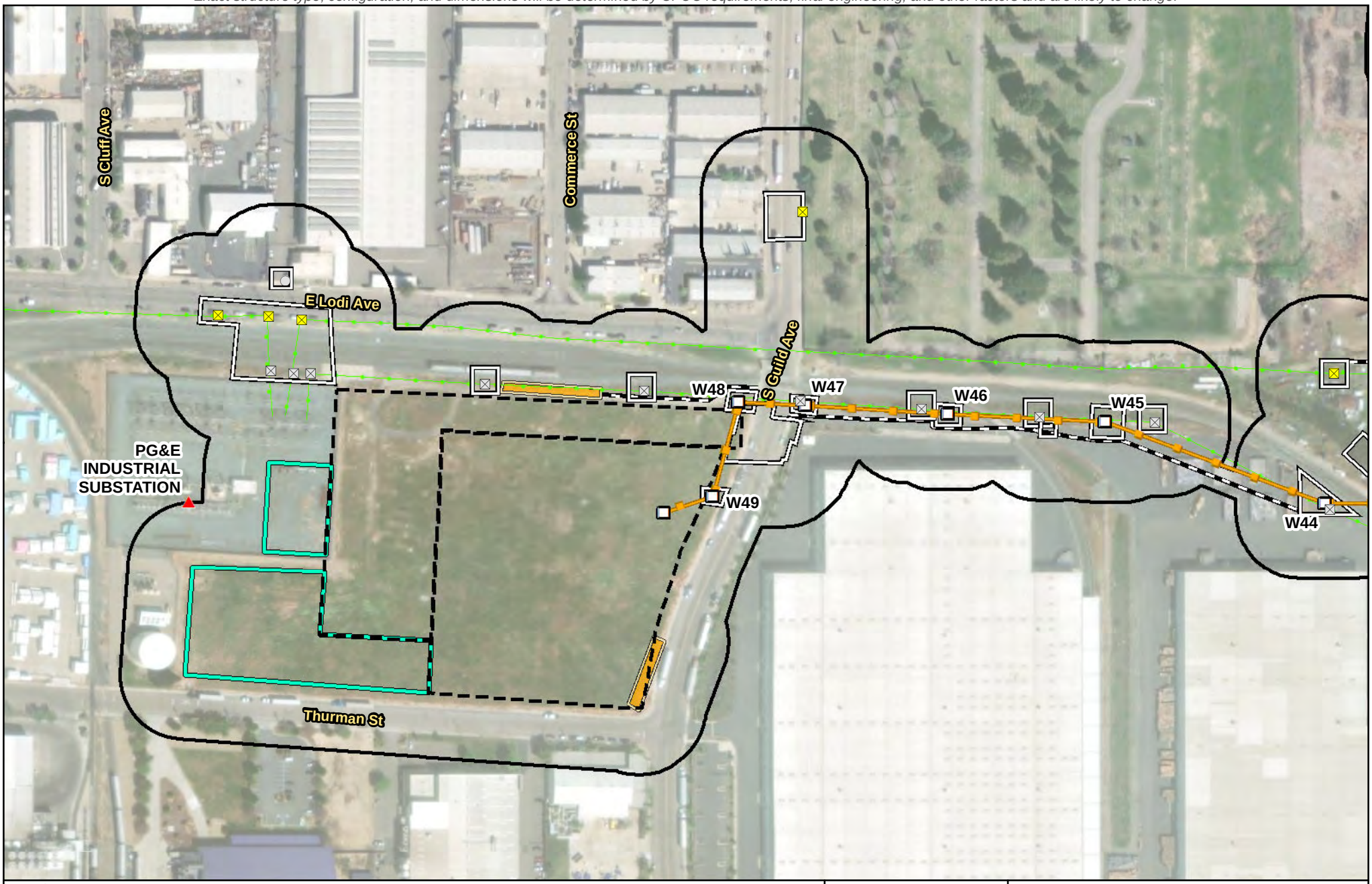

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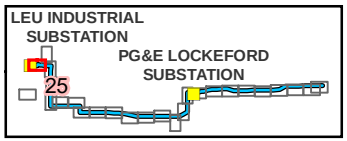

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FIGURE 5.4-1
Project Components and Biological Study Area
Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

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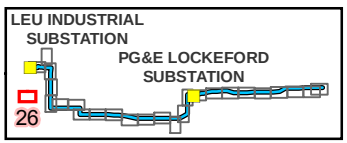

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0 100 Feet

Scale: 1:3,000

FIGURE 5.4-1
Project Components and Biological Study Area
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-1_230730.mxd kgrant1 8/1/2023

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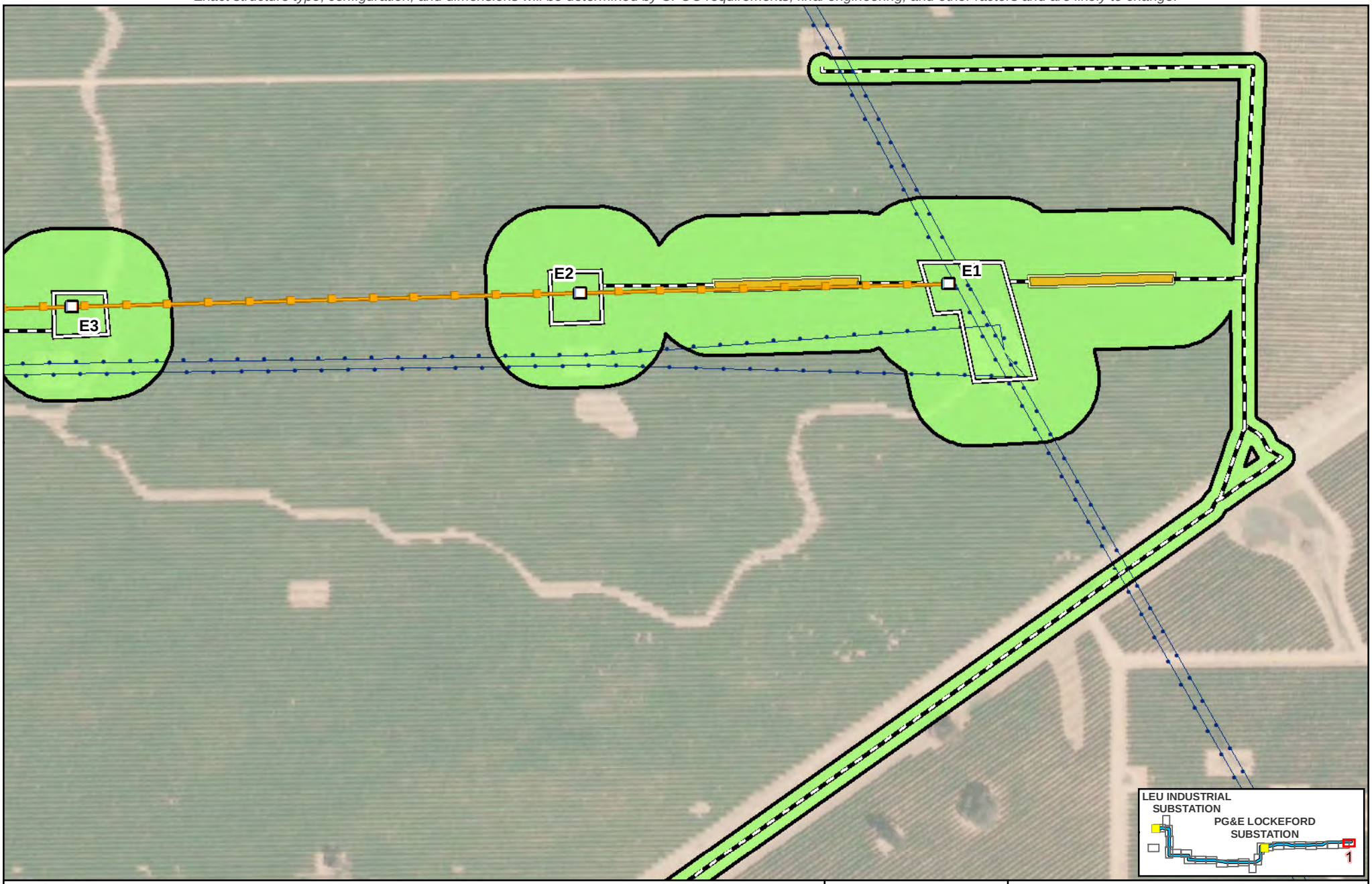

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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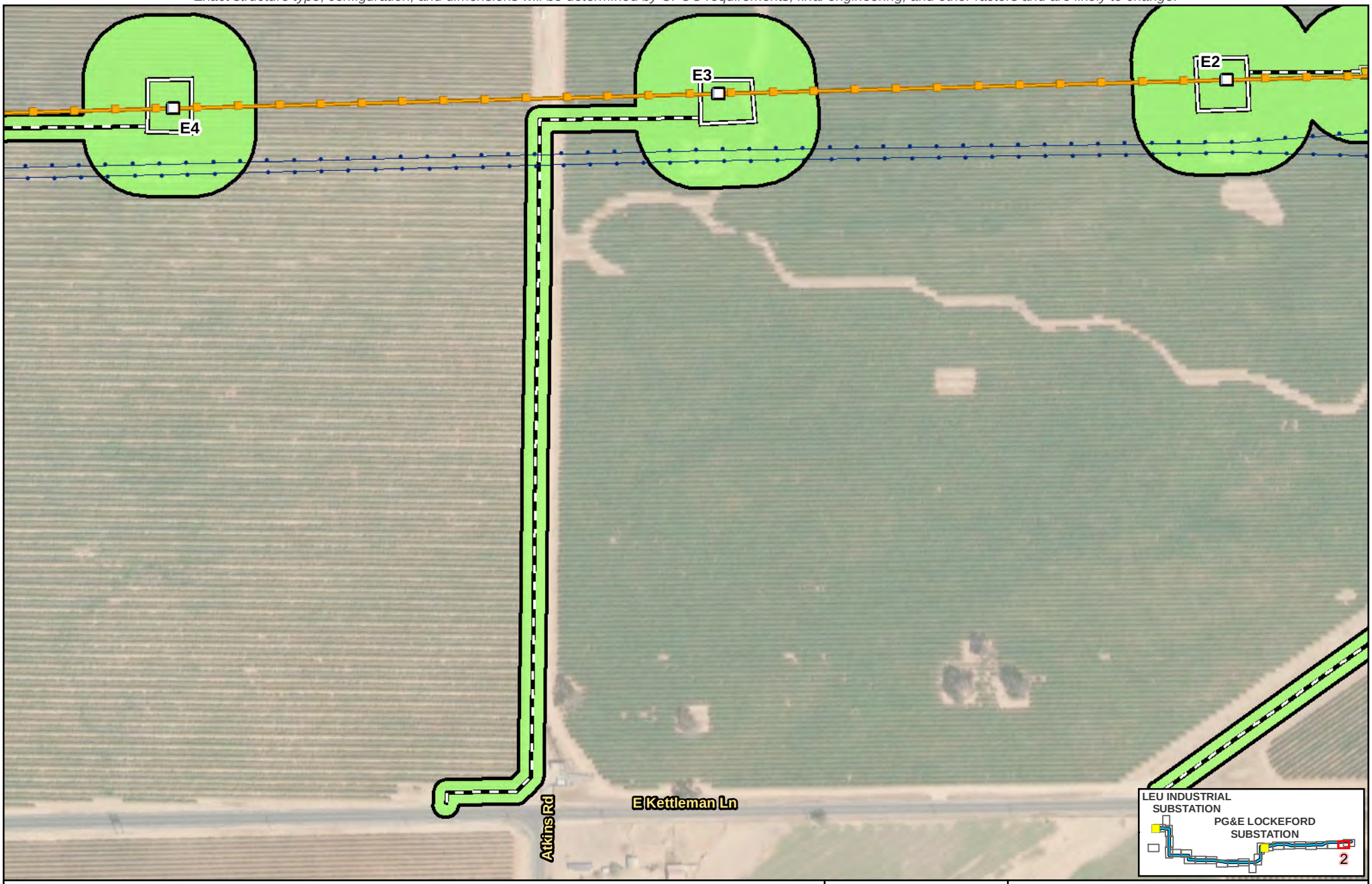

Legend

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- Substation
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Proposed Impact Areas

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- RO-L1 Proposed TSP
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- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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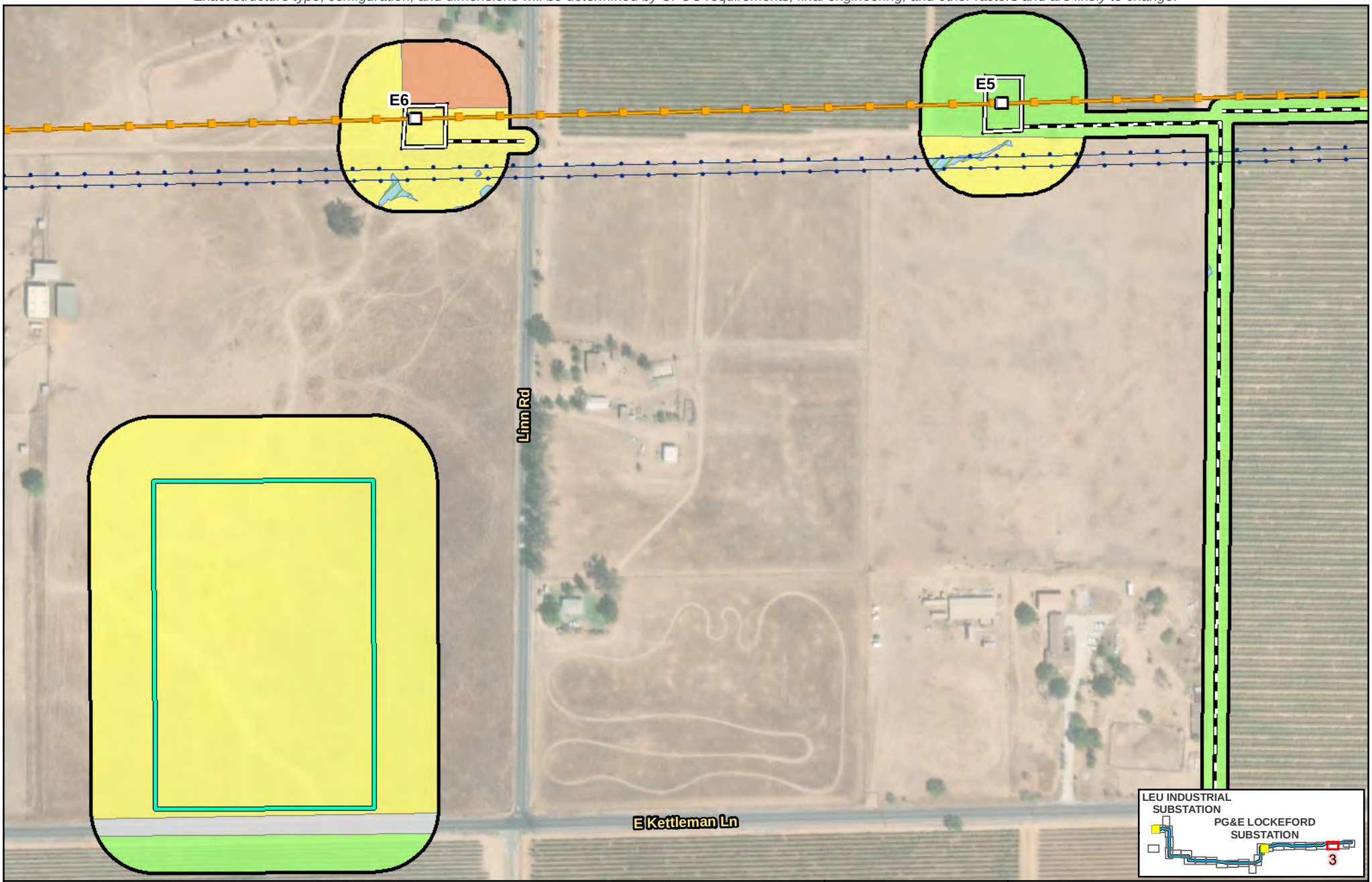

Legend

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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Grassland
- Ruderal
- Wetlands

Source:
1) Esri World Imagery

0 100 Feet

N

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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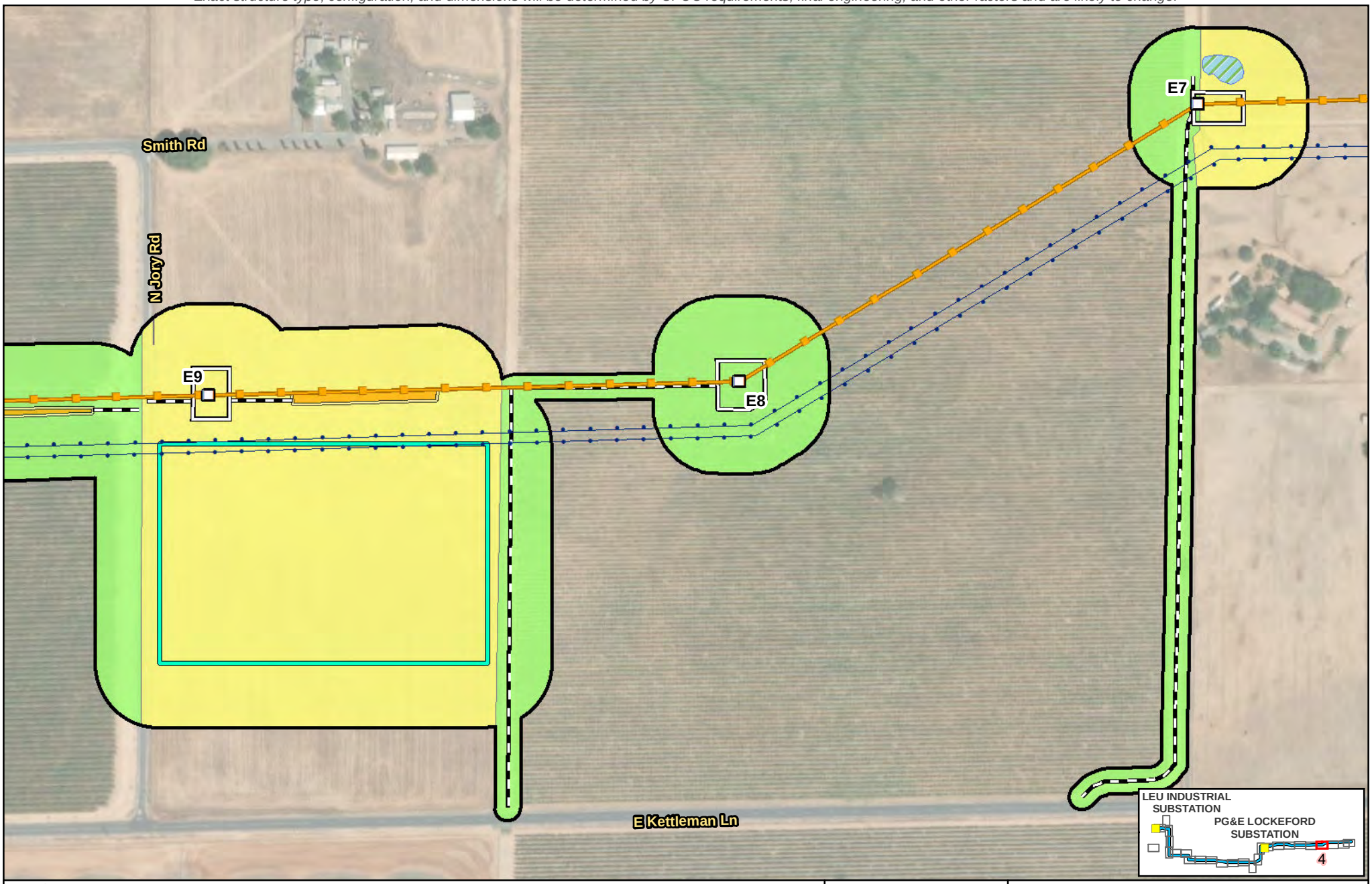

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- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Grassland
- Other Waters
- Wetlands

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

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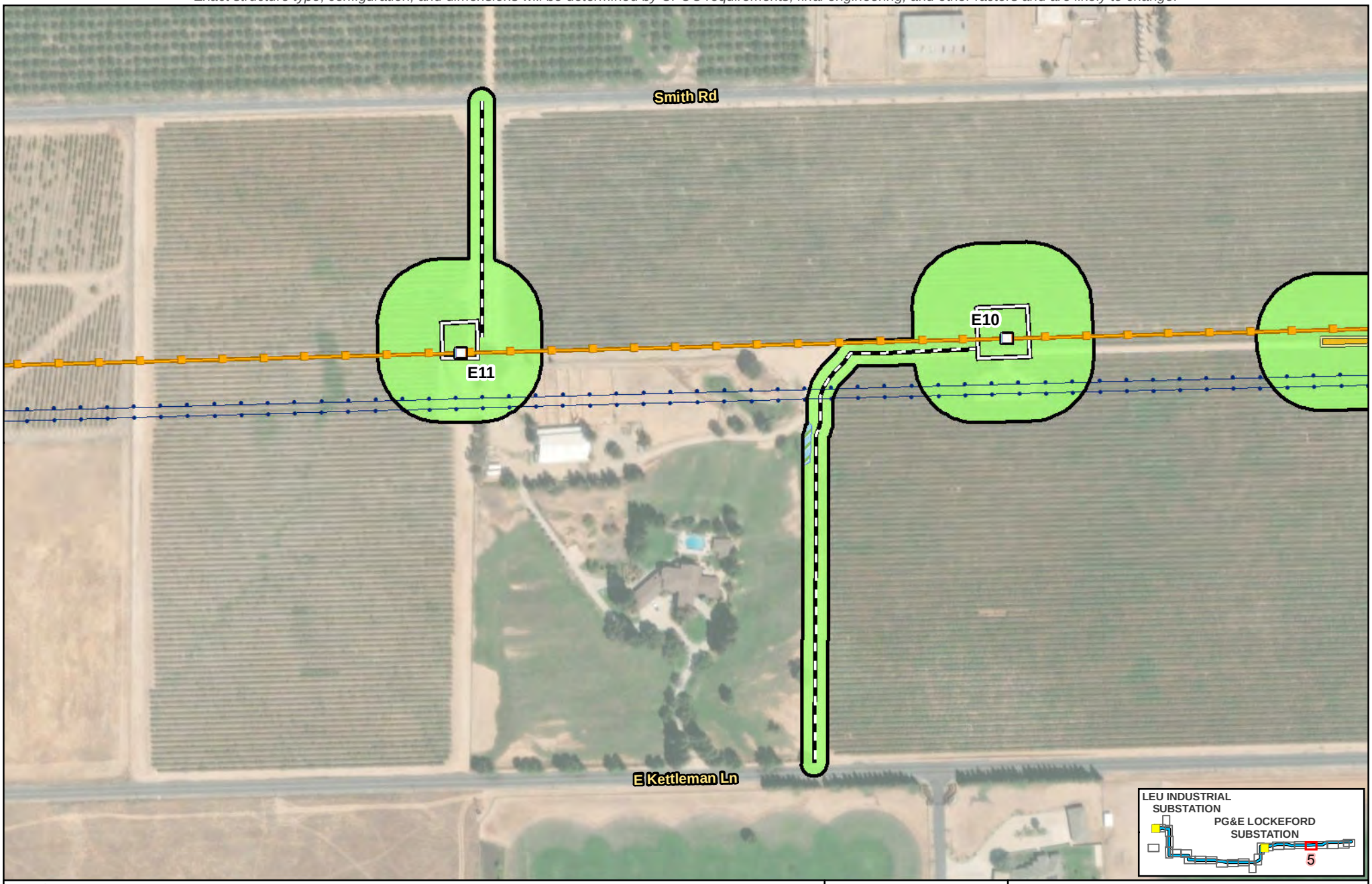

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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Wetlands

Source:
1) Esri World Imagery

0 100 Feet

N

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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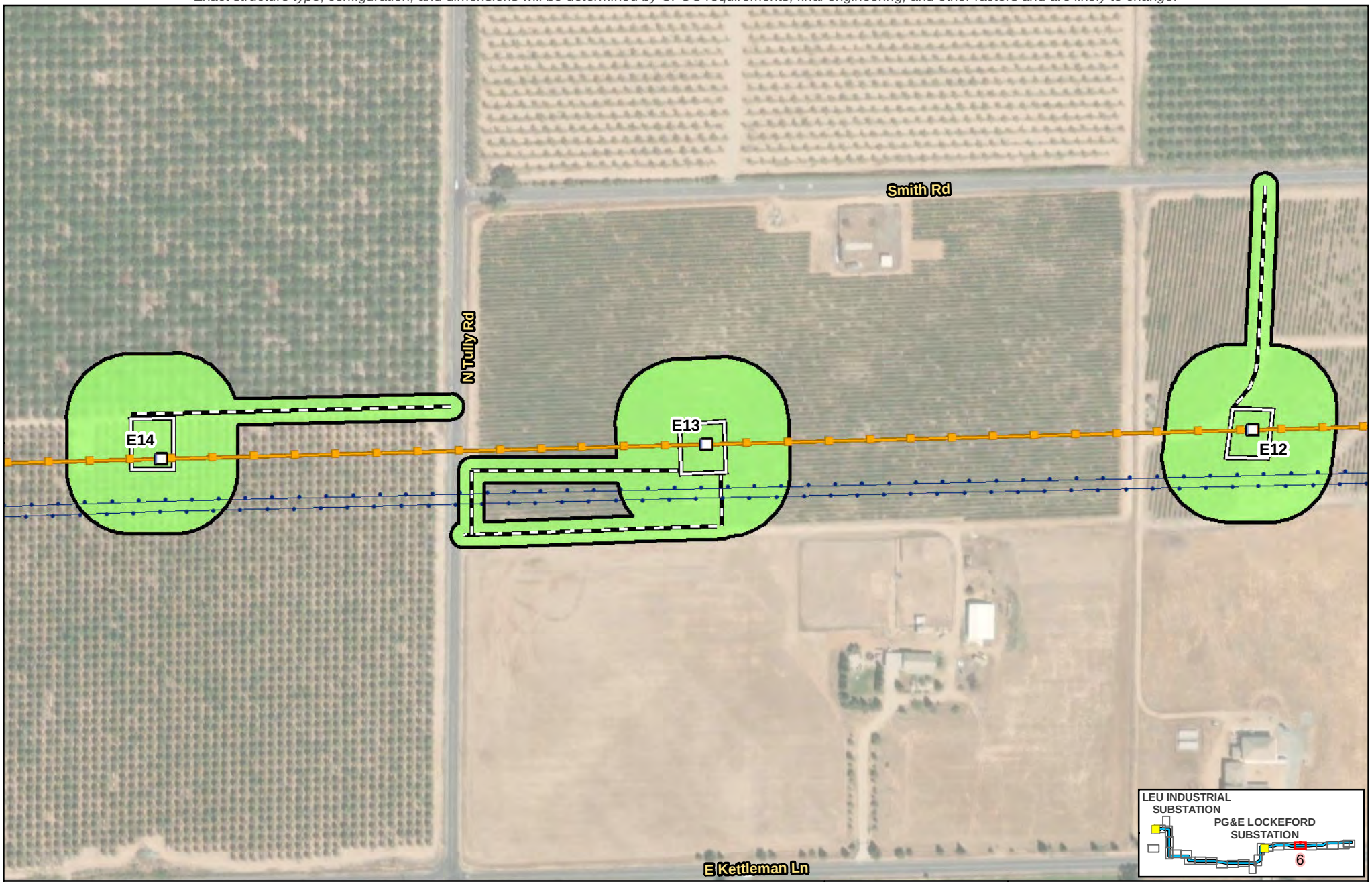

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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

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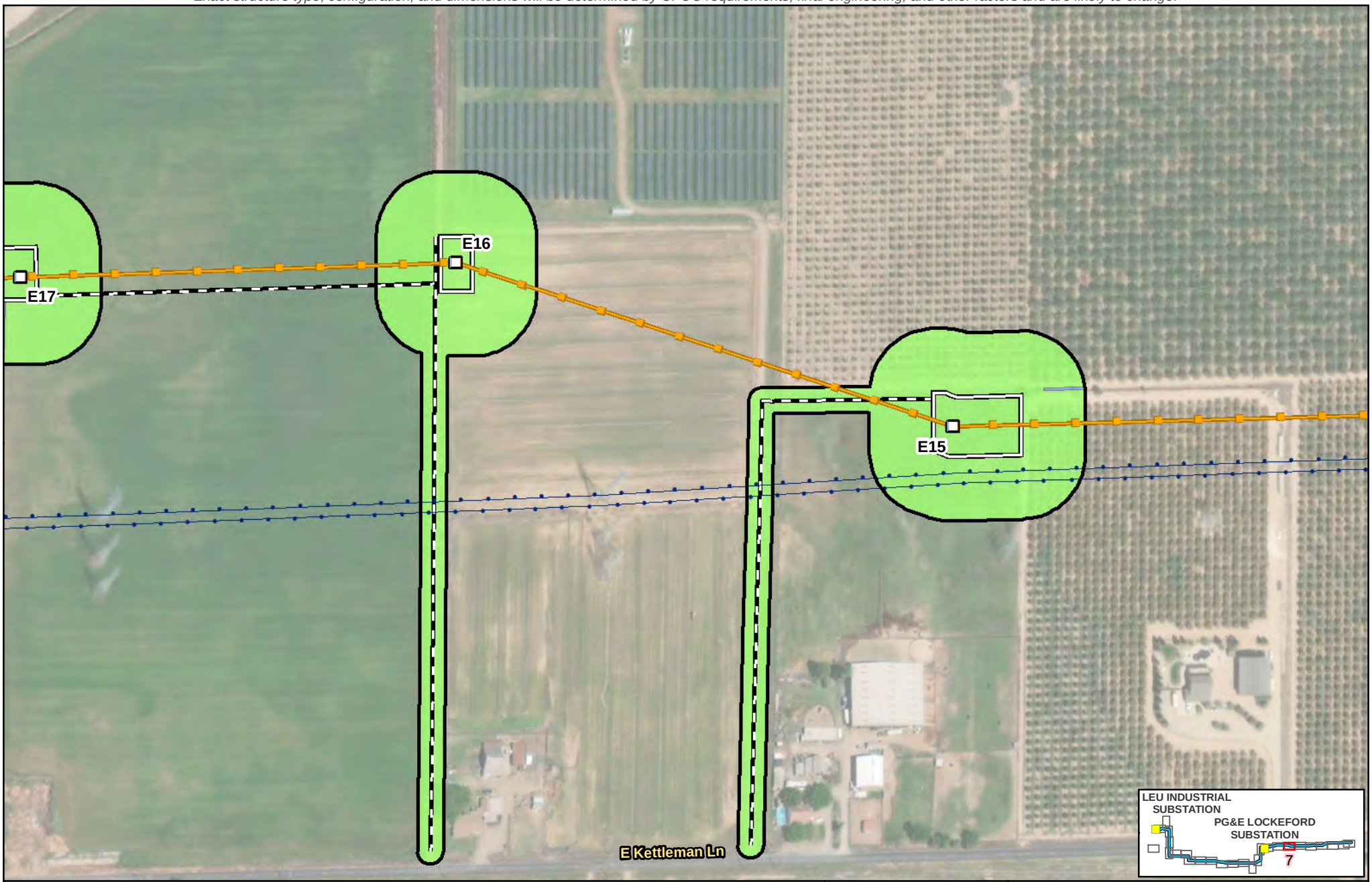

Legend

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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Other Waters

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area

Northern San Joaquin 230 kV Transmission Project

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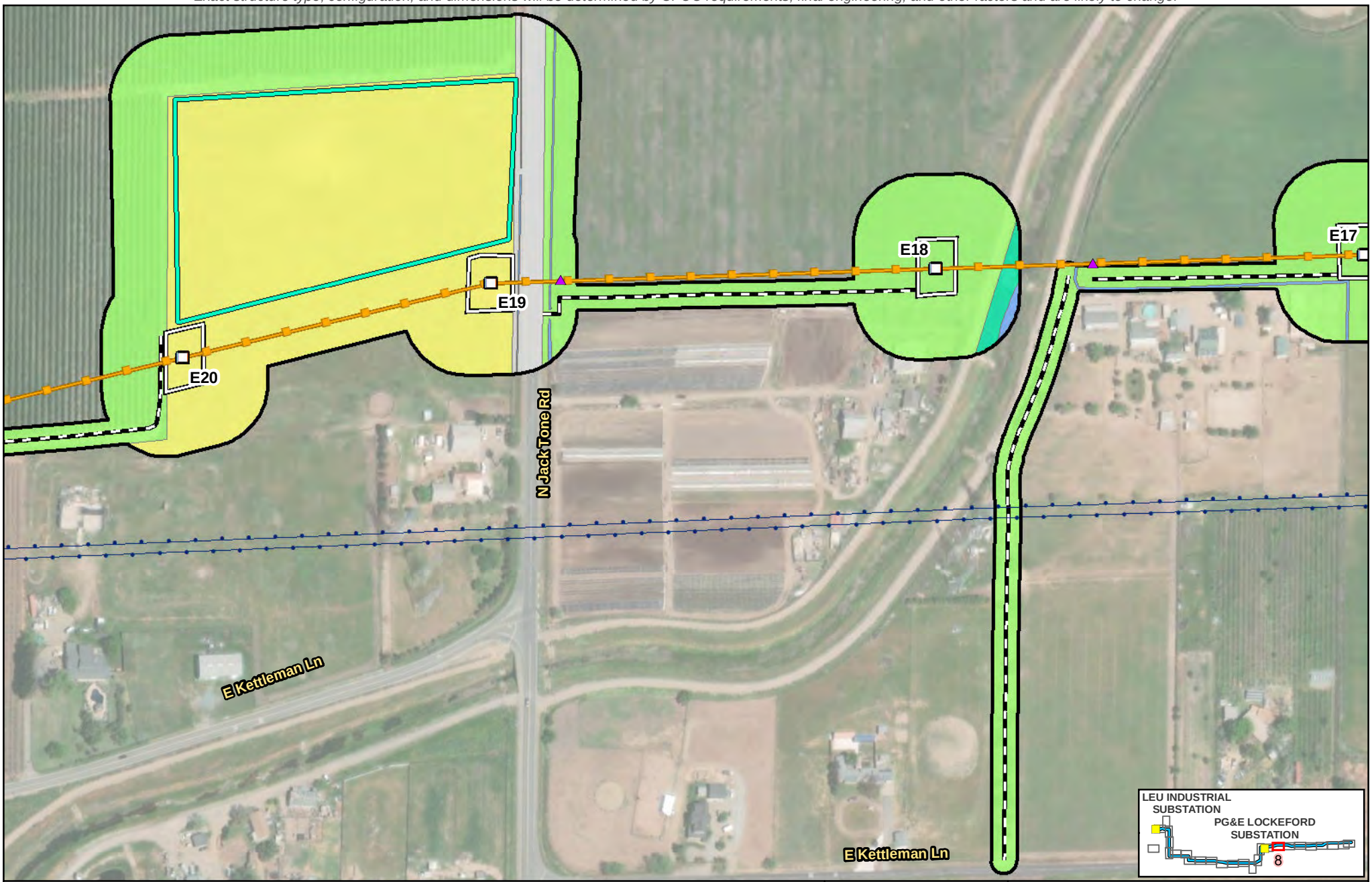

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- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Grassland
- Other Waters
- Riparian

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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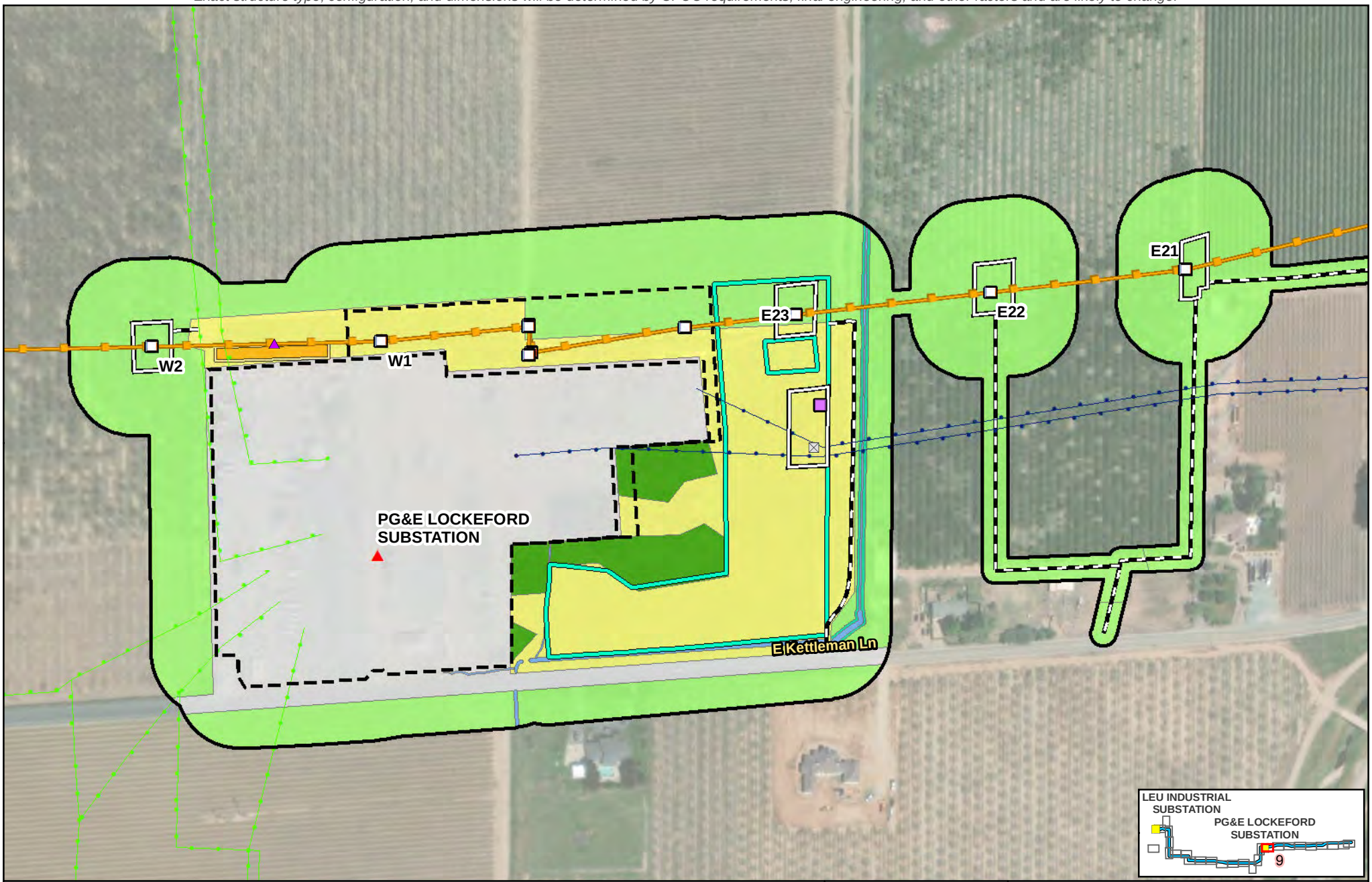

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- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Grassland
- Other Waters
- Riparian
- Tree Cover

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 9 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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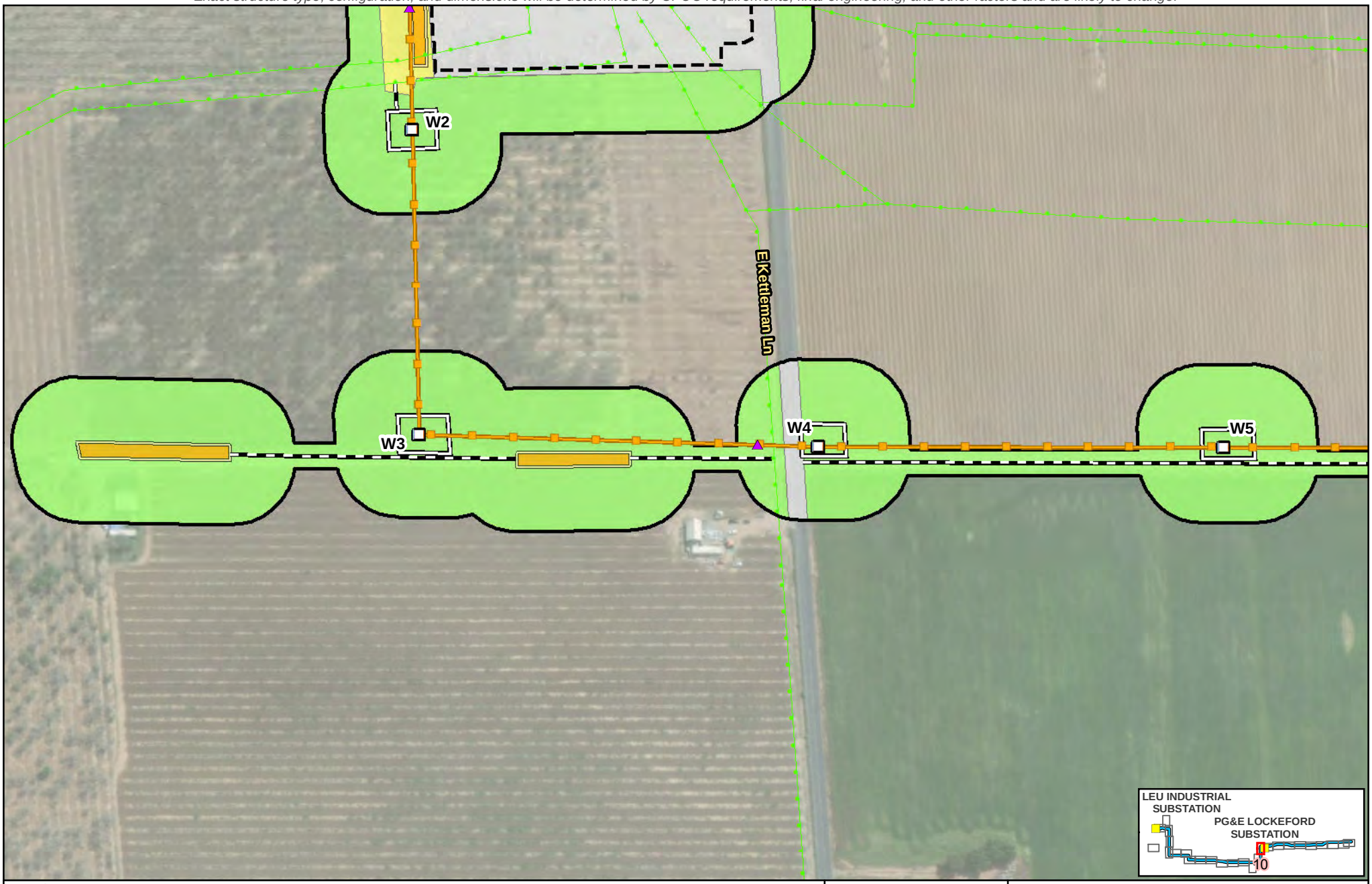

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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Grassland

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 10 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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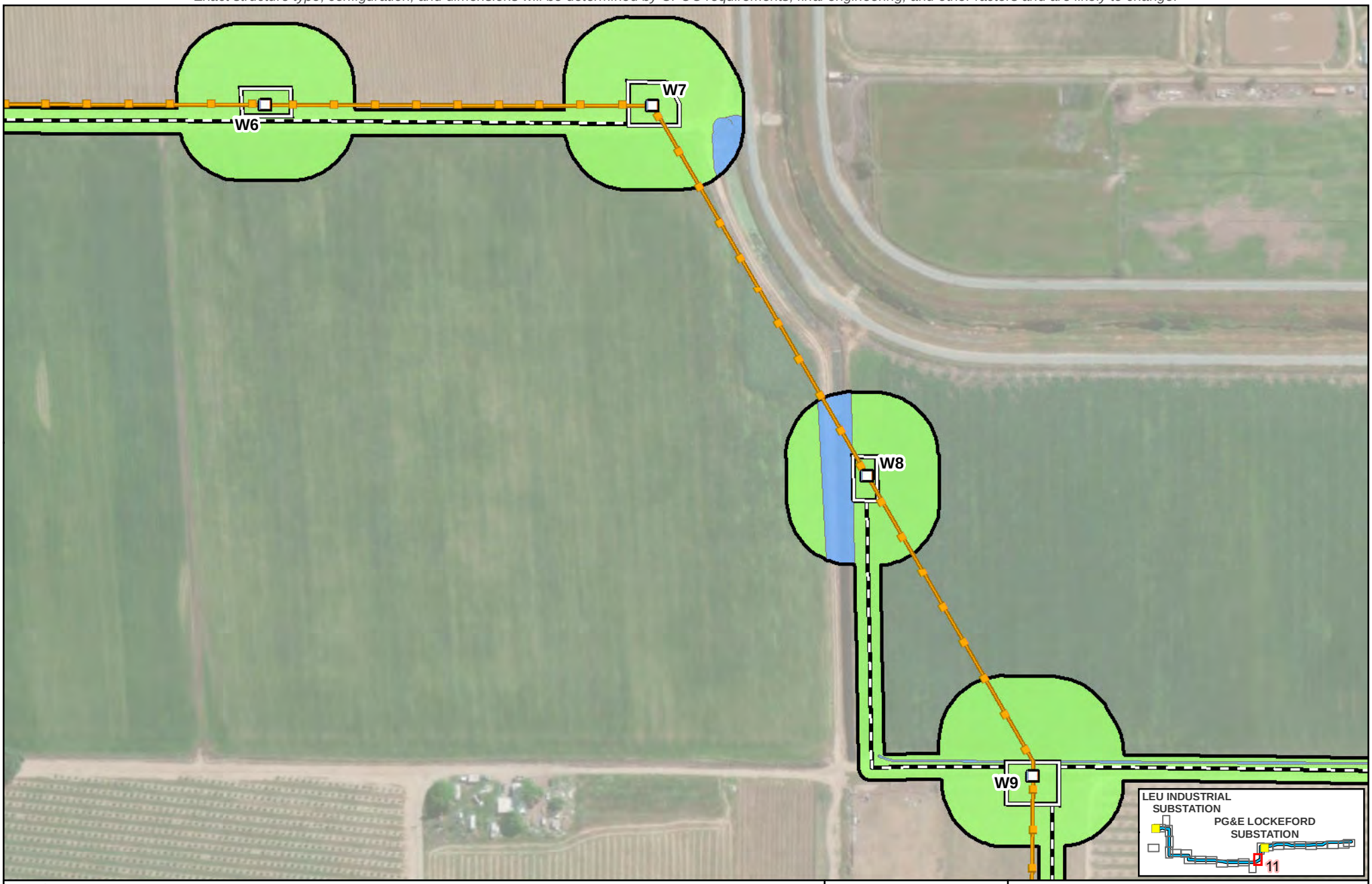

Legend

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- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Other Waters

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 11 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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Legend

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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Other Waters
- Riparian

Source:
1) Esri World Imagery

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 12 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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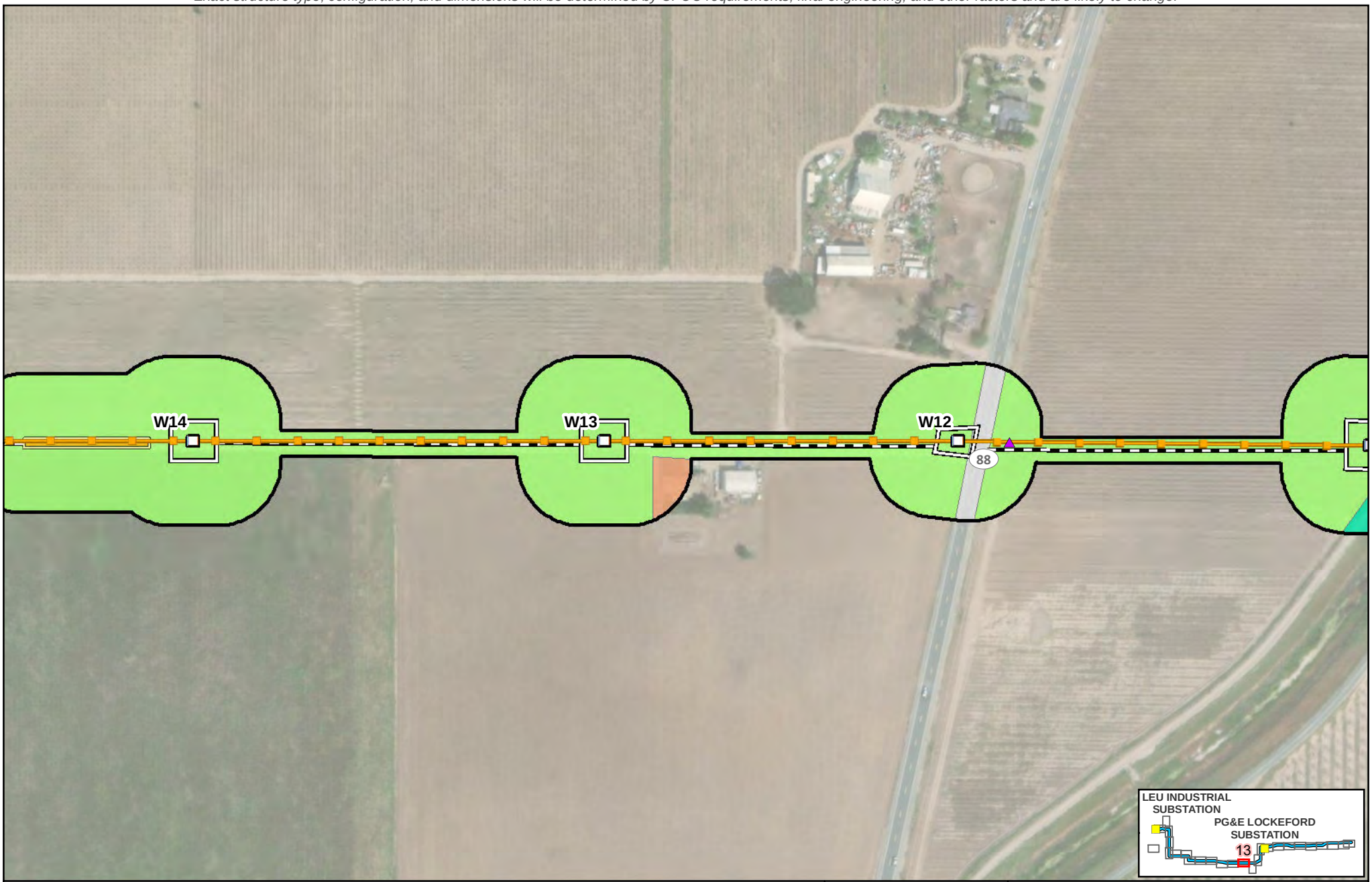

Legend

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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Riparian
- Ruderal

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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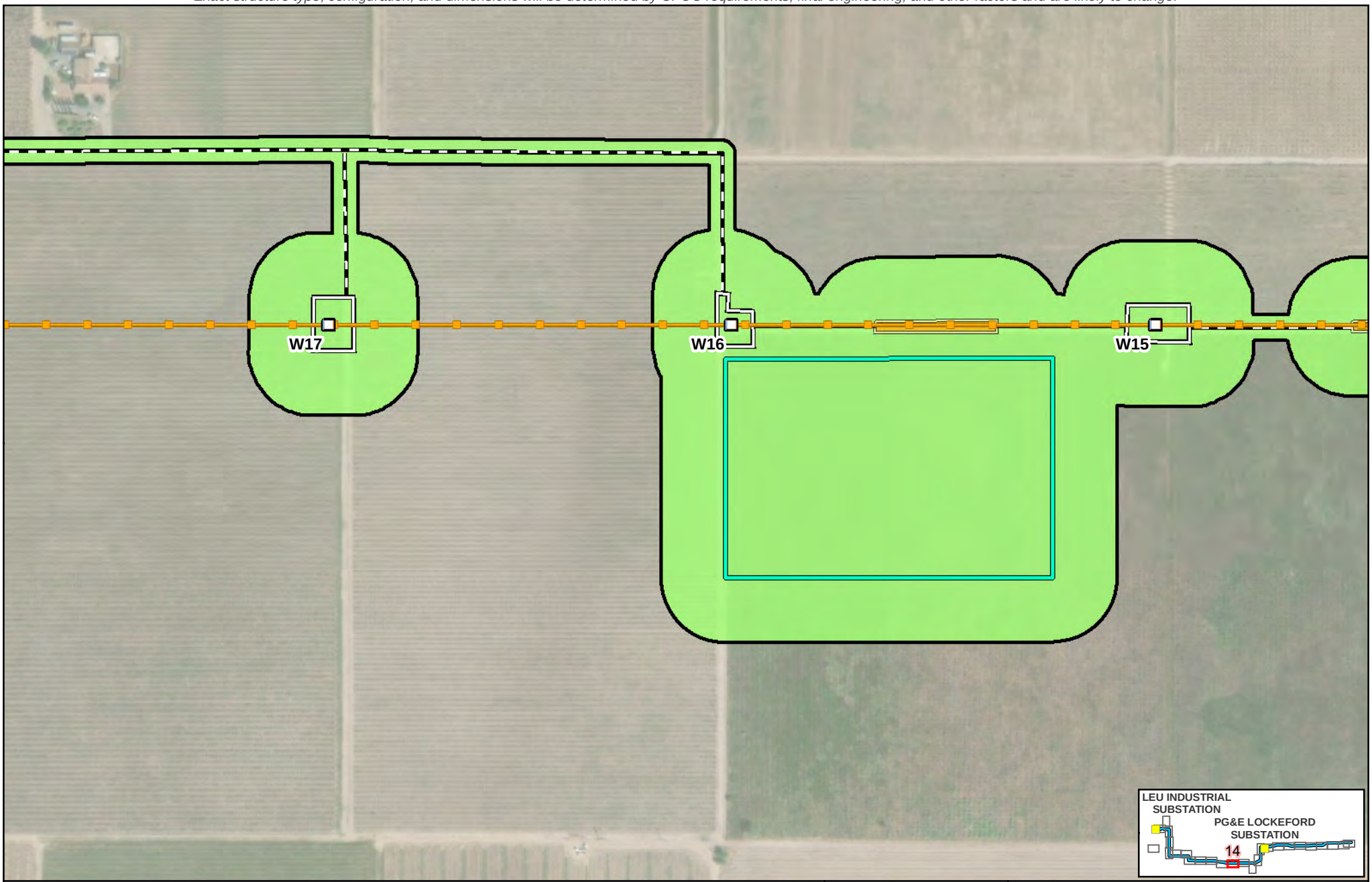

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- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 14 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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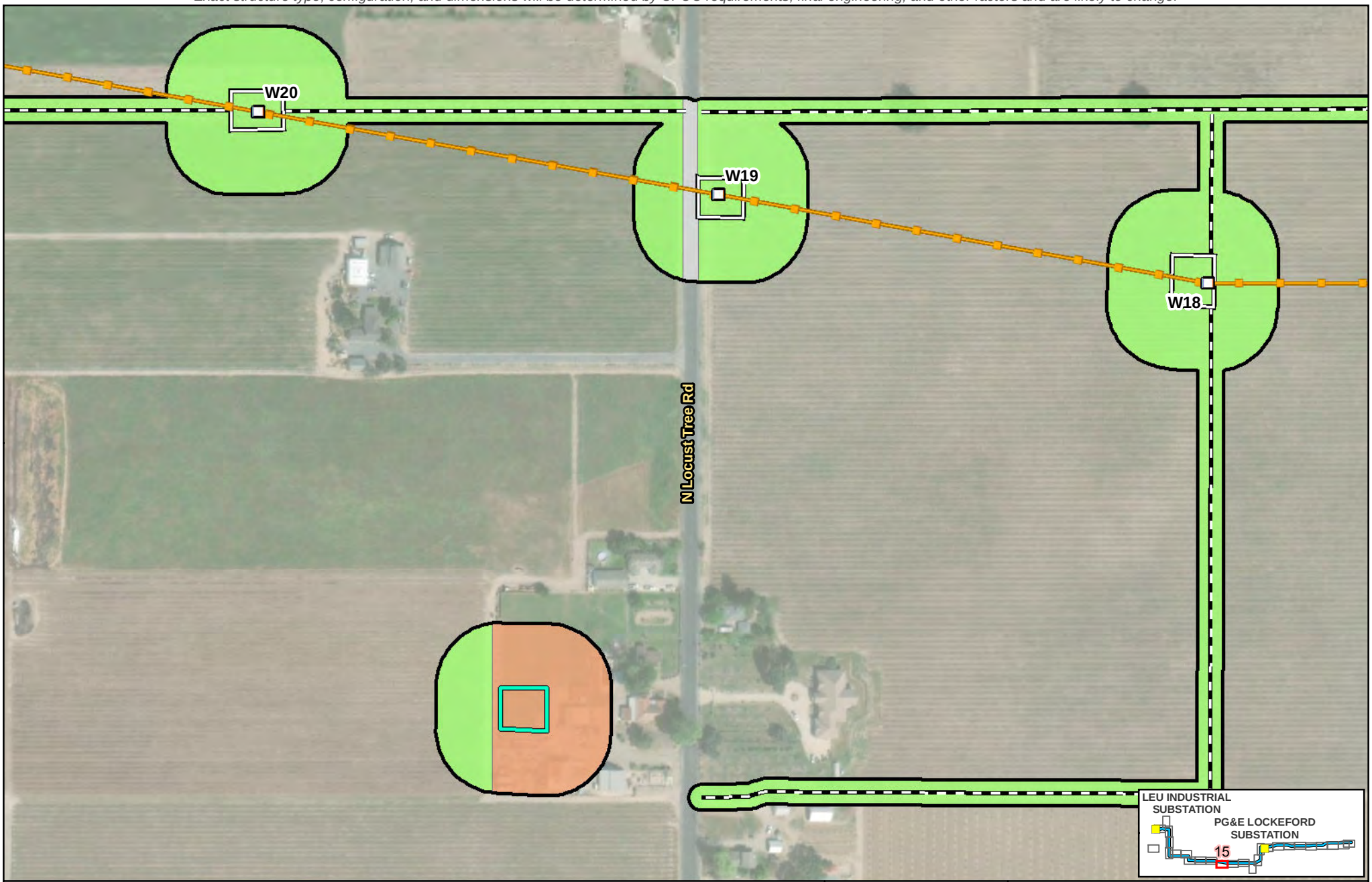

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- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Ruderal

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 15 of 26
Northern San Joaquin 230 kV Transmission Project

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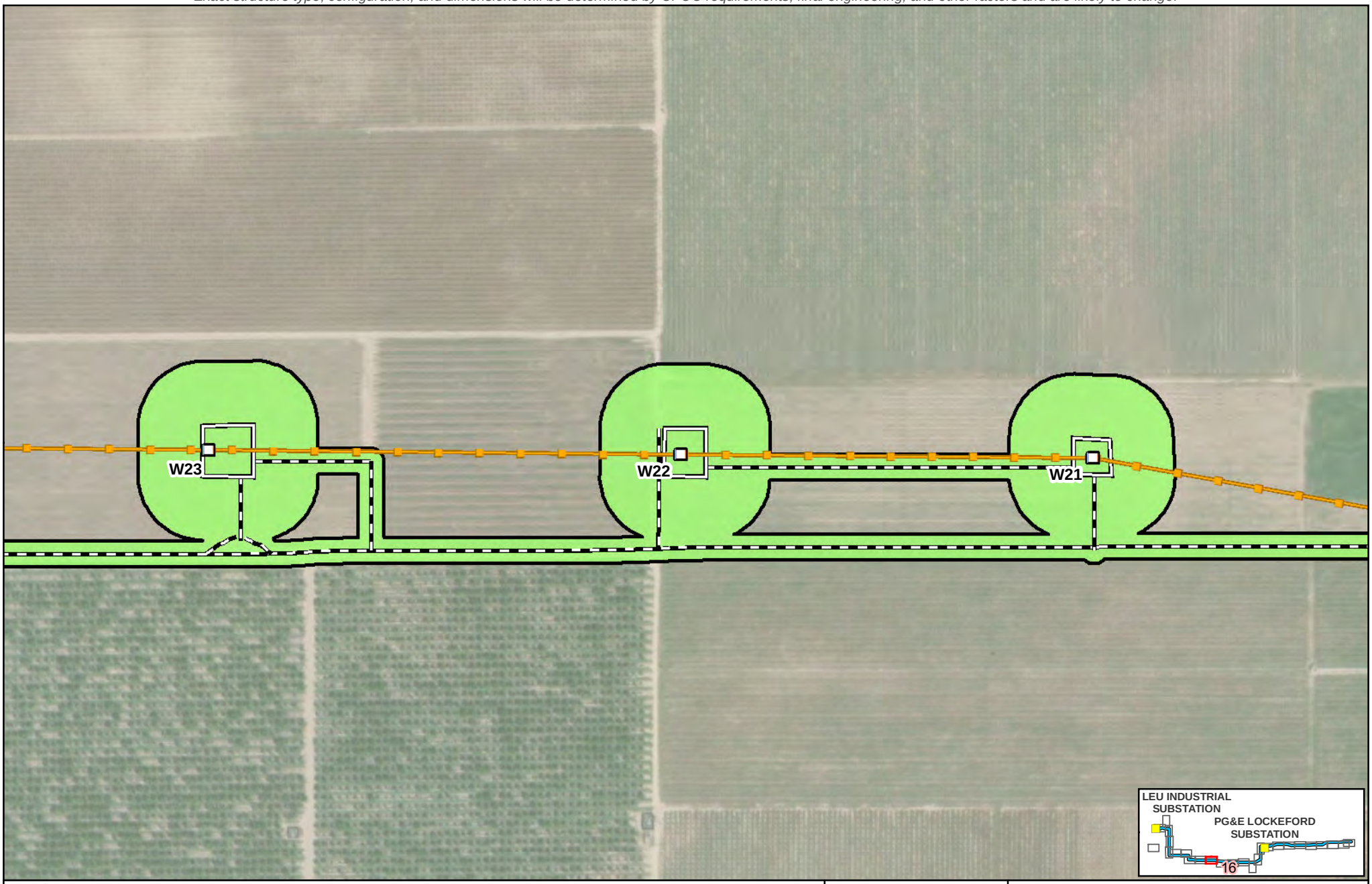

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- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 16 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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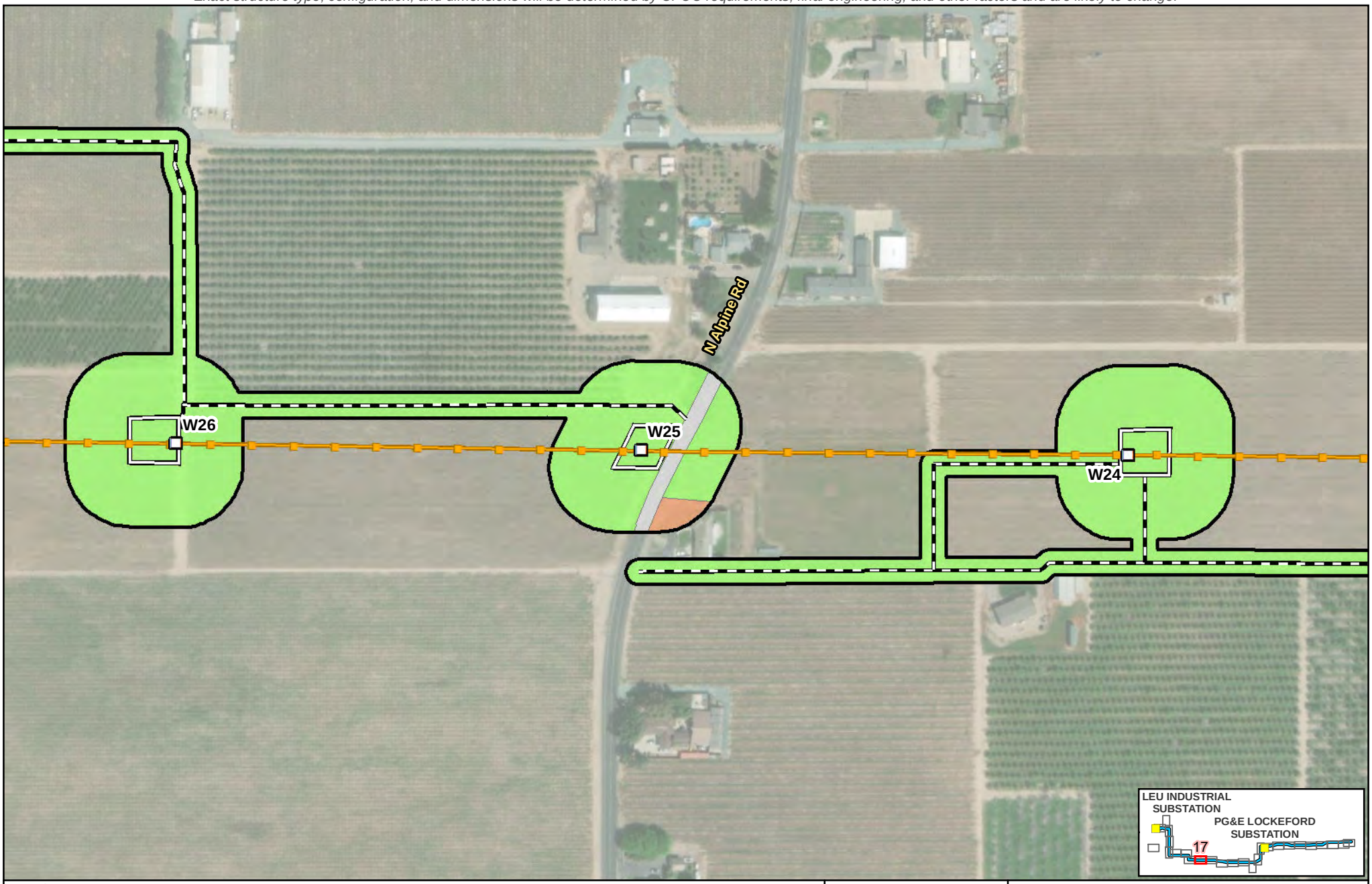

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- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Ruderal

Source:
1) Esri World Imagery

0 100 Feet

N

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 17 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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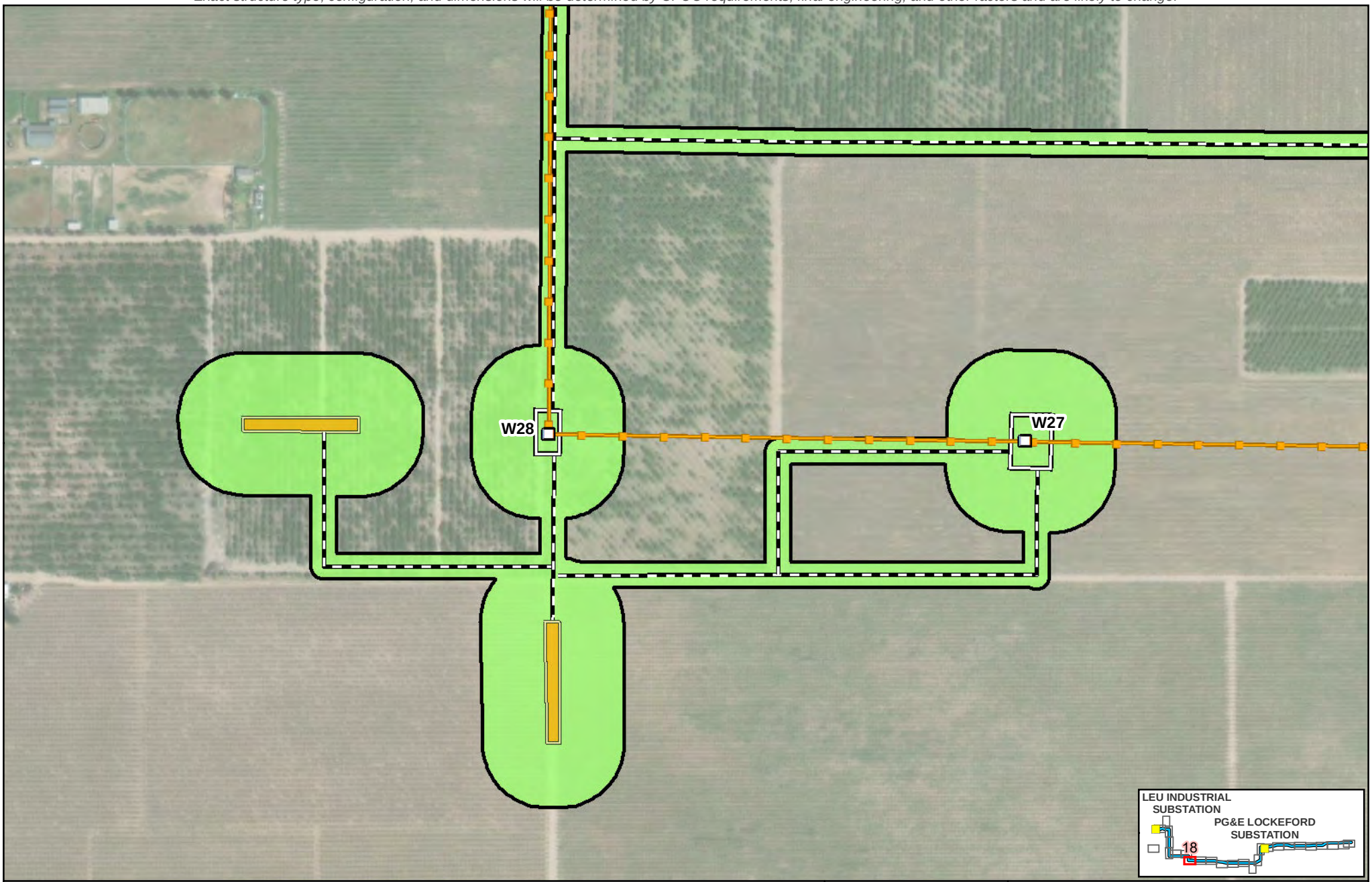

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- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

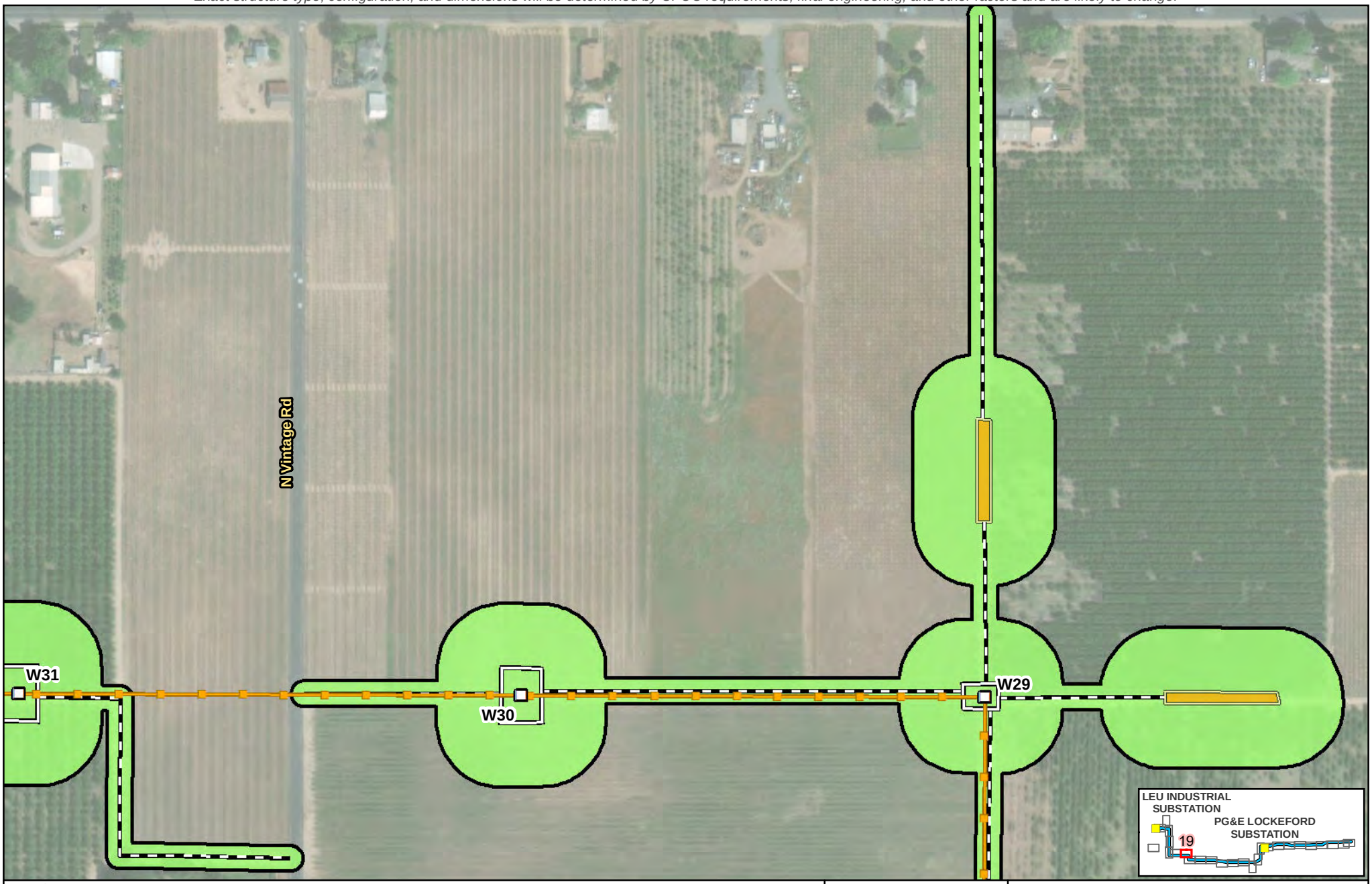
0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 18 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 19 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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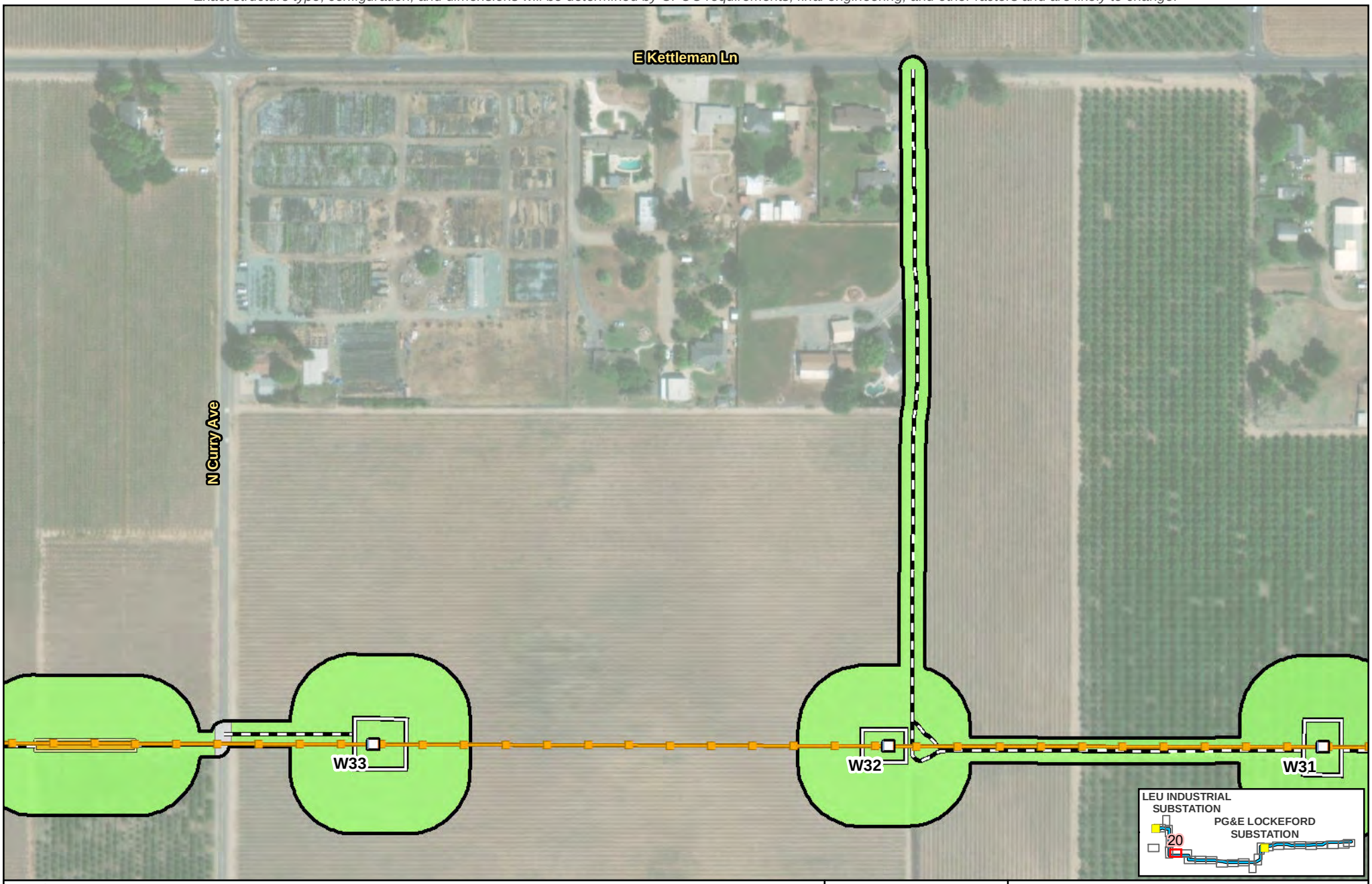

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 20 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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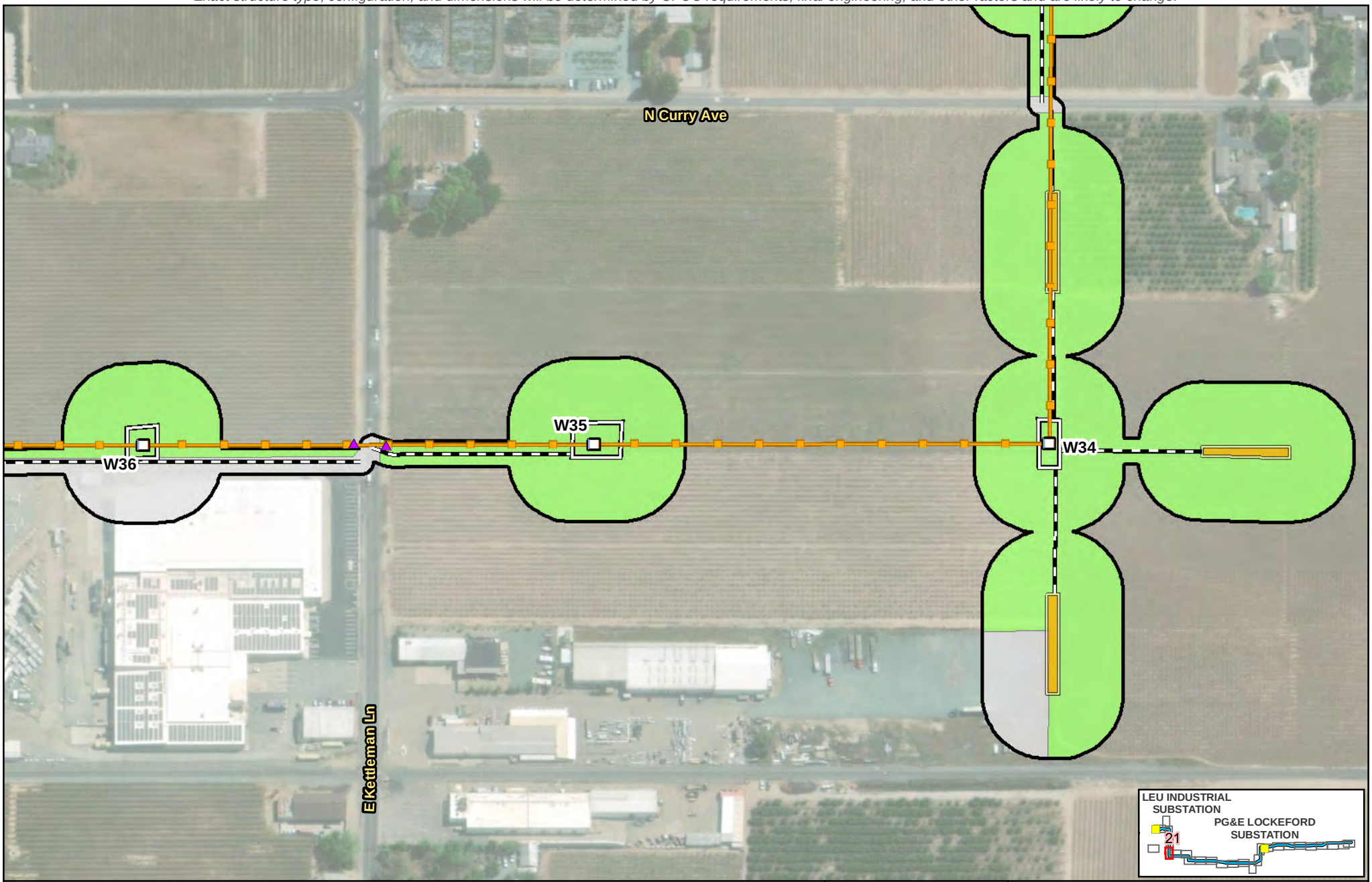

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 21 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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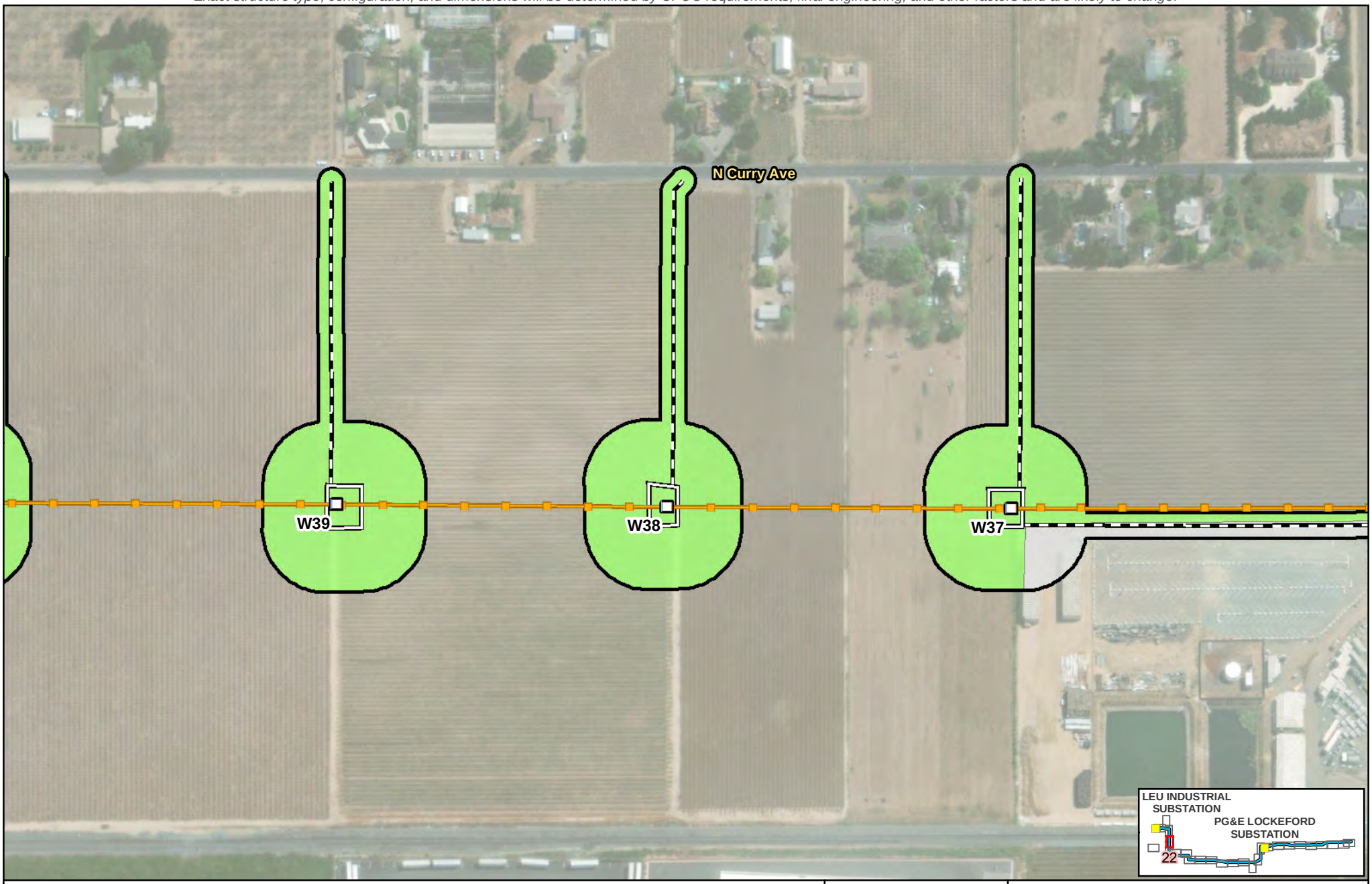

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed

Source:
1) Esri World Imagery

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 22 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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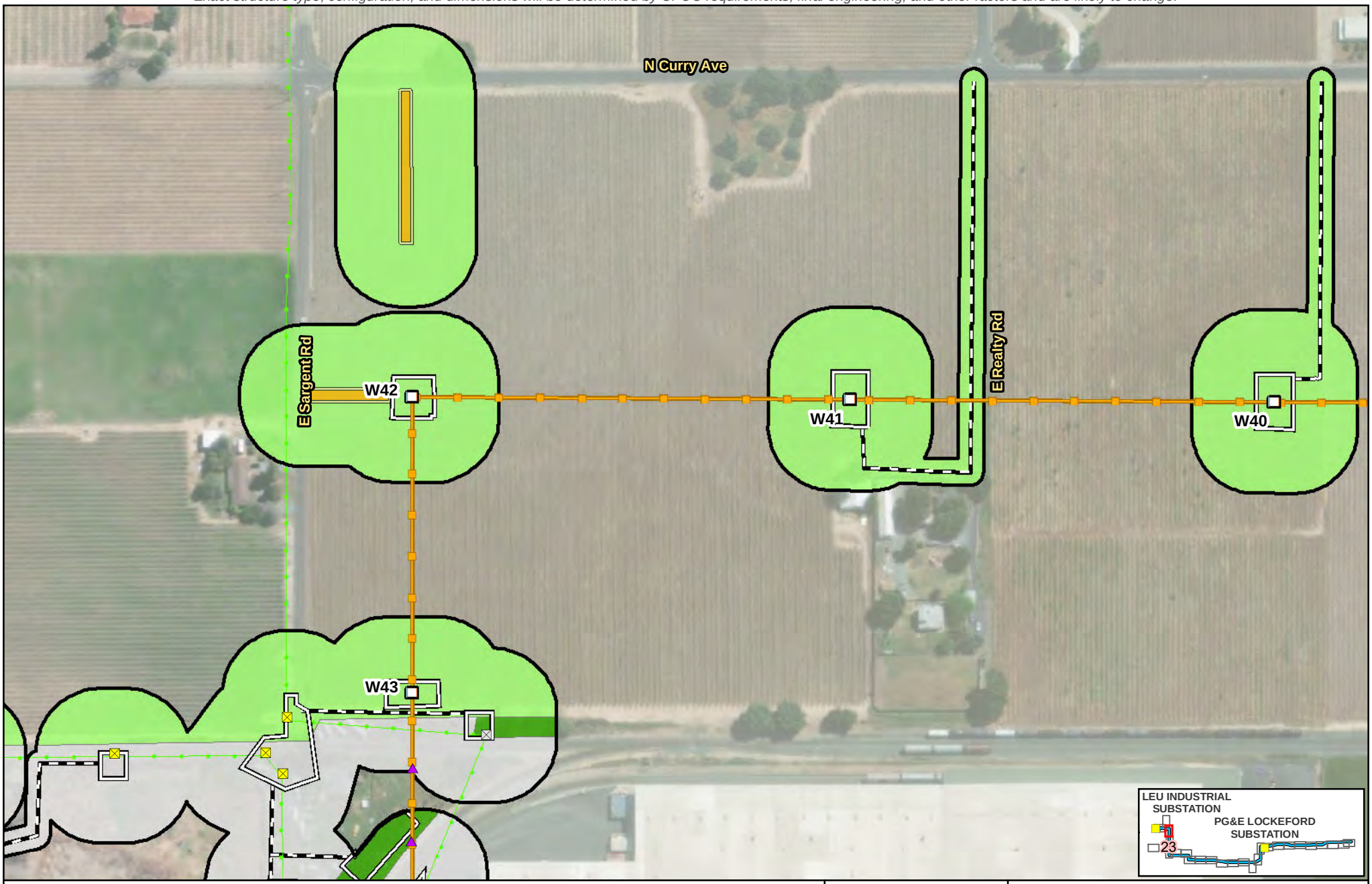

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Tree Cover

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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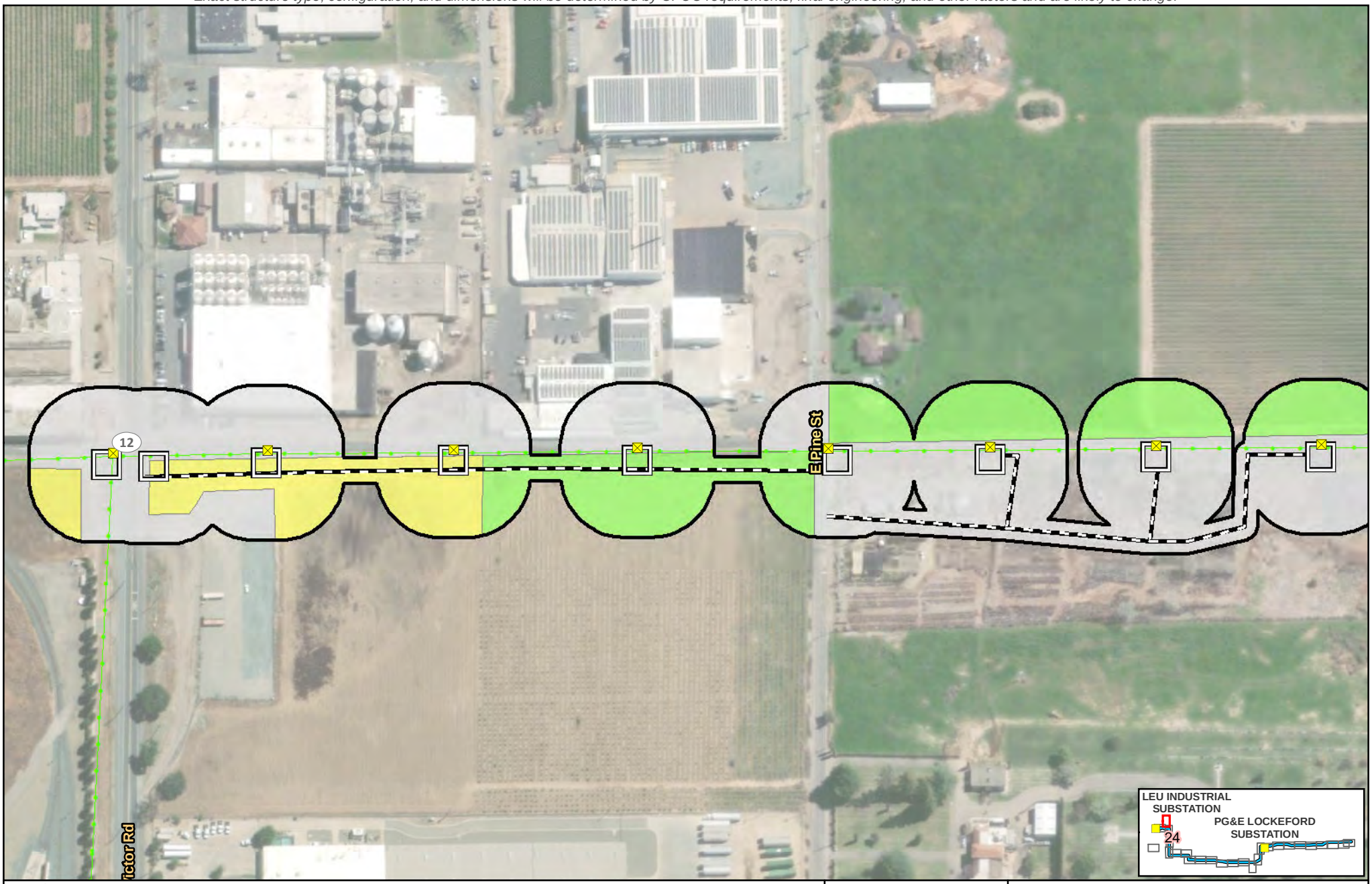

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed
- Grassland

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 24 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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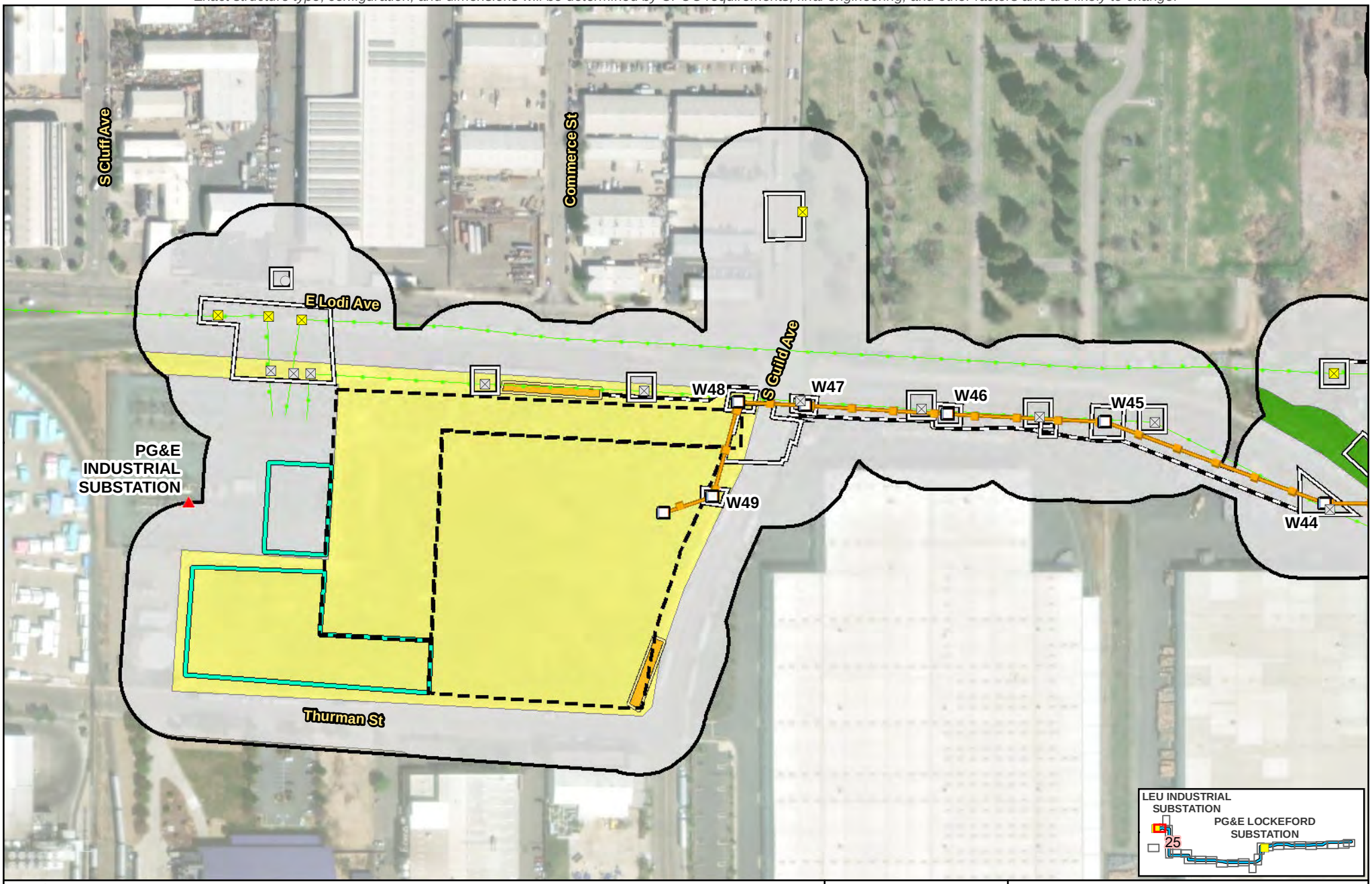

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Developed/Disturbed
- Grassland
- Tree Cover

Source:
1) Esri World Imagery

0 100 Feet

N

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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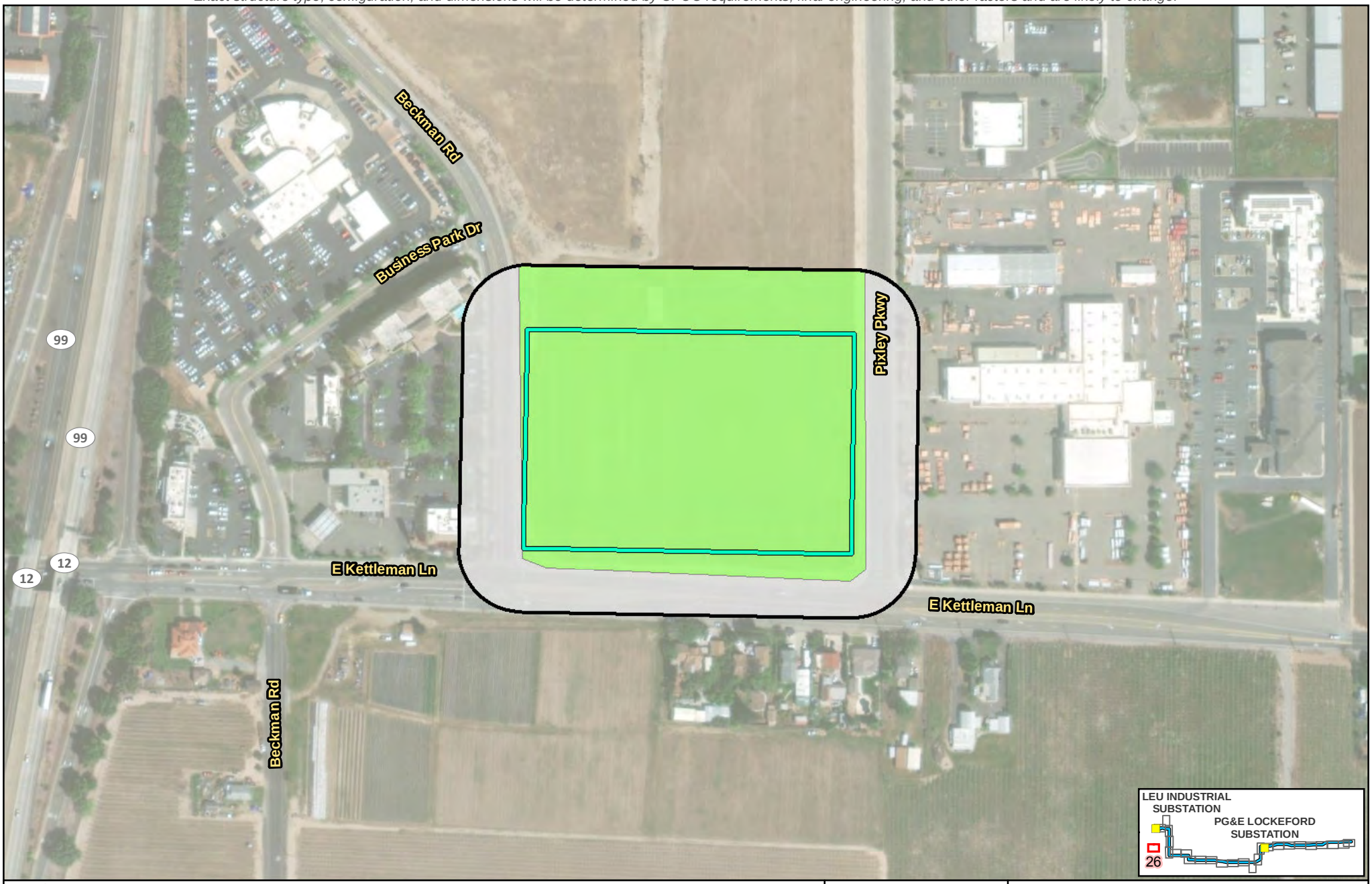

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Land Cover

- Agriculture
- Developed/Disturbed

Source:
1) Esri World Imagery

N

0 100 Feet

Scale: 1:3,000

FIGURE 5.4-2
Land Cover within the Biological Study Area
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-2_230730.mxd kgrant1 8/1/2023

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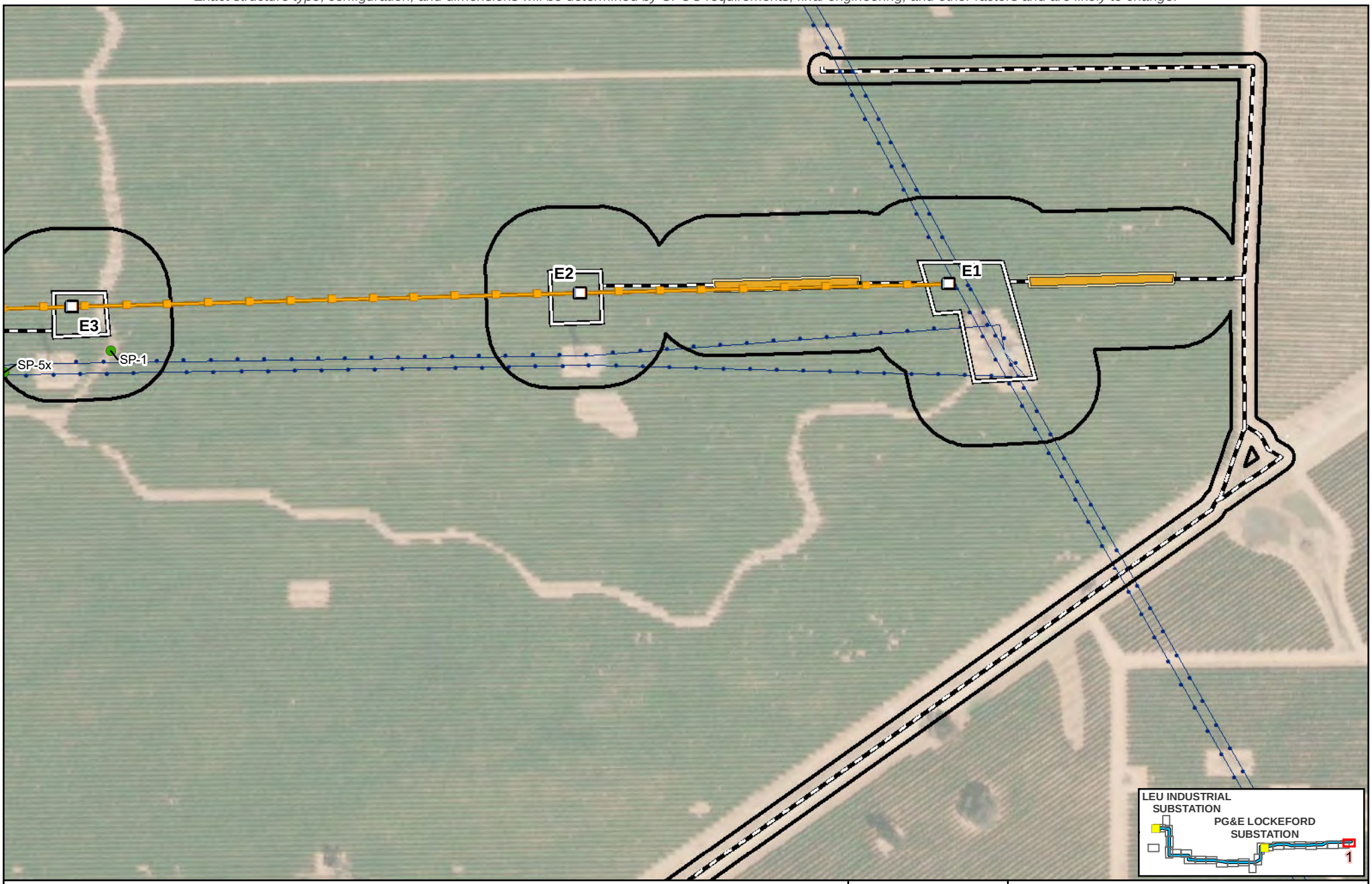

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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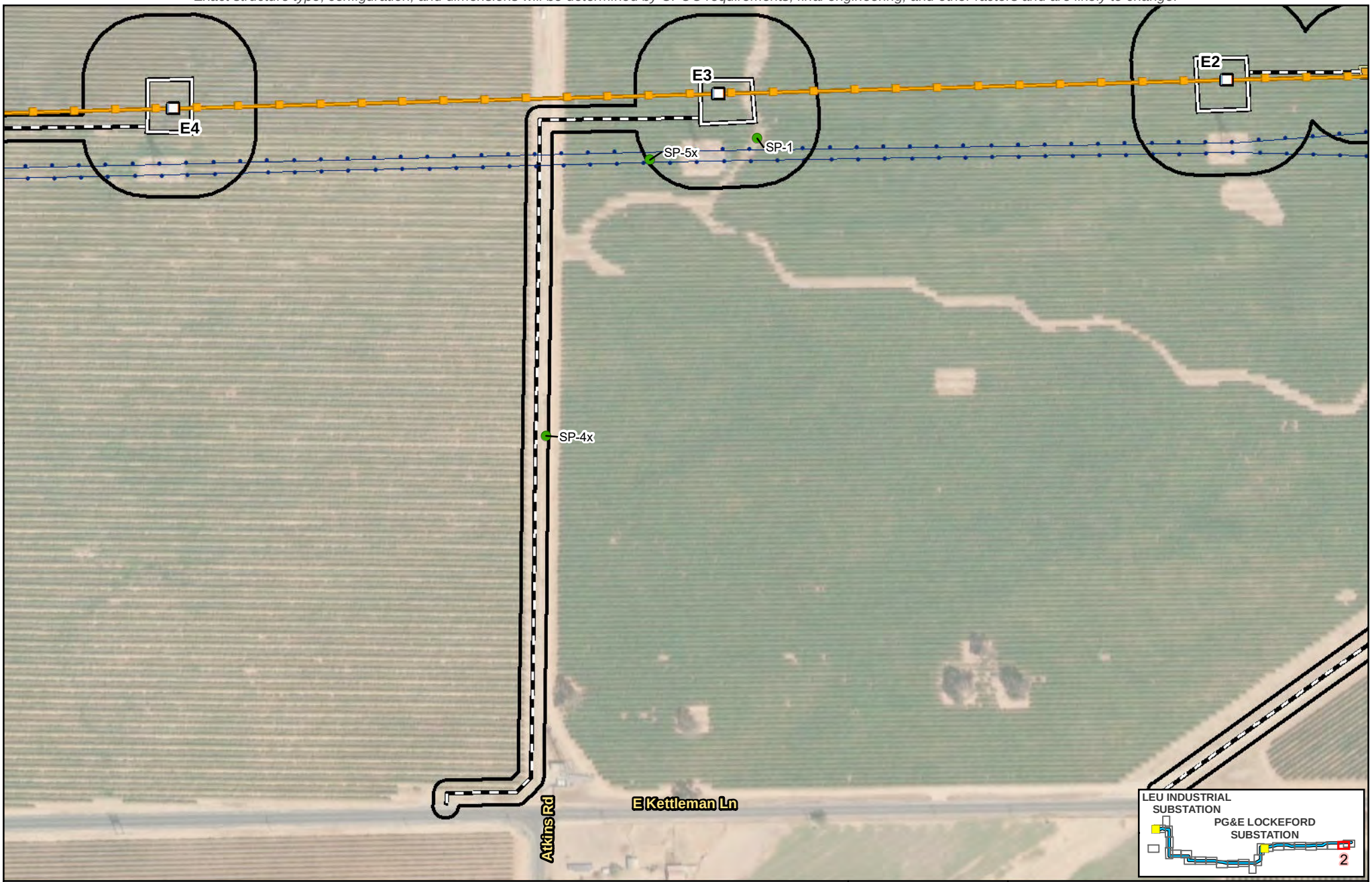

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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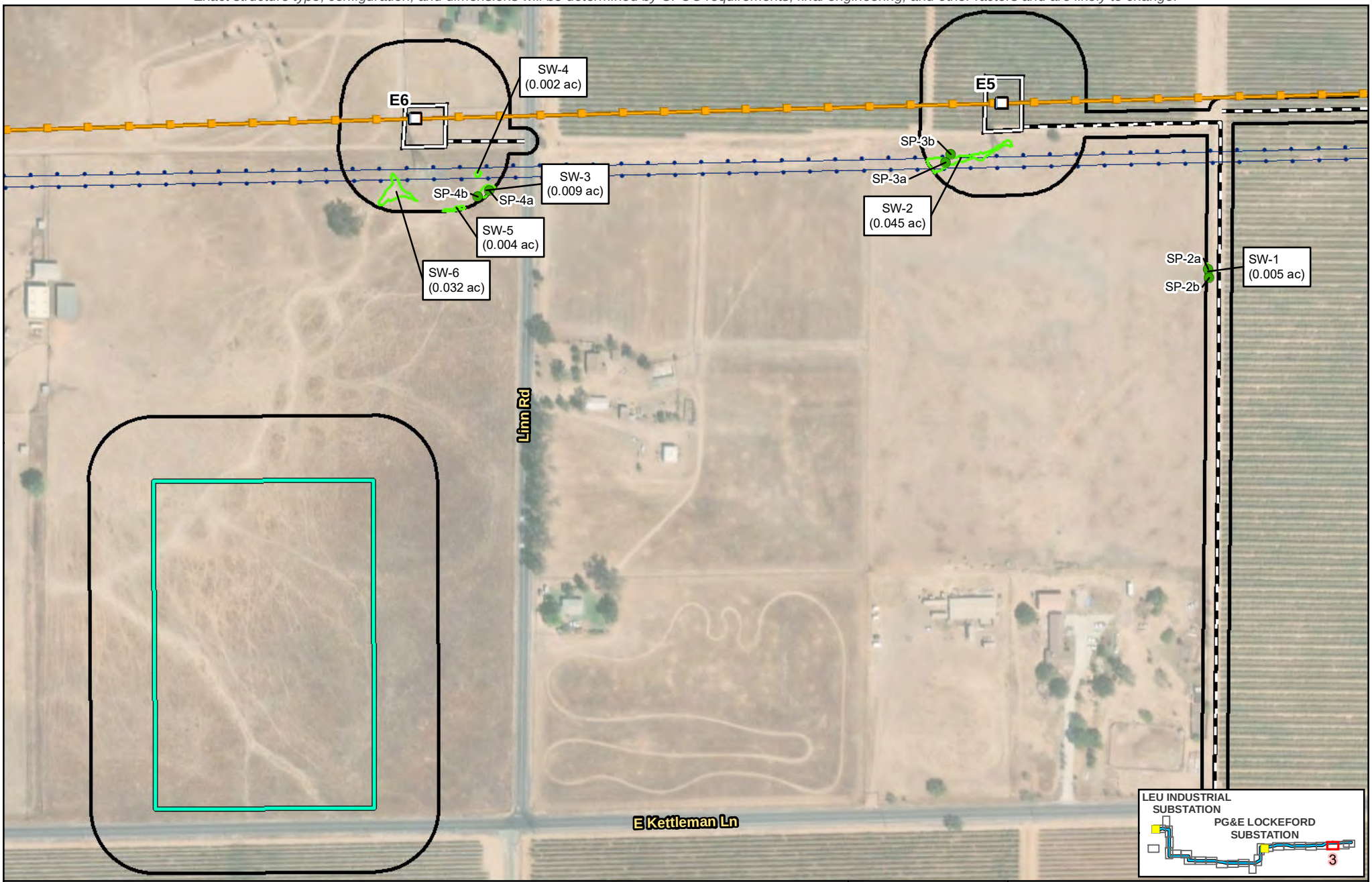

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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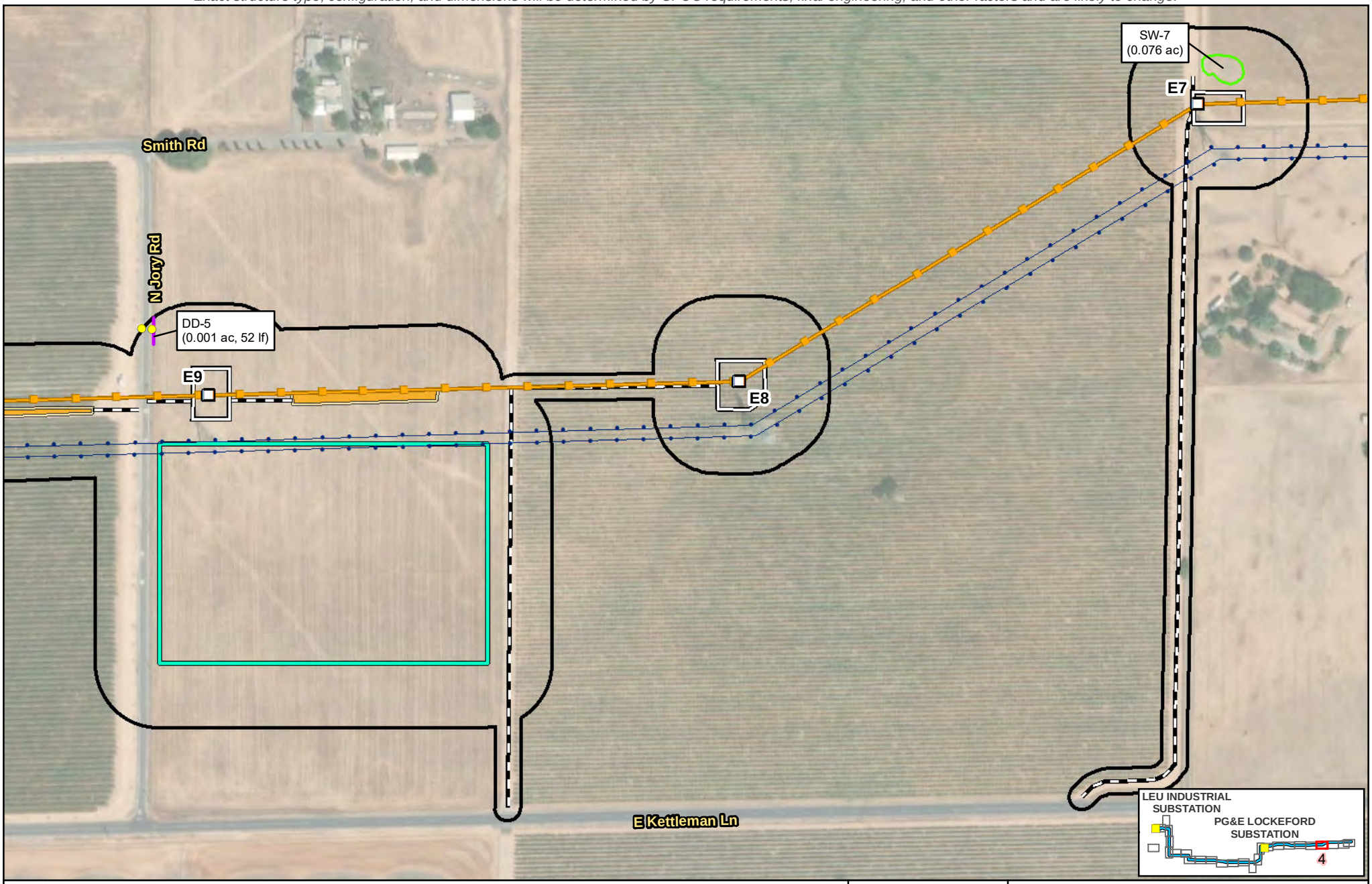

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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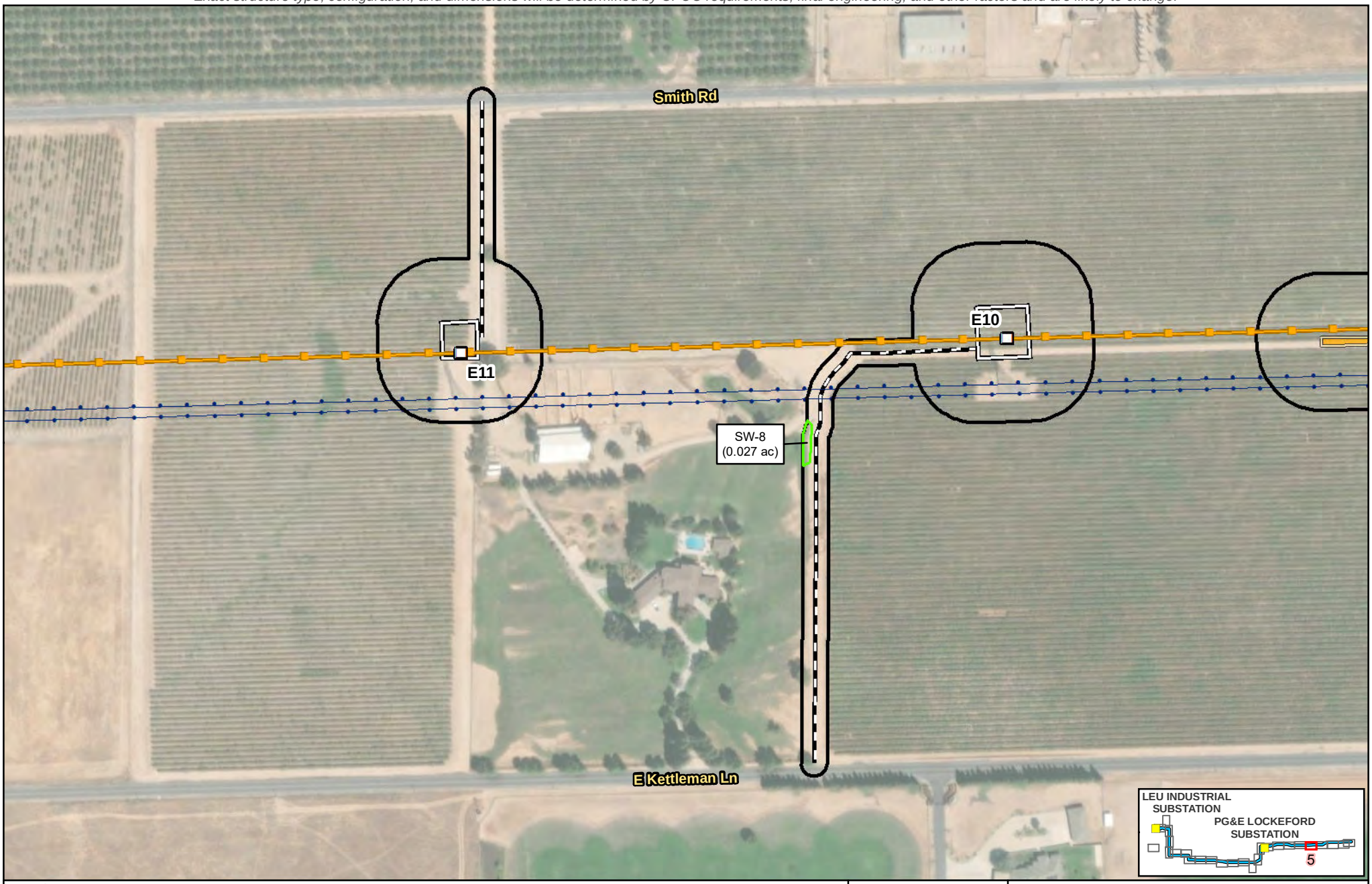

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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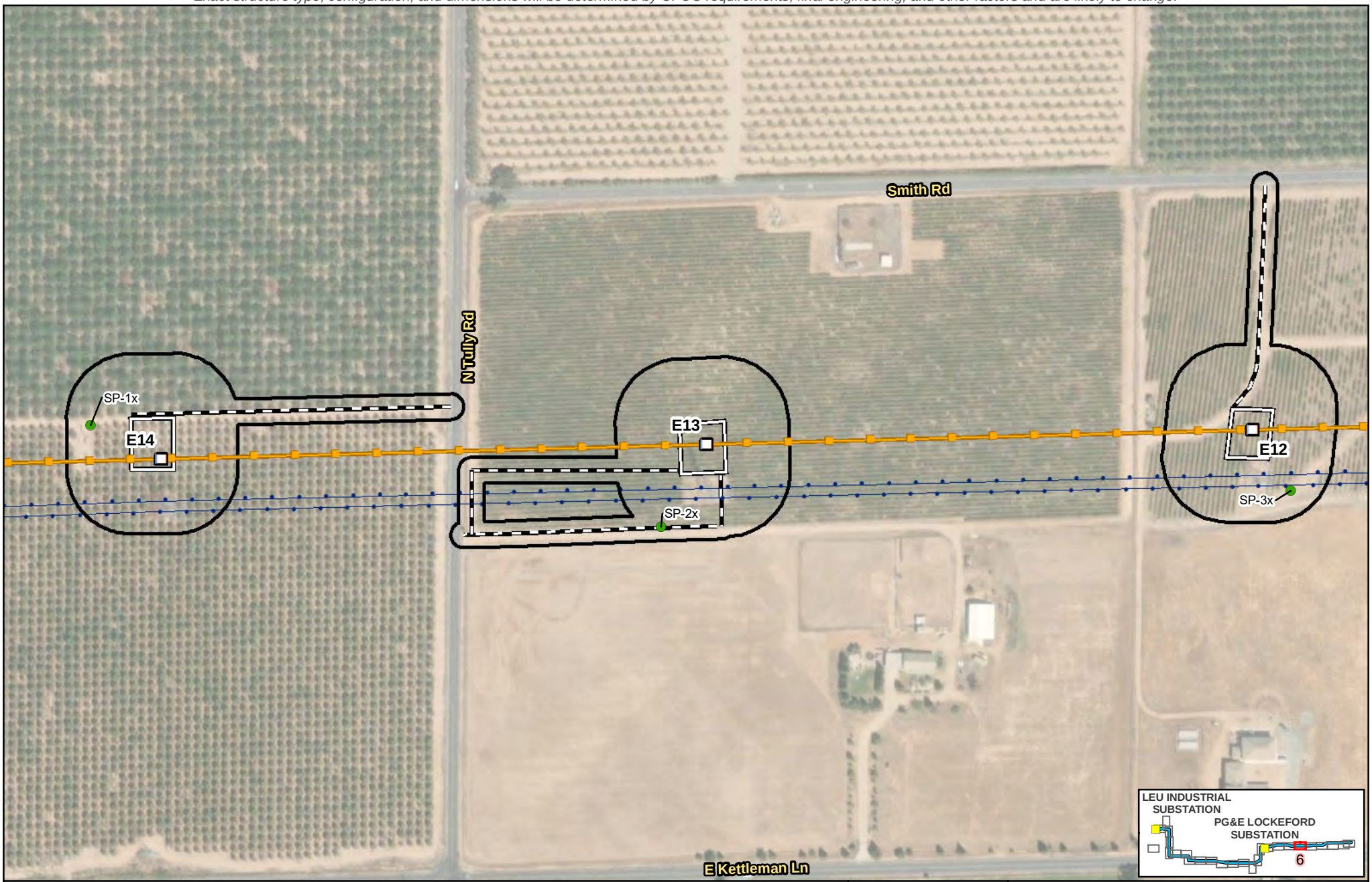

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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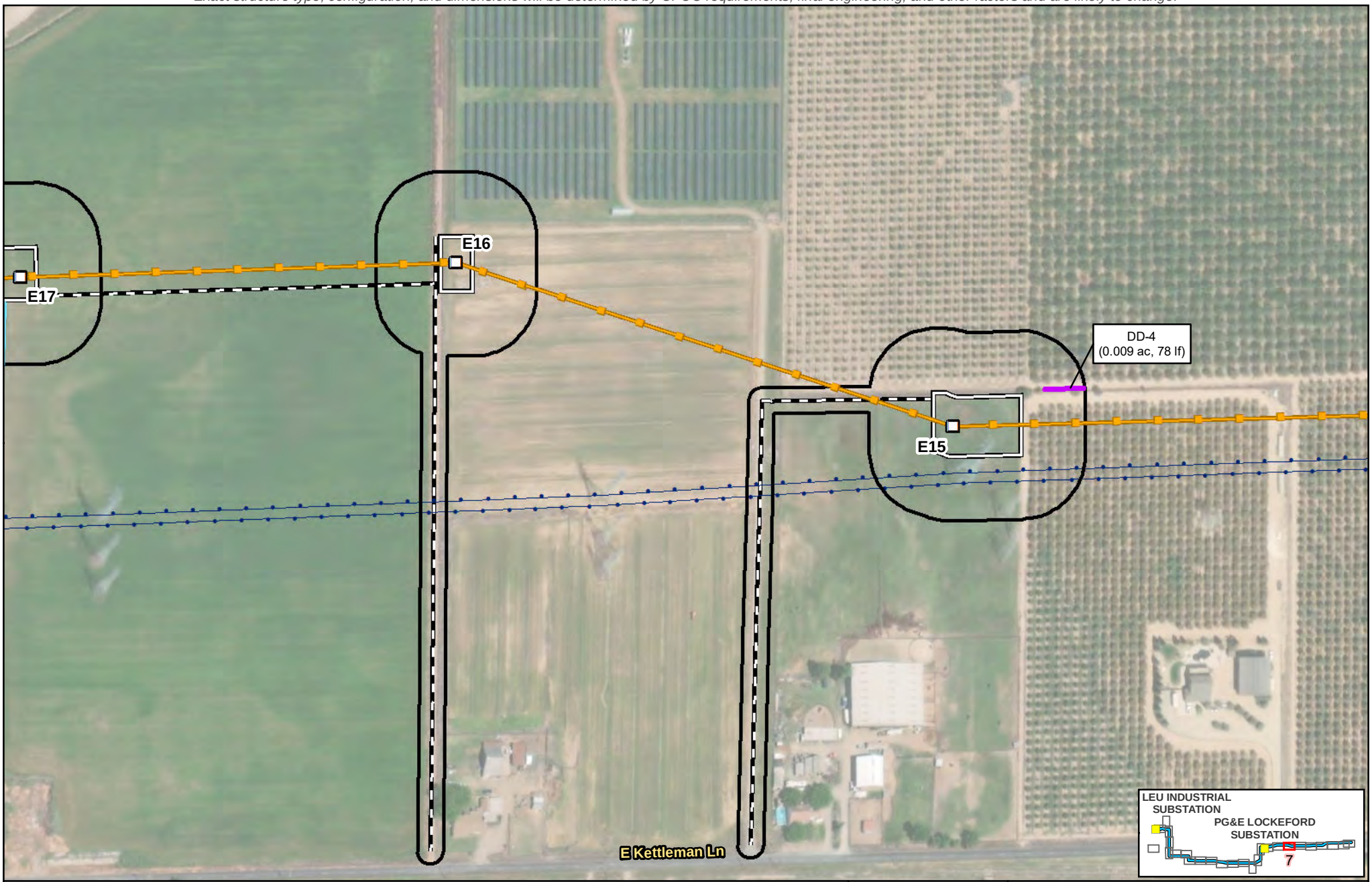

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 7 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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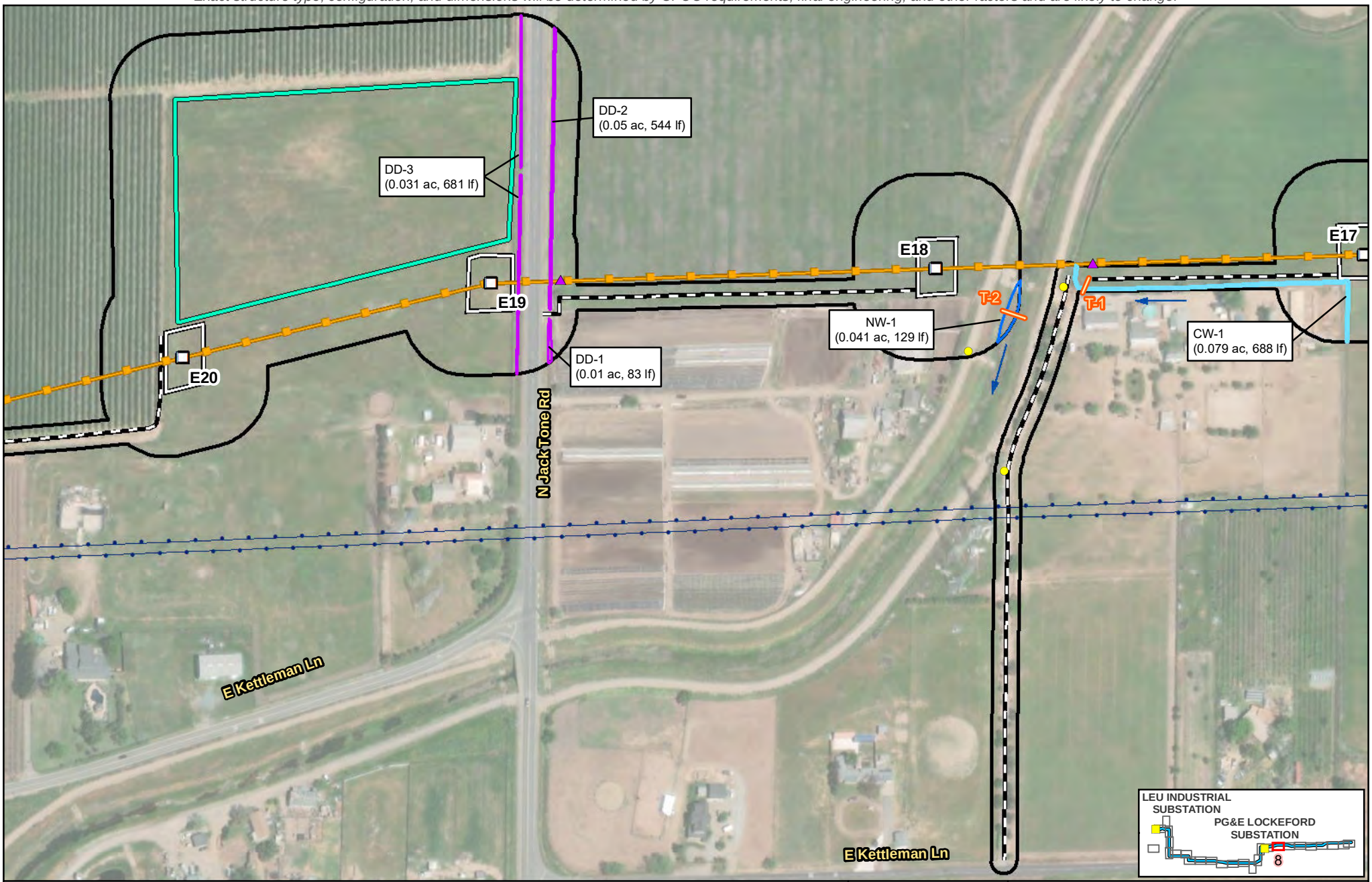

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Natural Watercourse (NW) (0.247 ac, 359 lf)
- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert
- Flow Direction
- Transect

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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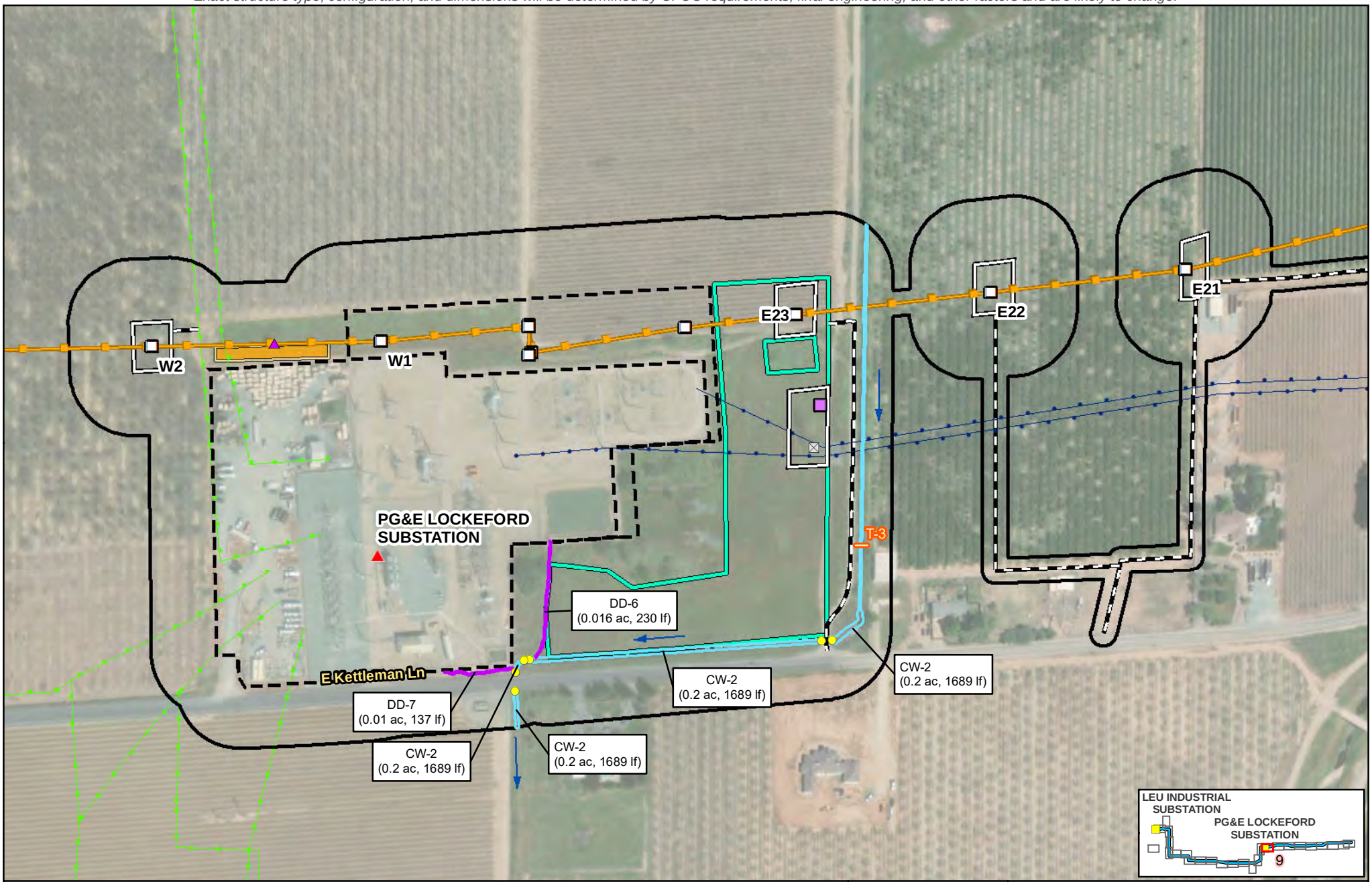


Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert
- Flow Direction
- Transect

Source: 1) Esri World Imagery

N

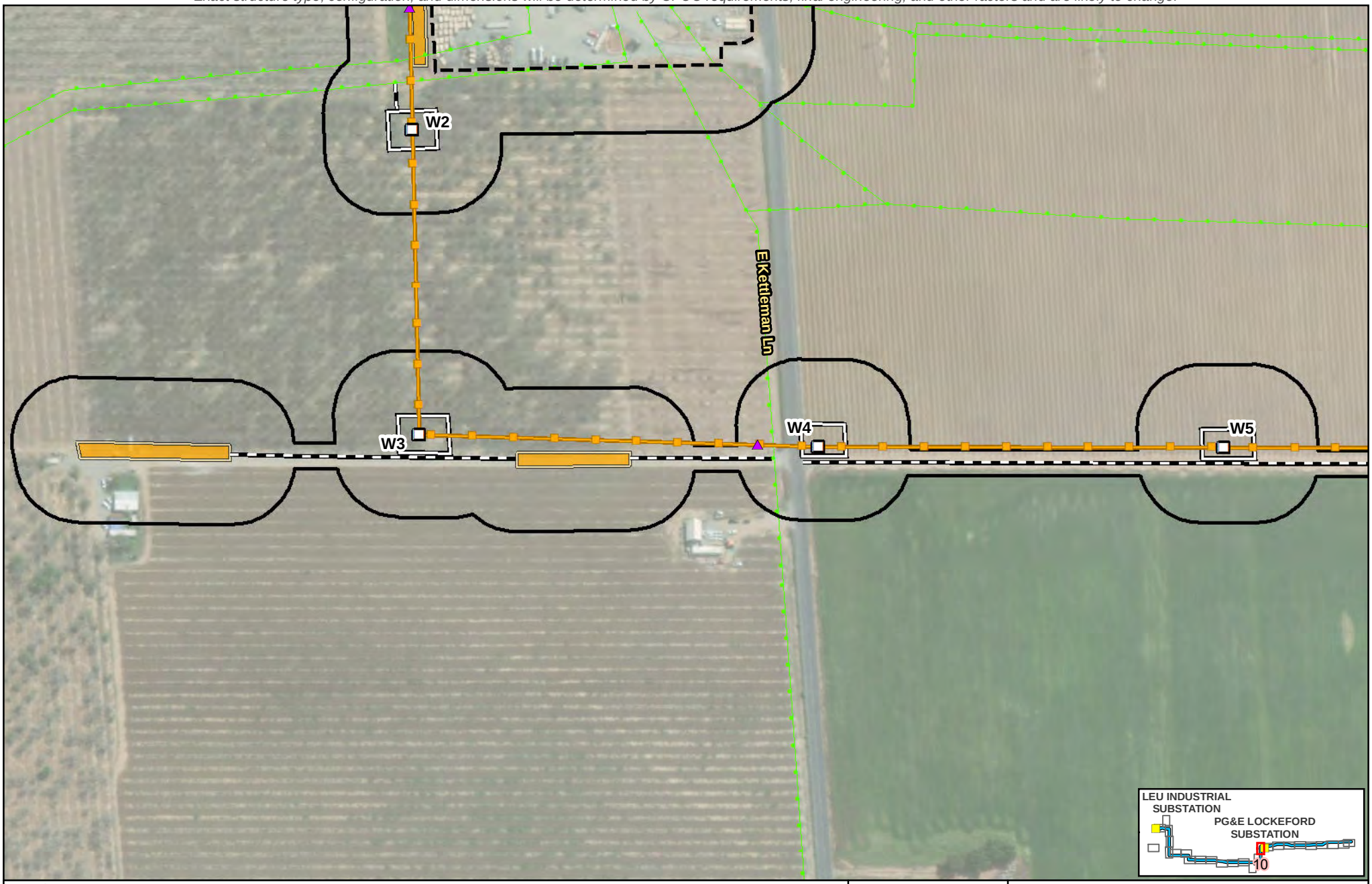
Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 9 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 10 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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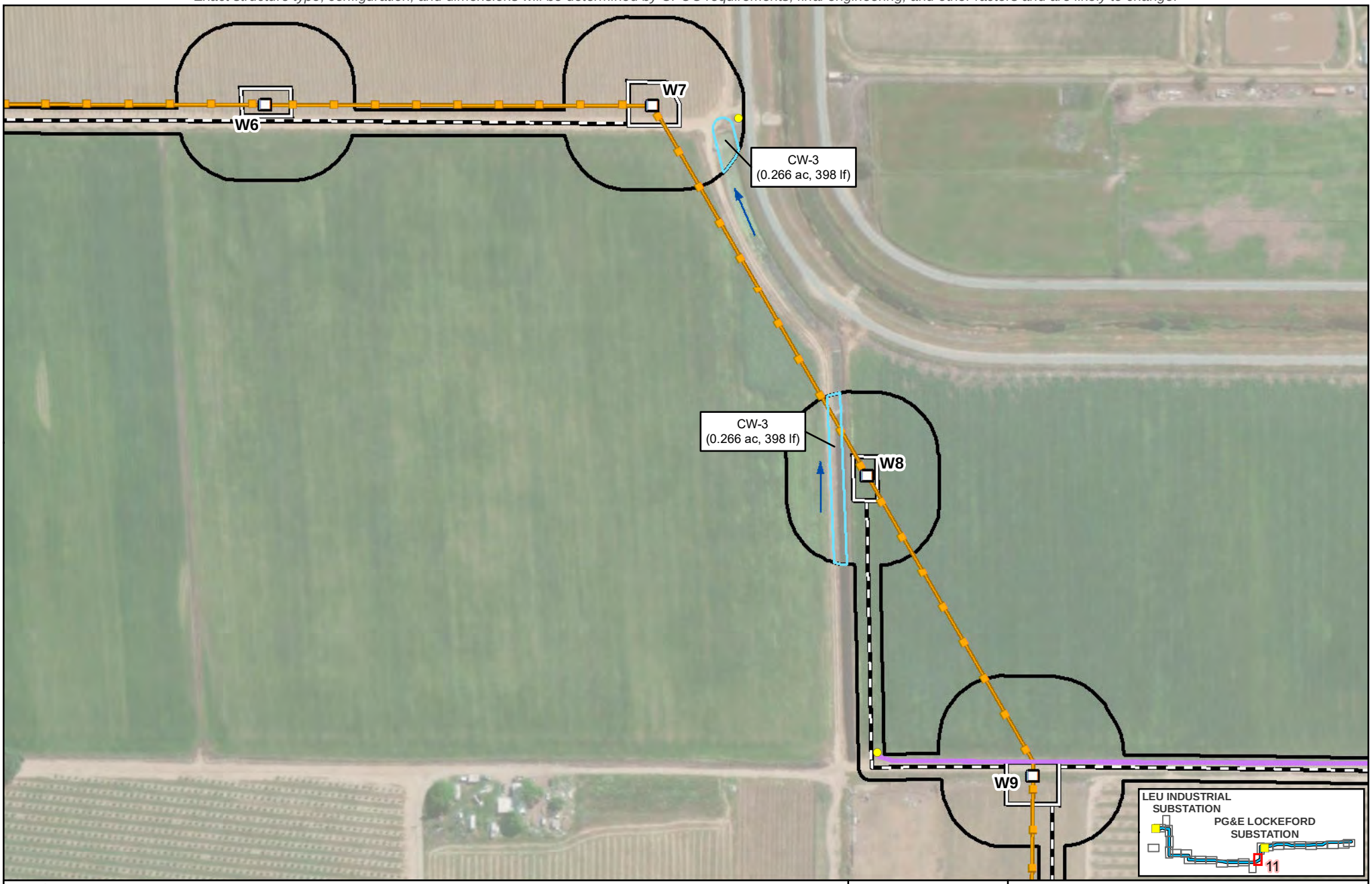


Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Irrigation Ditch (ID) (0.152 ac, 1,654 lf)
- Culvert
- Flow Direction

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 11 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Natural Watercourse (NW) (0.247 ac, 359 lf)
- Irrigation Ditch (ID) (0.152 ac, 1,654 lf)
- Flow Direction
- Transect

Source:
1) Esri World Imagery

N

Scale: 1:3,000

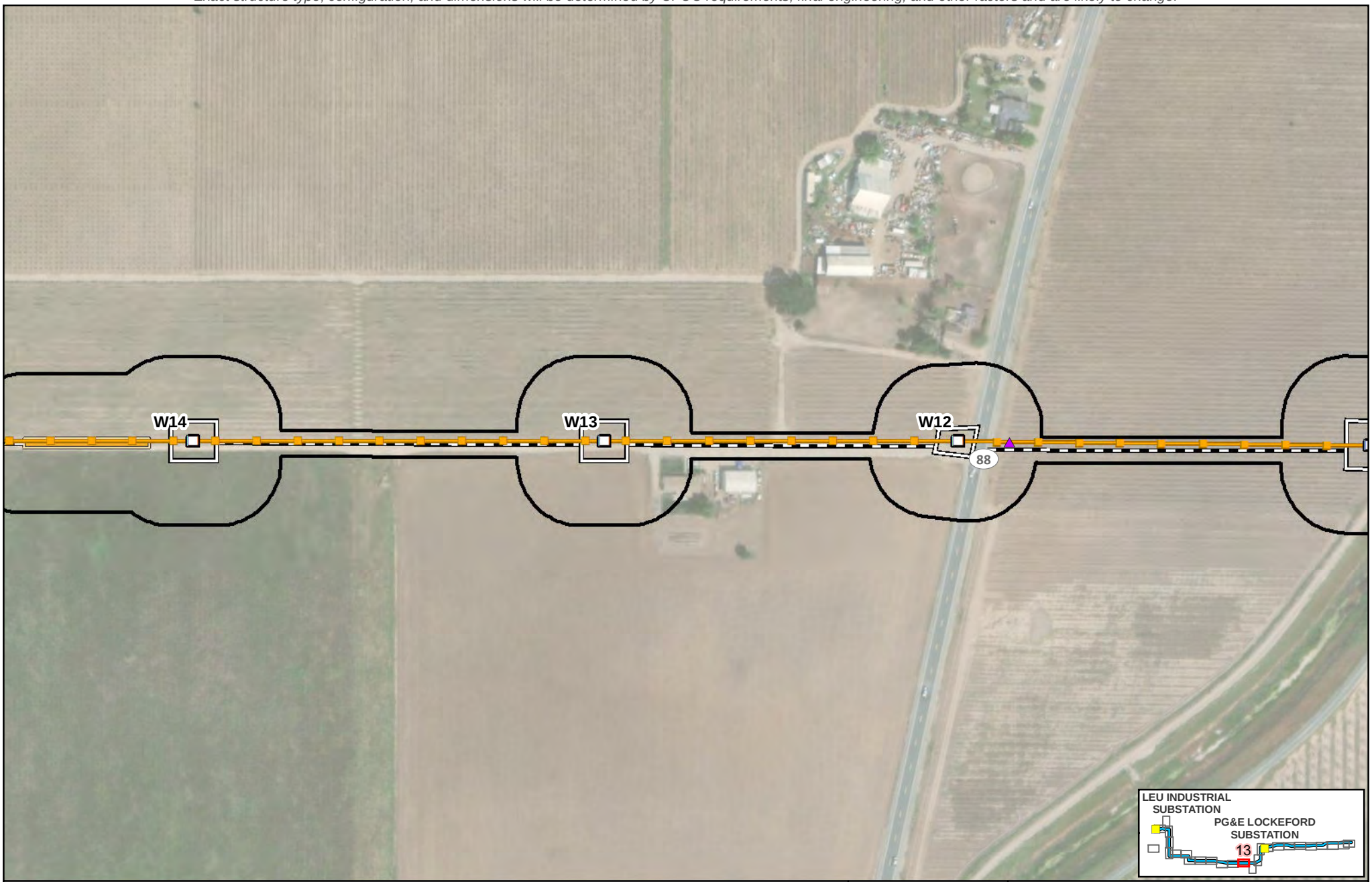
0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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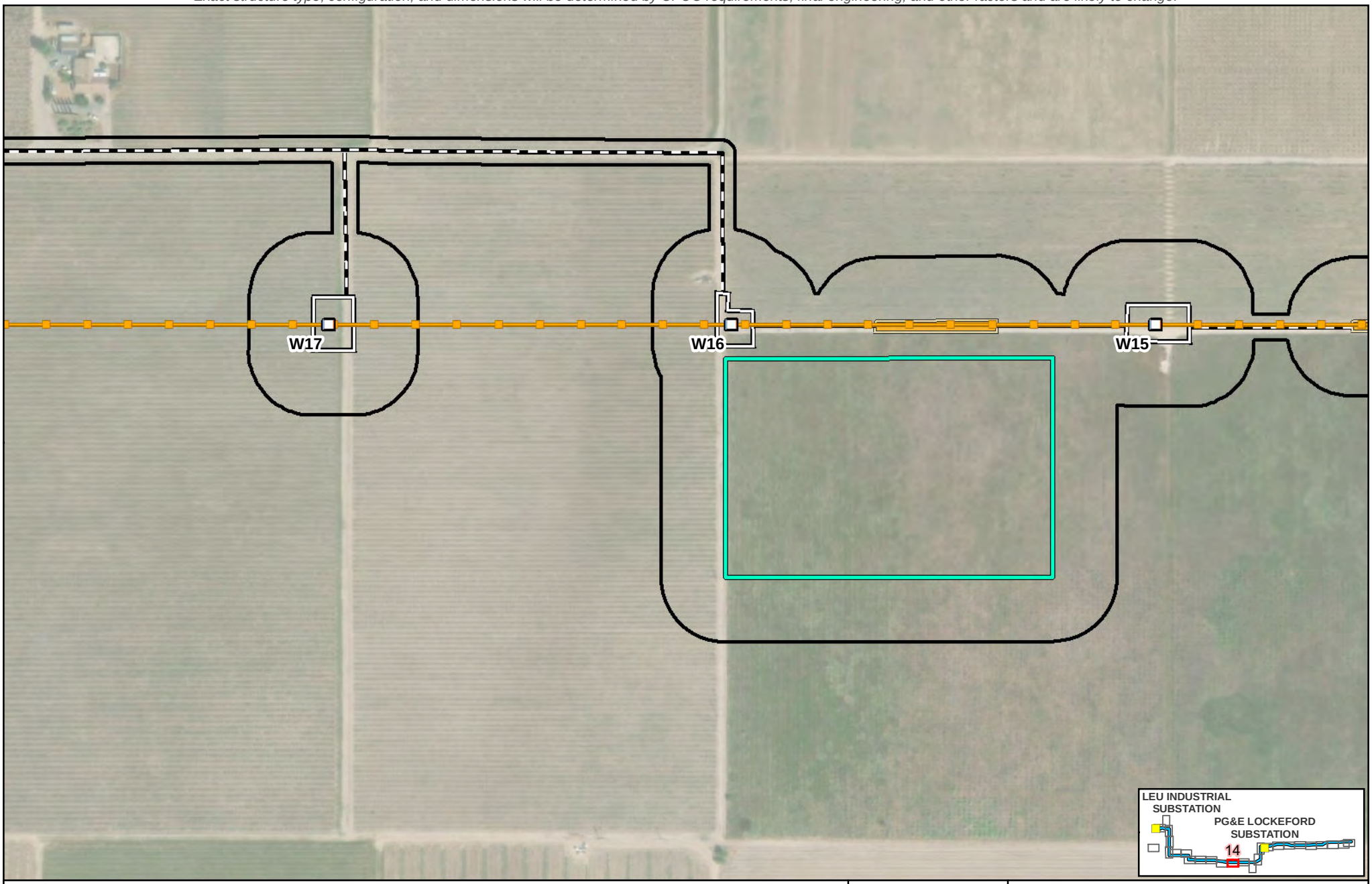

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 14 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
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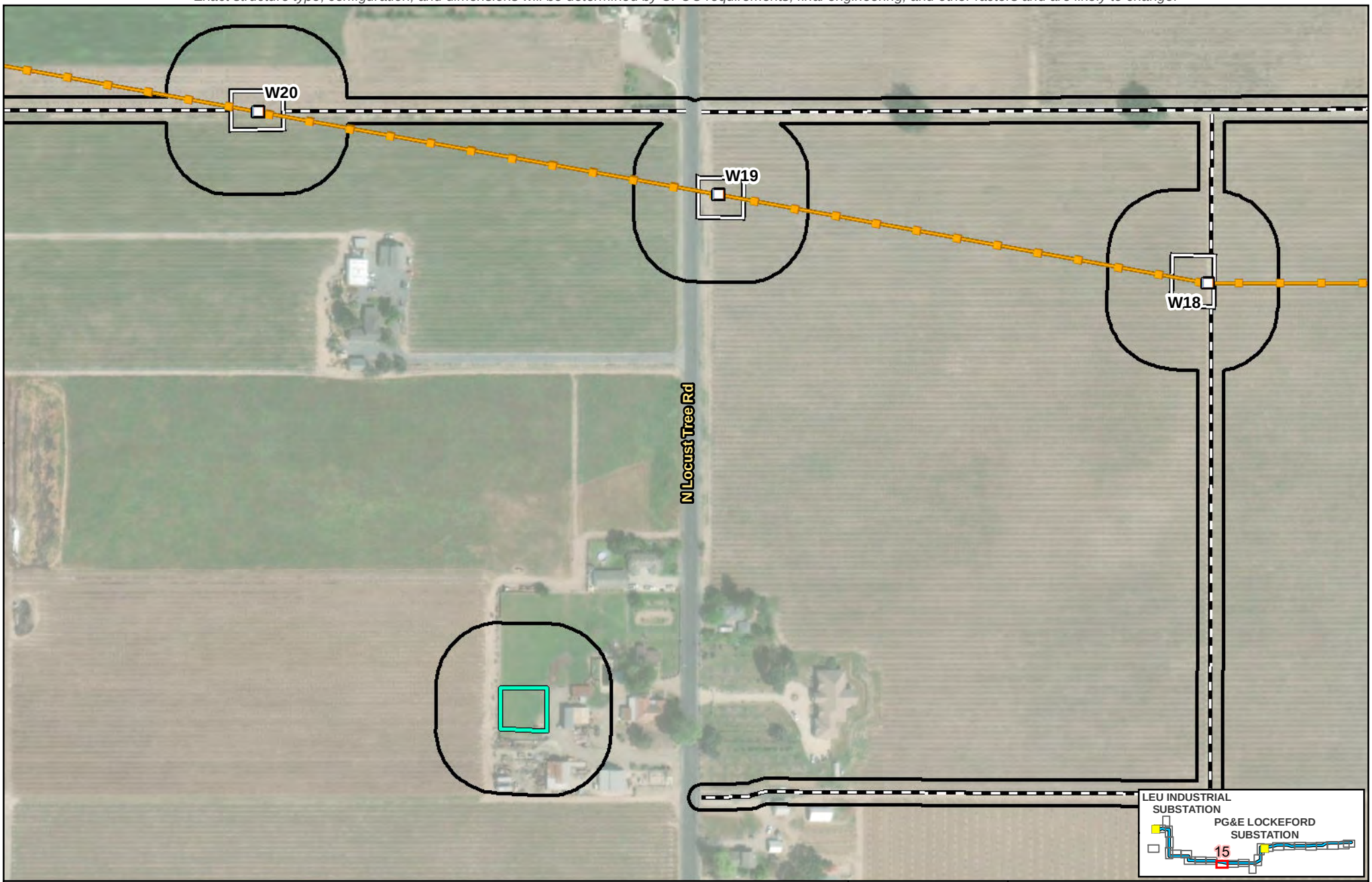


Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

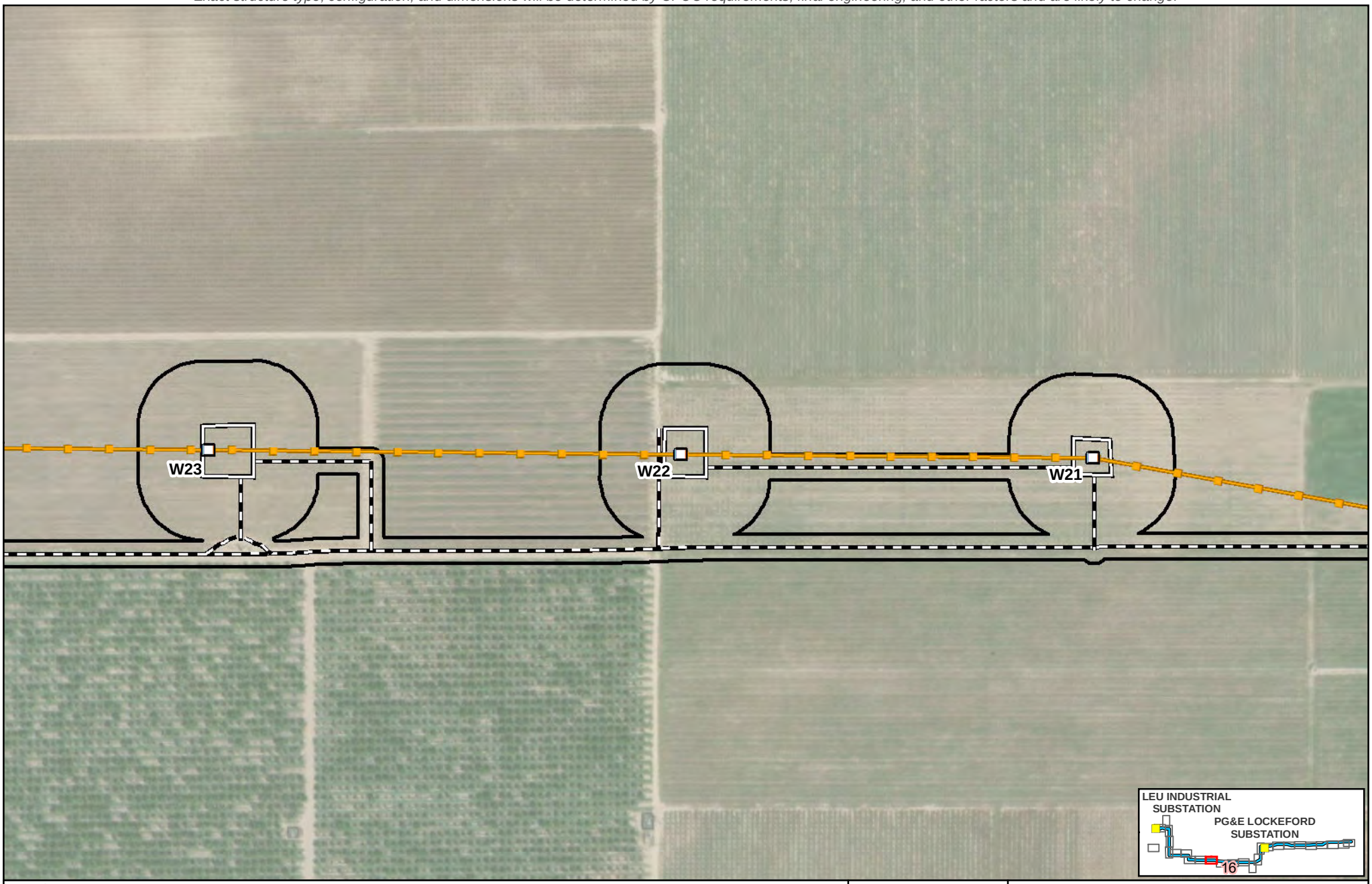
Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 15 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 16 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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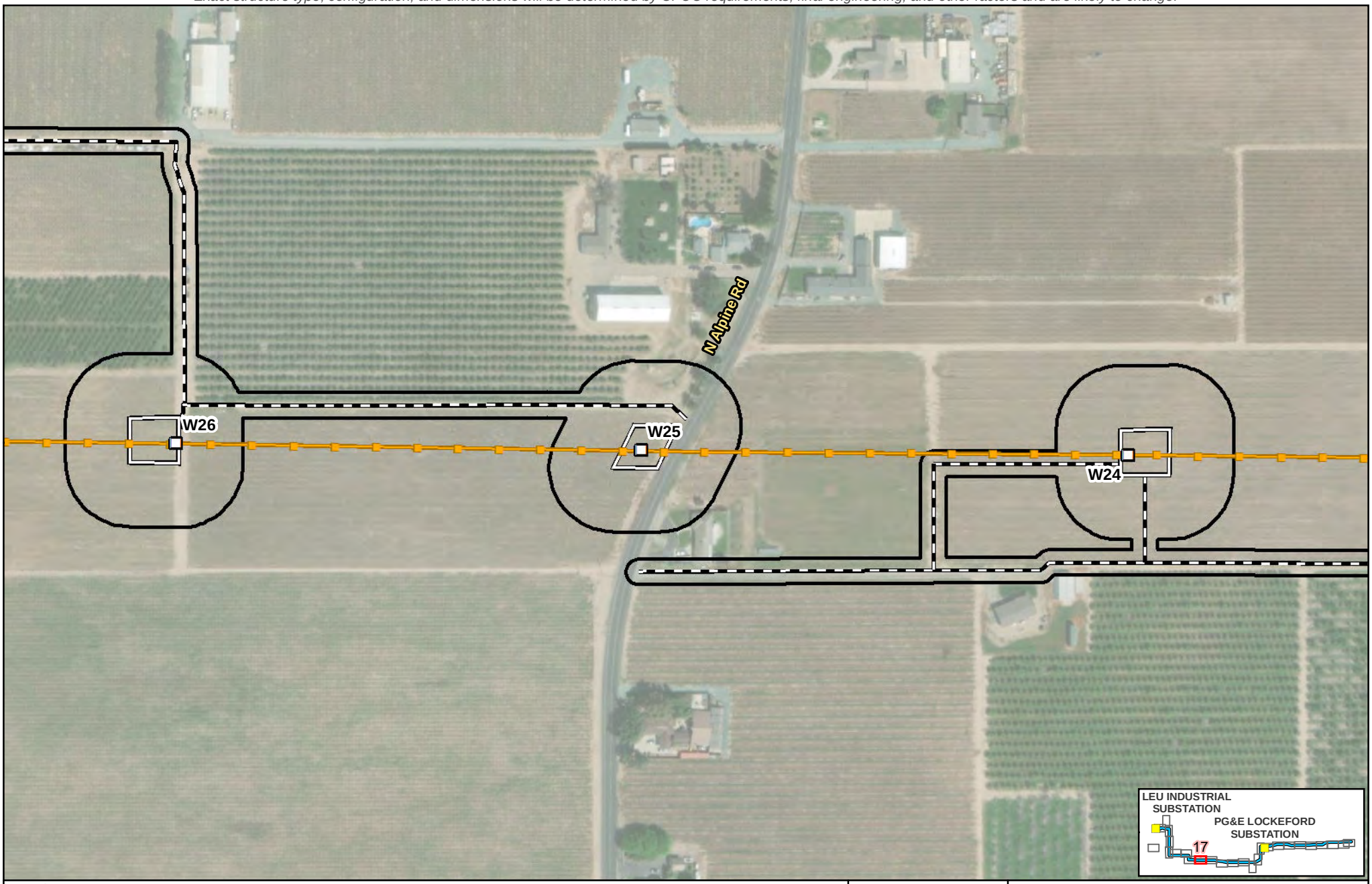

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 17 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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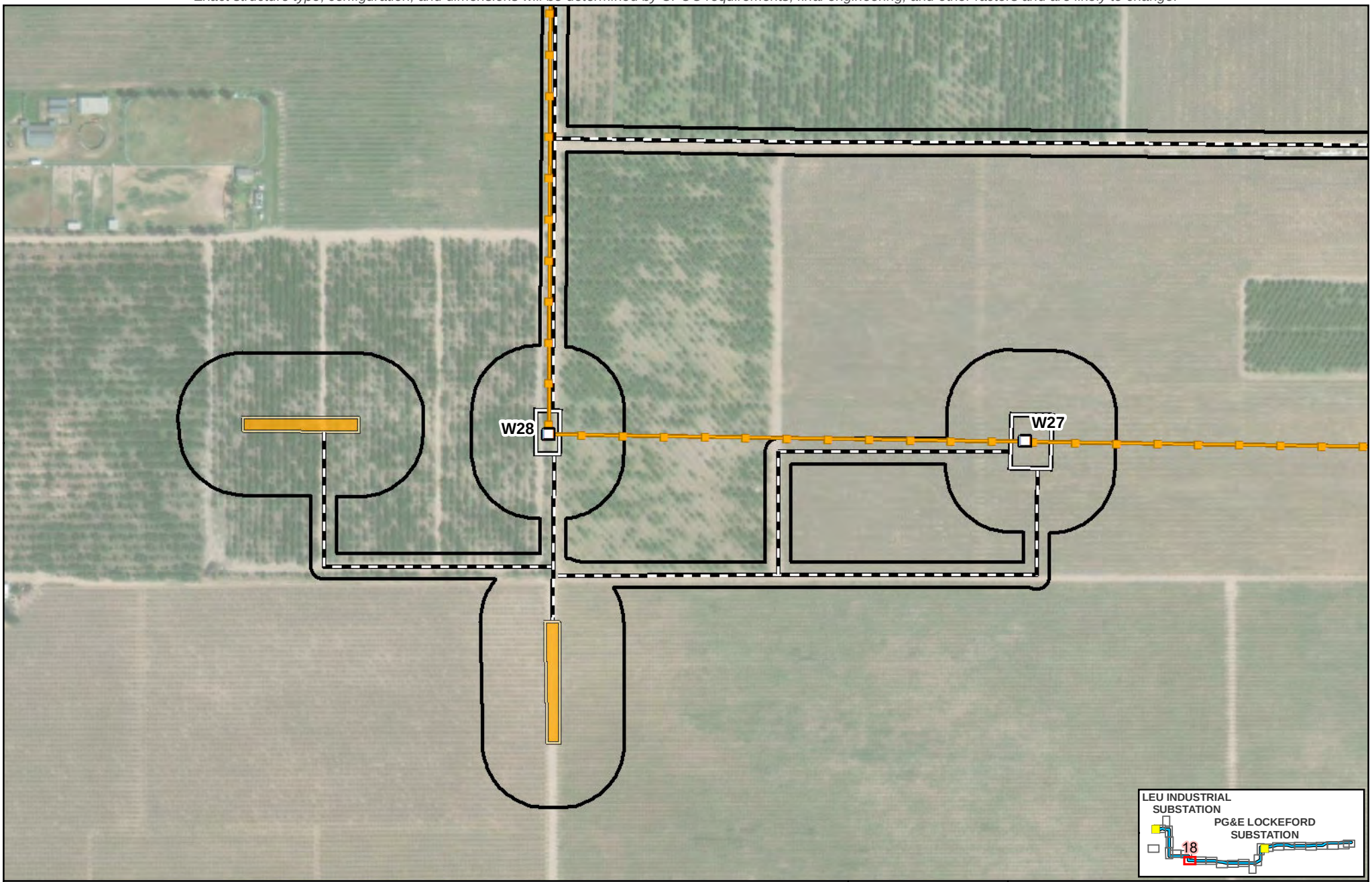

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 18 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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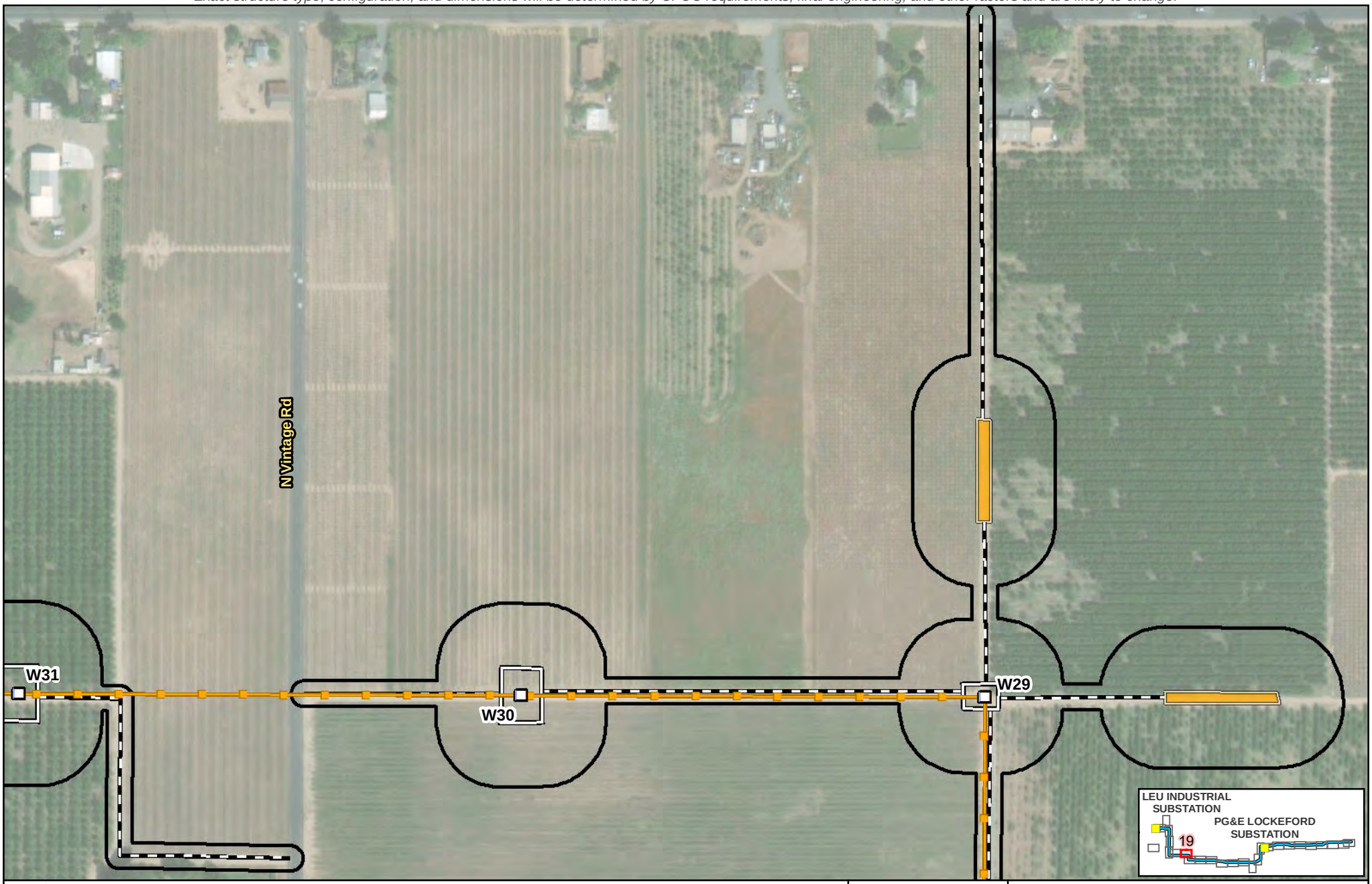

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 19 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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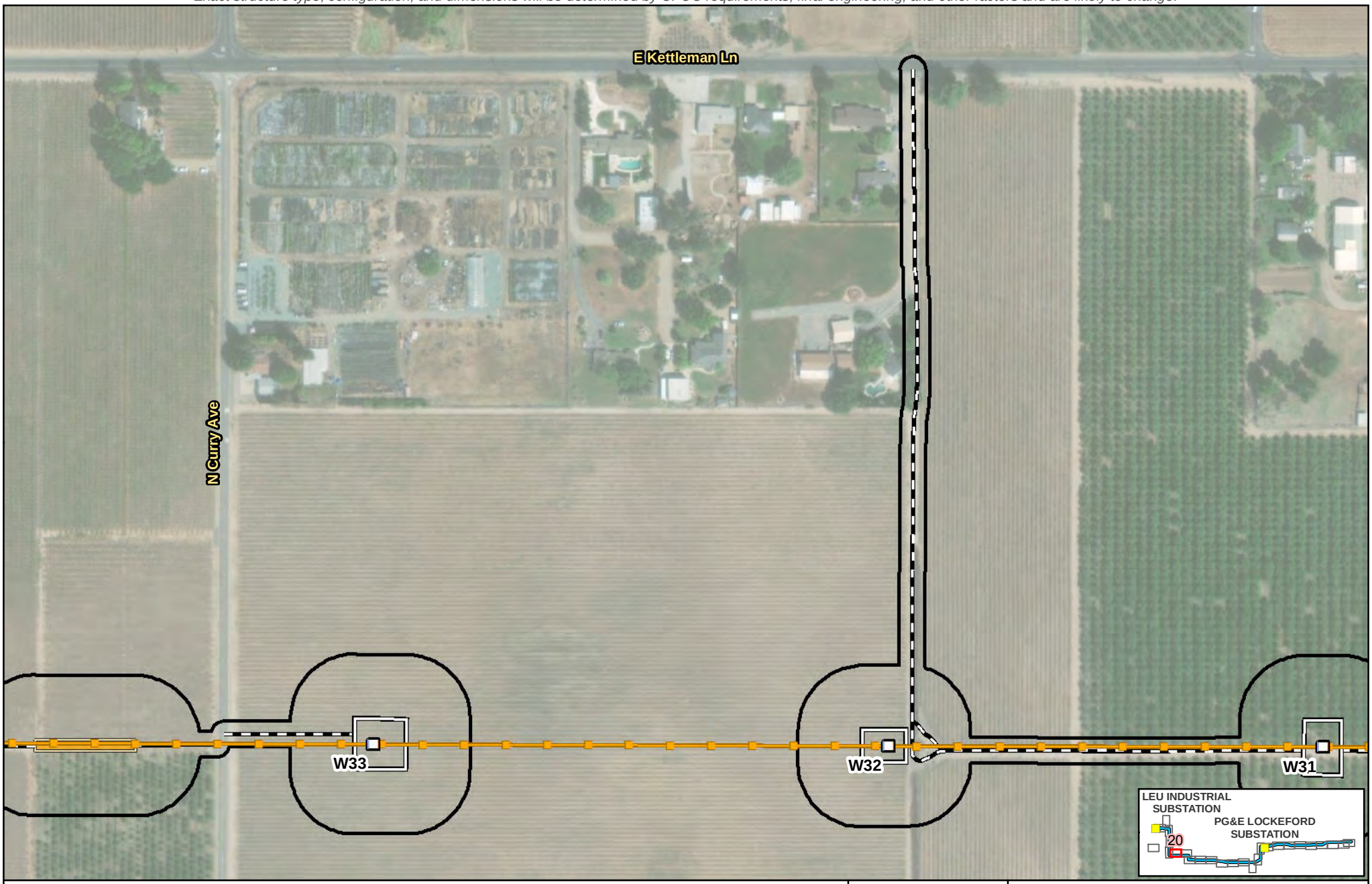

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 20 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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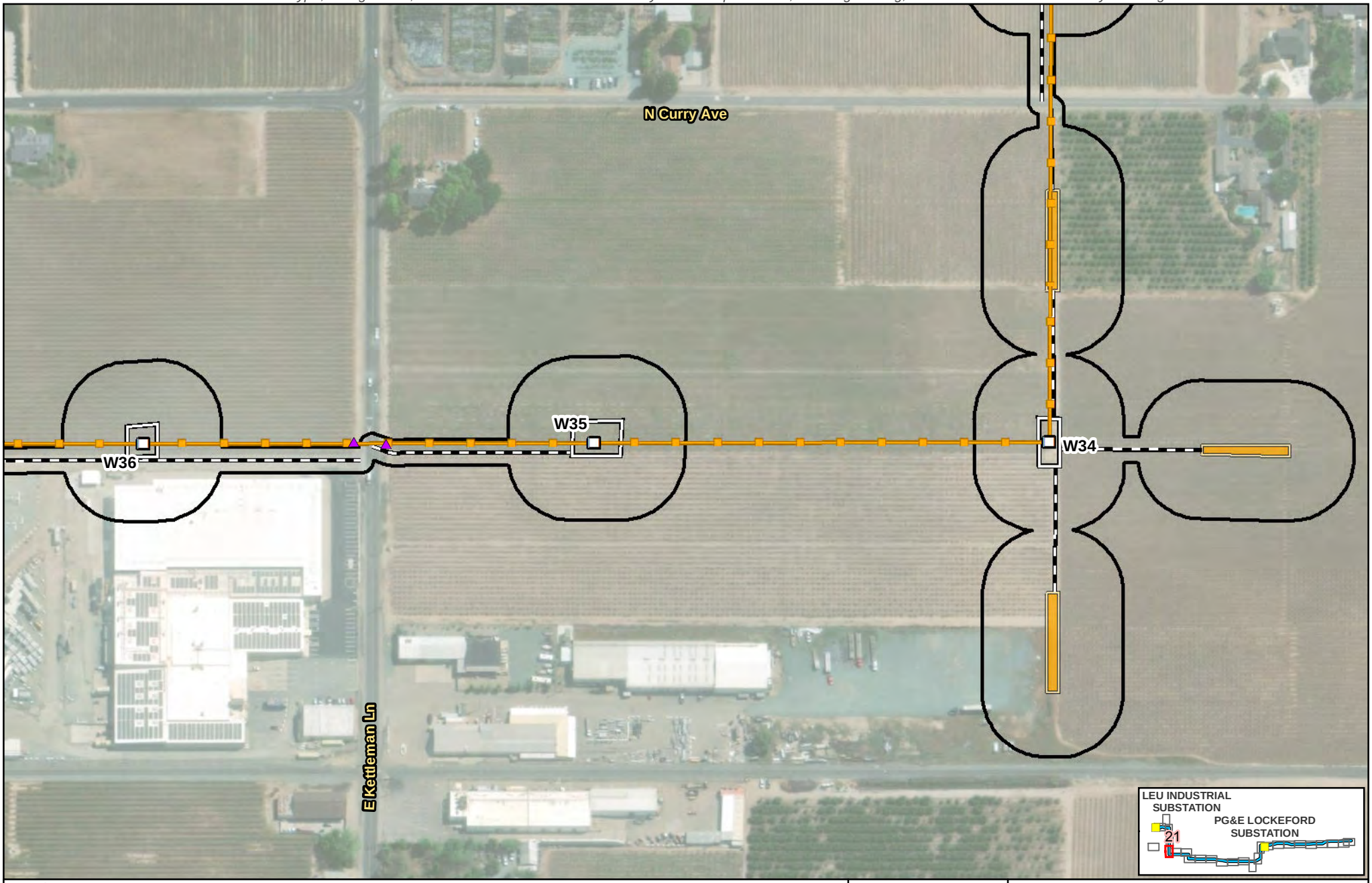

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 21 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
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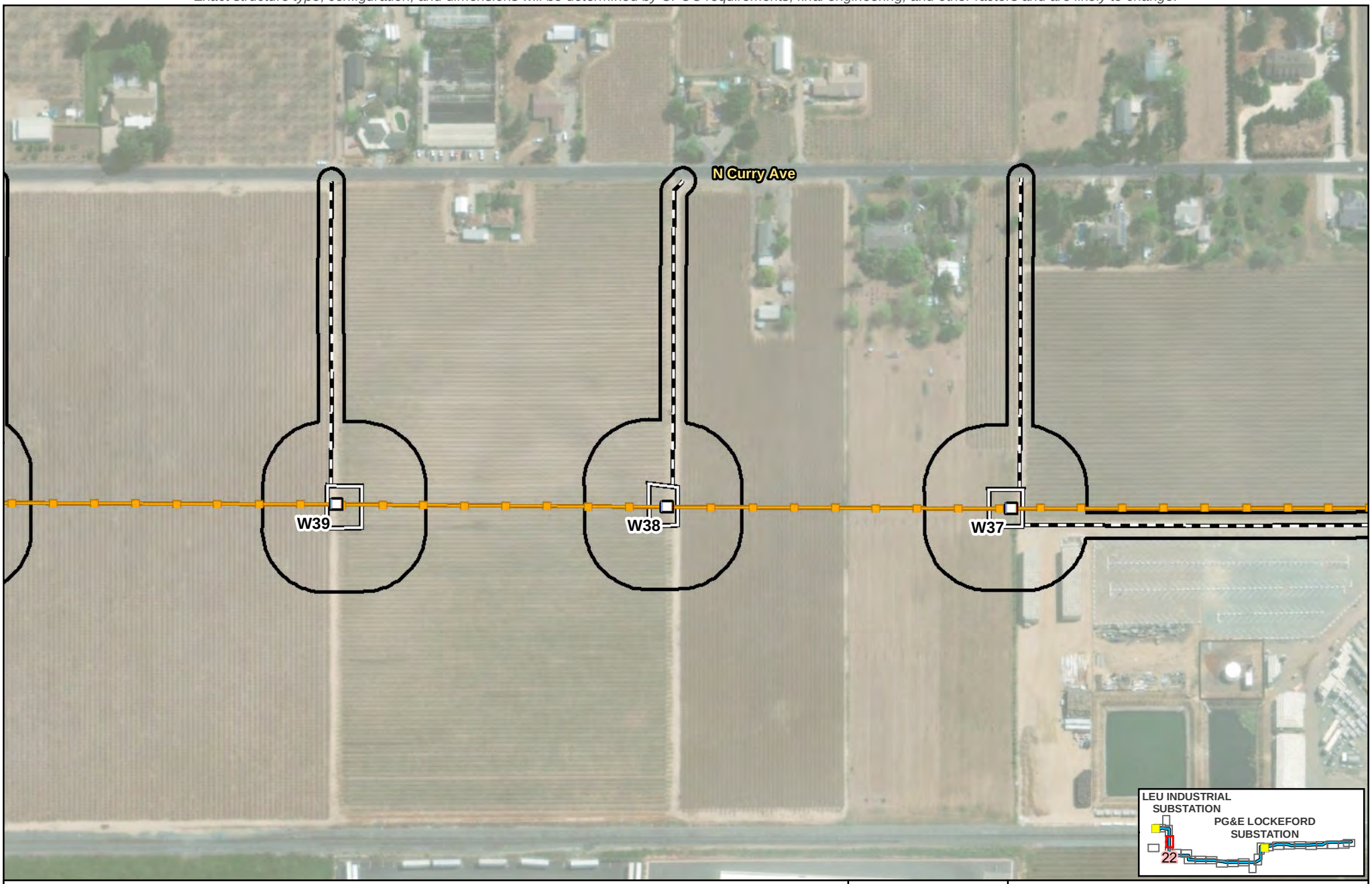

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 22 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Figure_5.4-3_230730.mxd kgrant1 8/1/2023

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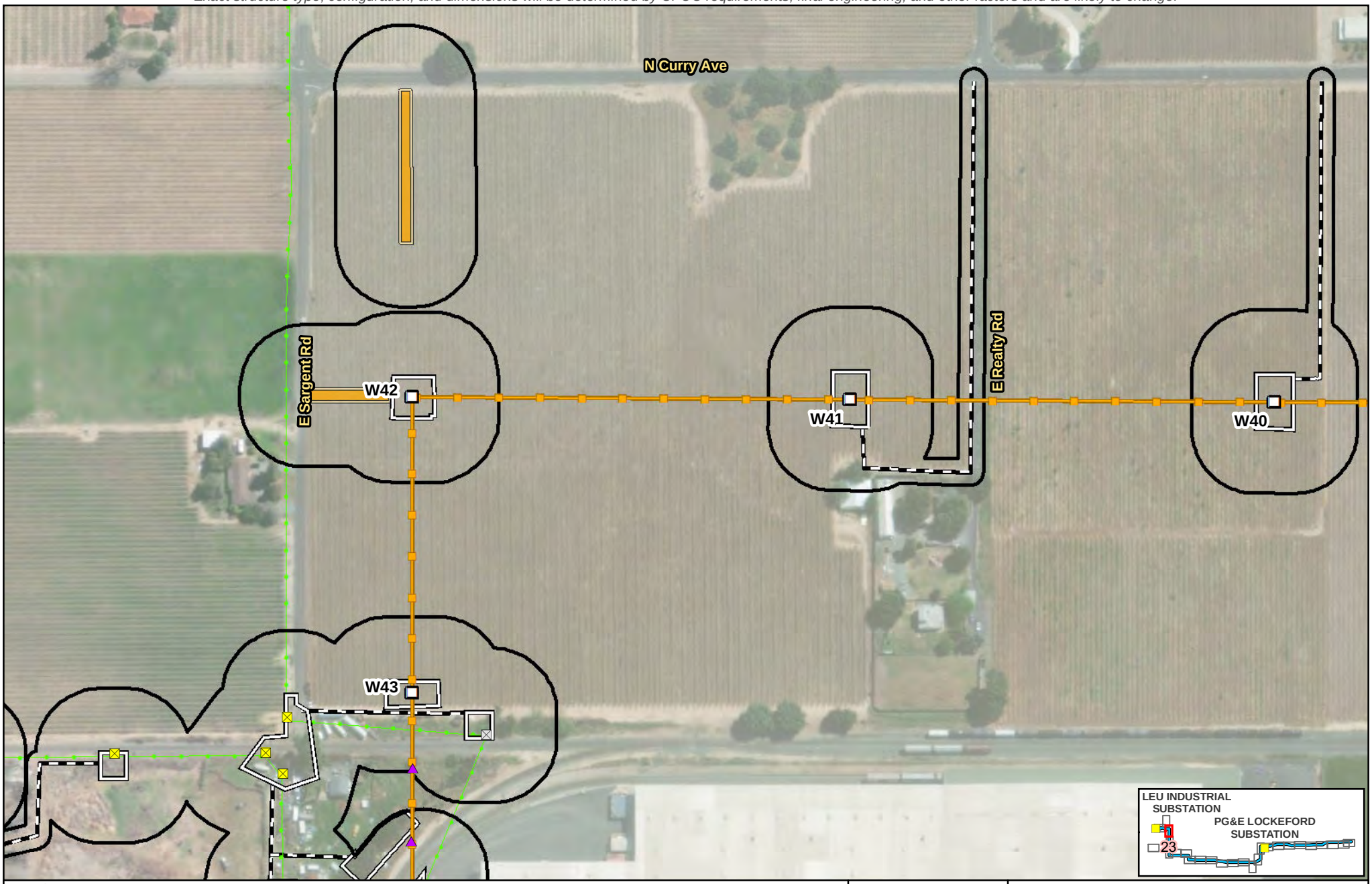

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
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Northern San Joaquin 230 kV Transmission Project

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Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 24 of 26
Northern San Joaquin 230 kV Transmission Project

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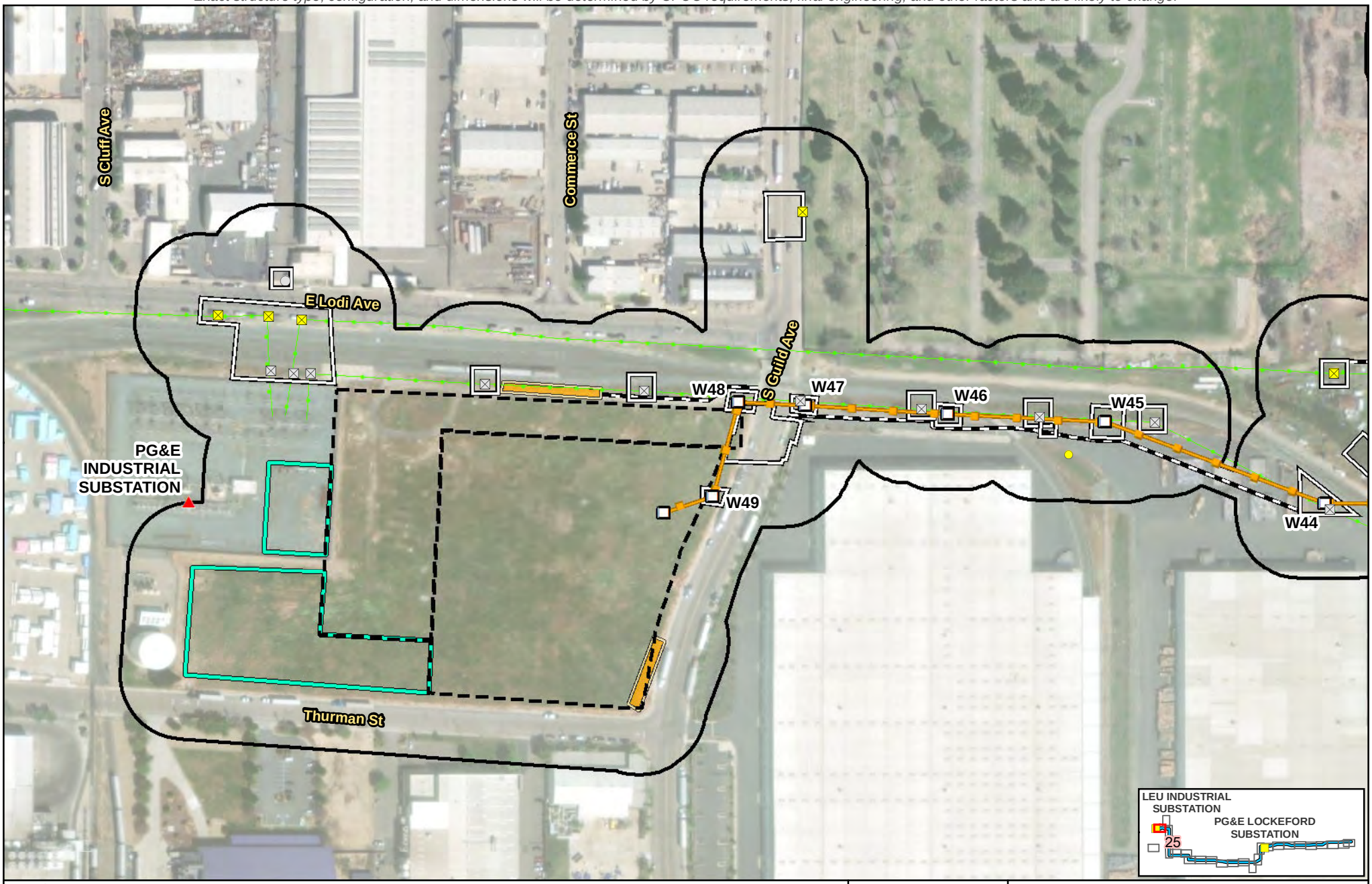

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Culvert

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

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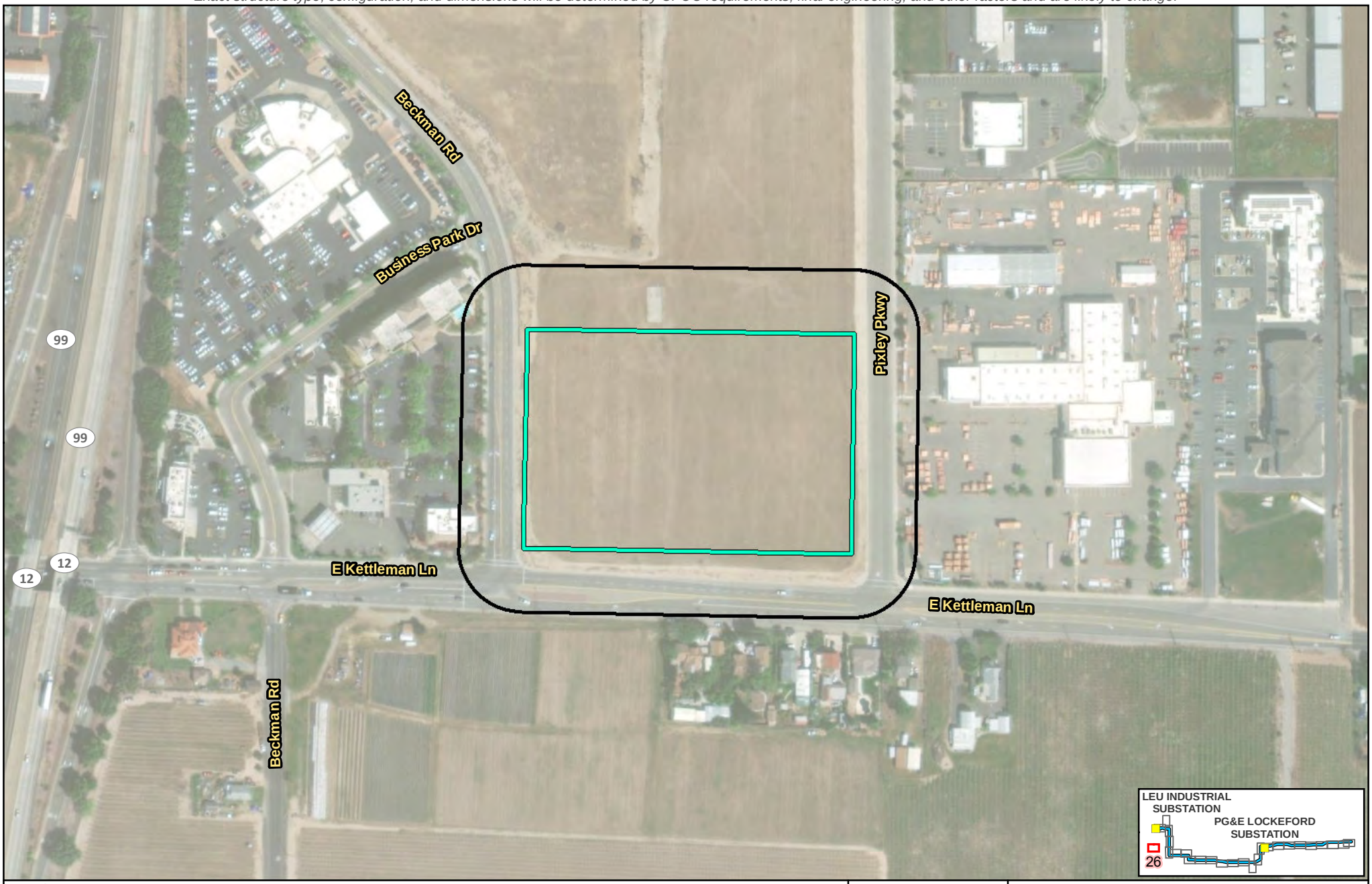

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5.4-3
Aquatic Resources within the Biological Study Area
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

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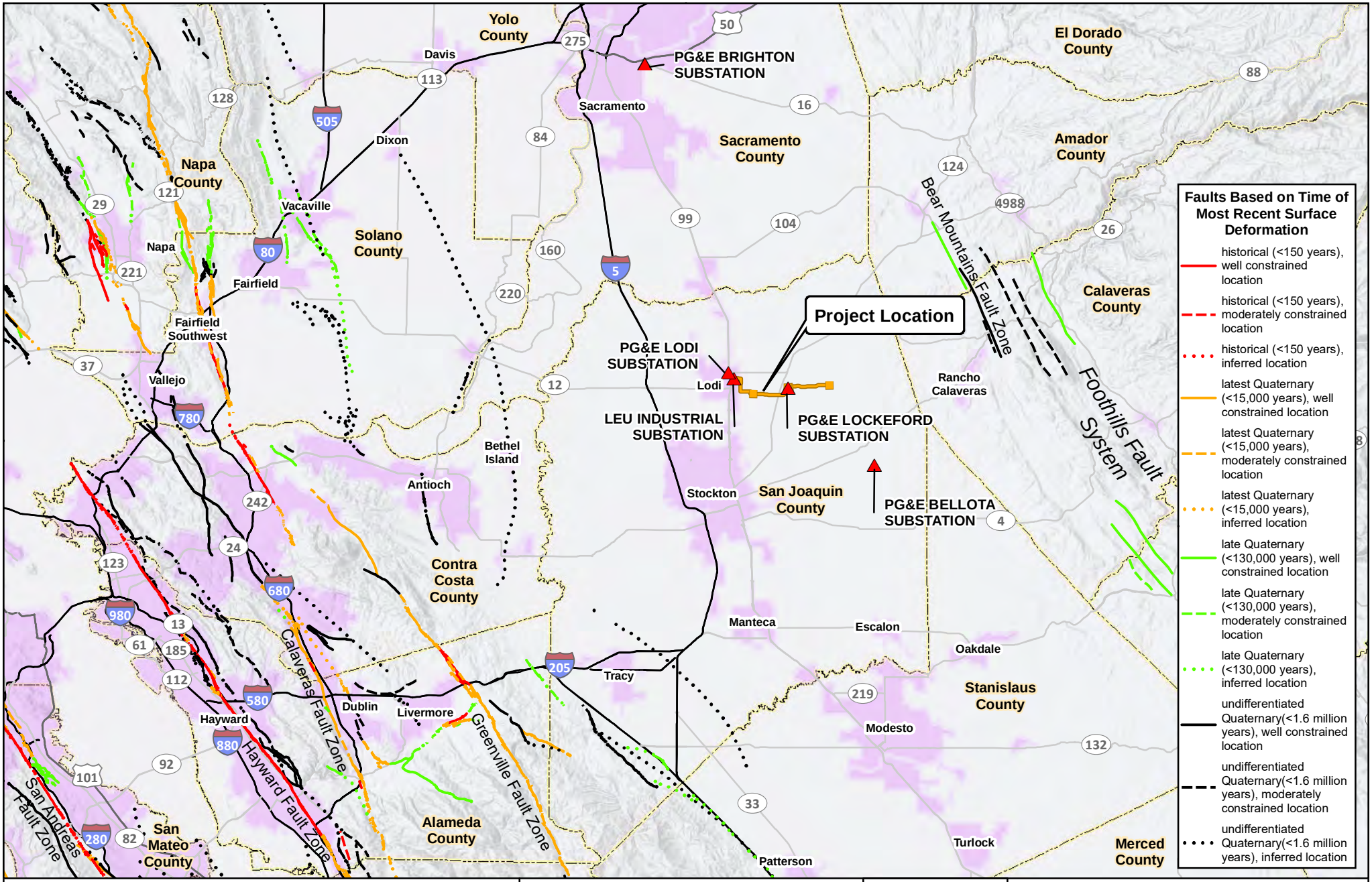
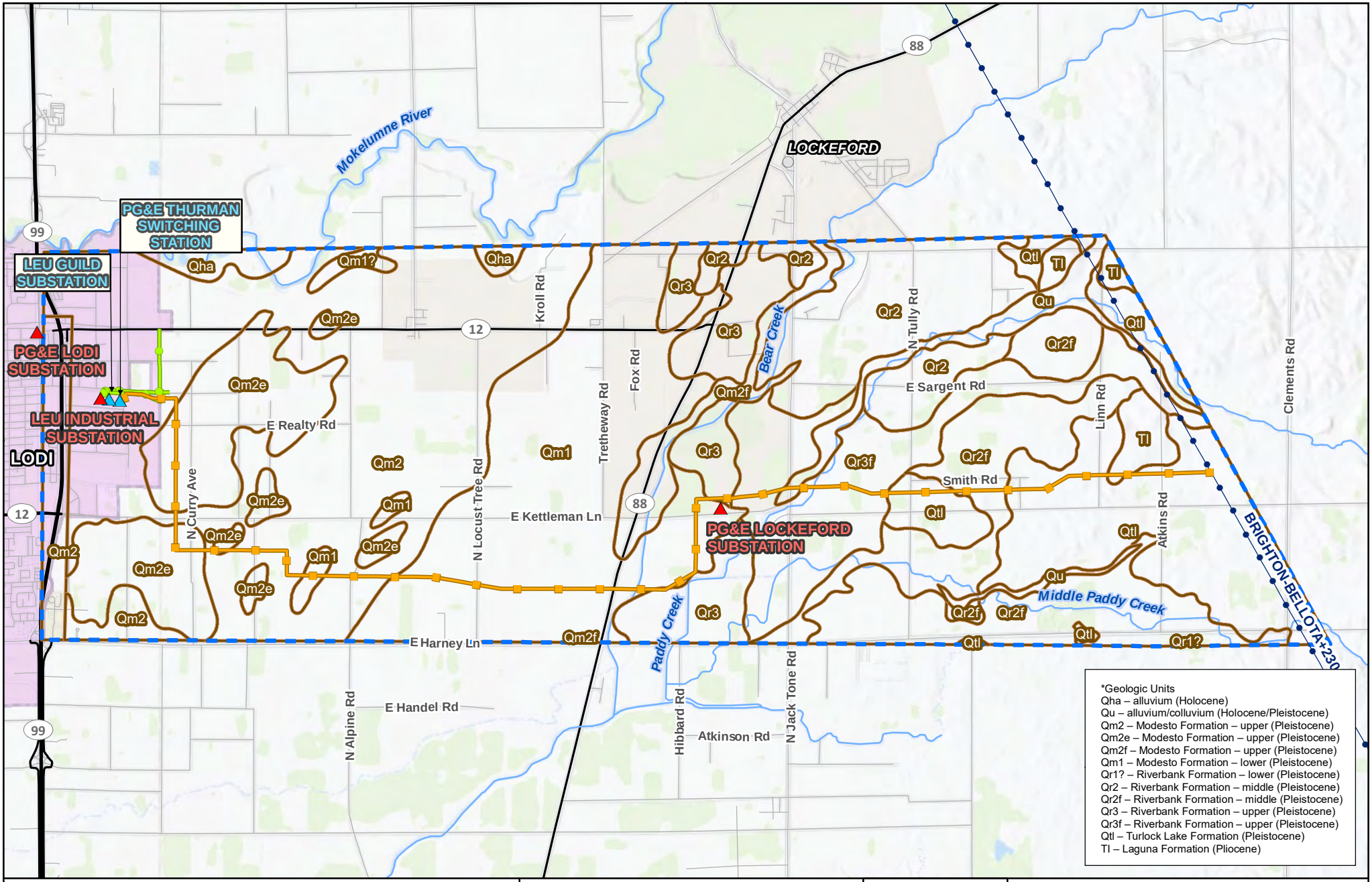


FIGURE 5.7-1
Regional Fault Map
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Geology\Figure5.7-1_Regional_Faultsv02.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switch
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary
- Geologic Study Area
- Geologic Unit*

Sources:
1) ESRI World Topo Base
2) Marchand and Atwater, 1979; Marchand and Bartow, 1979

0 0.5 1 Miles

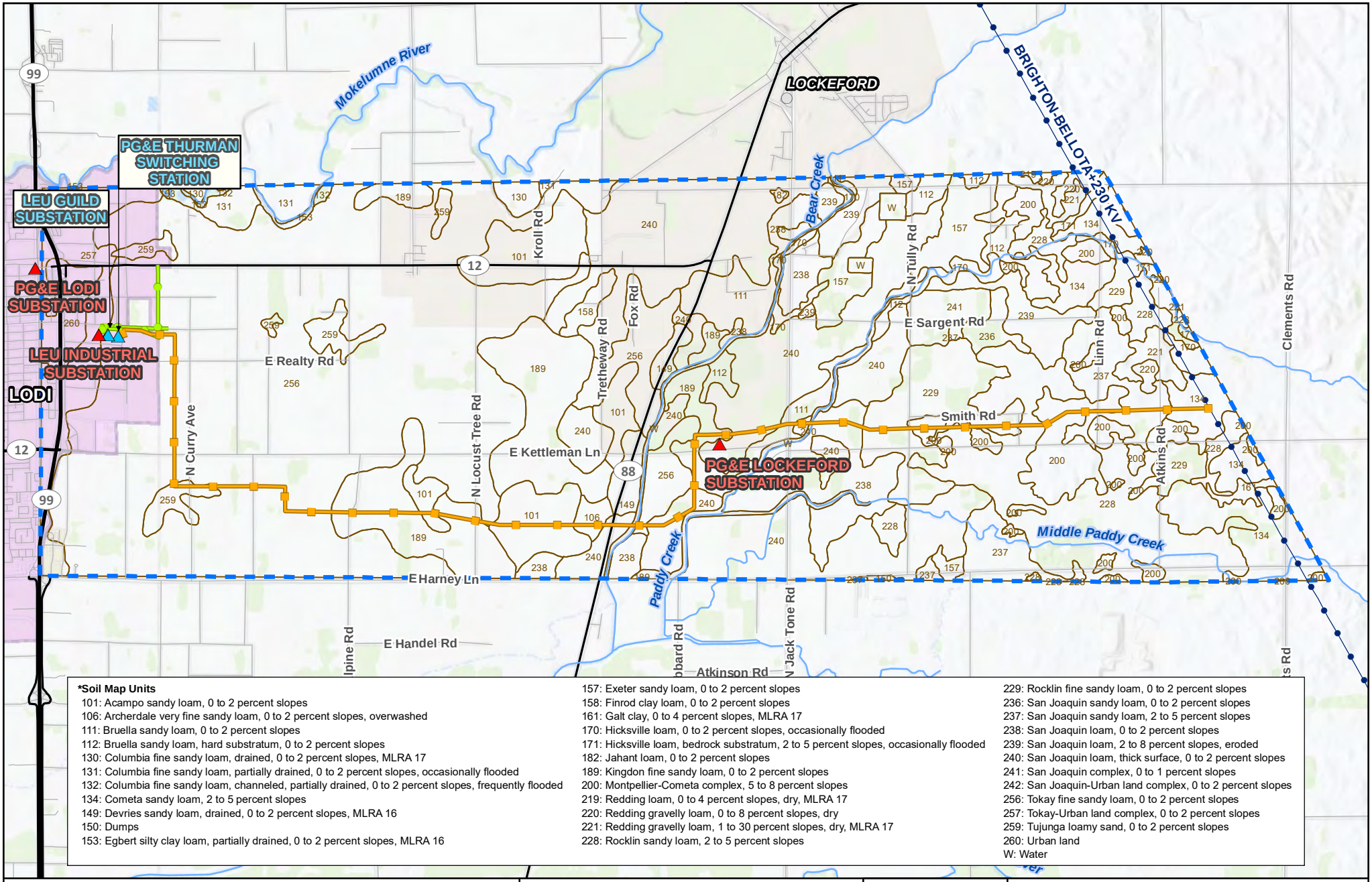
N

Scale: 1:65,000

Project Location

FIGURE 5.7-2
Geologic Units
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Geology\Figure5.7-2_Geologic_units_211210.mxd kgrant1 7/27/2023



***Soil Map Units**

101: Acampo sandy loam, 0 to 2 percent slopes
106: Archerdale very fine sandy loam, 0 to 2 percent slopes, overwashed
111: Bruella sandy loam, 0 to 2 percent slopes
112: Bruella sandy loam, hard substratum, 0 to 2 percent slopes
130: Columbia fine sandy loam, drained, 0 to 2 percent slopes, MLRA 17
131: Columbia fine sandy loam, partially drained, 0 to 2 percent slopes, occasionally flooded
132: Columbia fine sandy loam, channeled, partially drained, 0 to 2 percent slopes, frequently flooded
134: Cometa sandy loam, 2 to 5 percent slopes
149: Devries sandy loam, drained, 0 to 2 percent slopes, MLRA 16
150: Dumps
153: Egbert silty clay loam, partially drained, 0 to 2 percent slopes, MLRA 16
157: Exeter sandy loam, 0 to 2 percent slopes
158: Finrod clay loam, 0 to 2 percent slopes
161: Galt clay, 0 to 4 percent slopes, MLRA 17
170: Hicksville loam, 0 to 2 percent slopes, occasionally flooded
171: Hicksville loam, bedrock substratum, 2 to 5 percent slopes, occasionally flooded
182: Jahant loam, 0 to 2 percent slopes
189: Kingdon fine sandy loam, 0 to 2 percent slopes
200: Montpellier-Cometa complex, 5 to 8 percent slopes
219: Redding loam, 0 to 4 percent slopes, dry, MLRA 17
220: Redding gravelly loam, 0 to 8 percent slopes, dry
221: Redding gravelly loam, 1 to 30 percent slopes, dry, MLRA 17
228: Rocklin sandy loam, 2 to 5 percent slopes
229: Rocklin fine sandy loam, 0 to 2 percent slopes
236: San Joaquin sandy loam, 0 to 2 percent slopes
237: San Joaquin sandy loam, 2 to 5 percent slopes
238: San Joaquin loam, 0 to 2 percent slopes
239: San Joaquin loam, 2 to 8 percent slopes, eroded
240: San Joaquin loam, thick surface, 0 to 2 percent slopes
241: San Joaquin complex, 0 to 1 percent slopes
242: San Joaquin-Urban land complex, 0 to 2 percent slopes
256: Tokay fine sandy loam, 0 to 2 percent slopes
257: Tokay-Urban land complex, 0 to 2 percent slopes
259: Tujunga loamy sand, 0 to 2 percent slopes
260: Urban land
W: Water

Legend

- Exsting Substation
- New Substation/ Switch
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary
- Soils Study Area
- Soil Map Unit*

Sources:
1) ESRI World Topo Base
2) U.S. Department of Agriculture, Natural Resources Conservation Service, 2022

0 0.5 1 Miles

N

Scale: 1:65,000



FIGURE 5.7-3
NRCS Soils Map
Northern San Joaquin 230 kV Transmission Project

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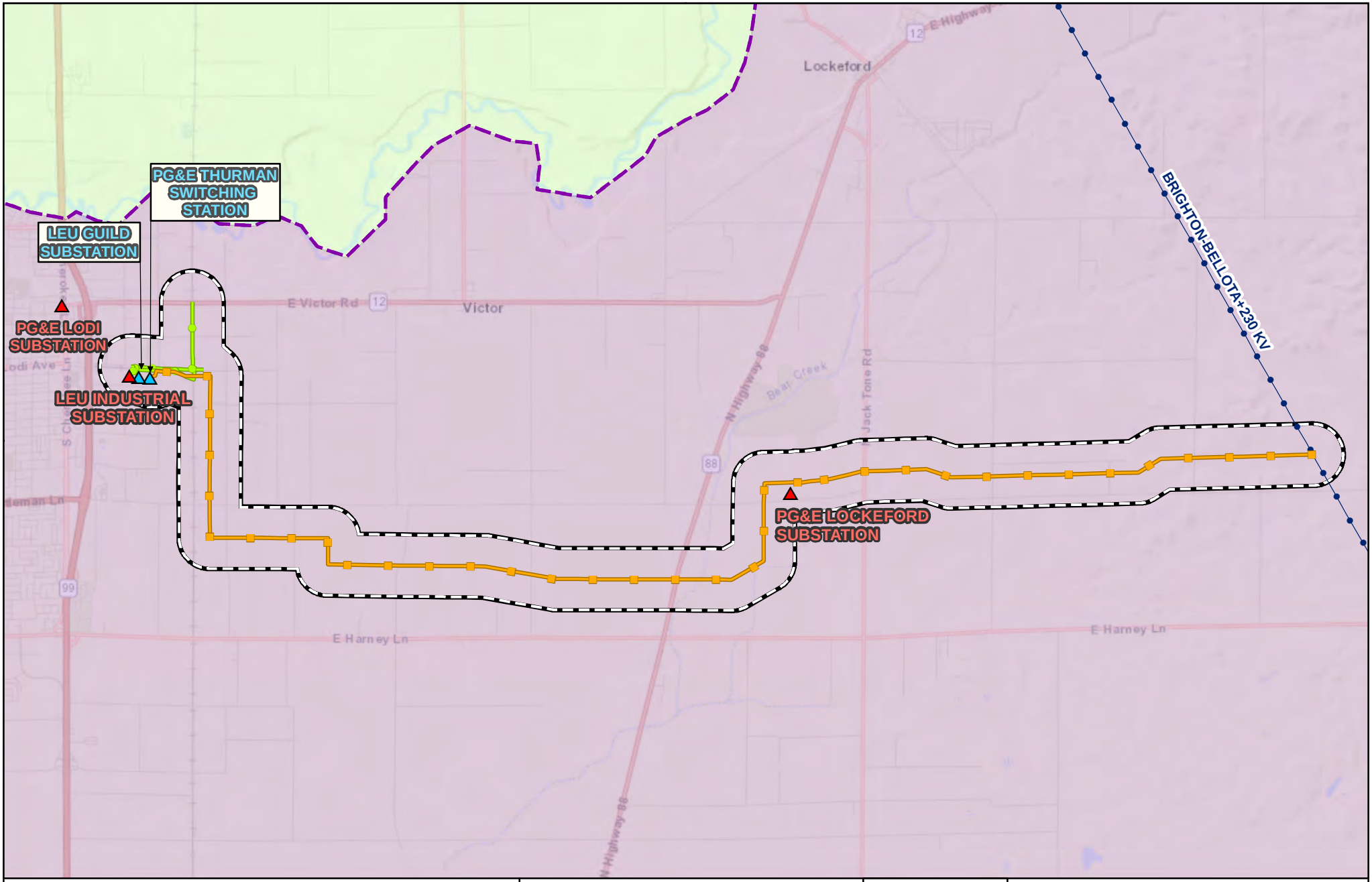


Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Quarter-mile Radius Around Project Components

Groundwater Basin Boundary

- San Joaquin Valley

Basin: Sub-basin

- Cosumnes
- Eastern San Joaquin

Source:
1) ESRI World Street Map
2) California Open data - California Department of Water Resources

0 4,100 8,200 Feet

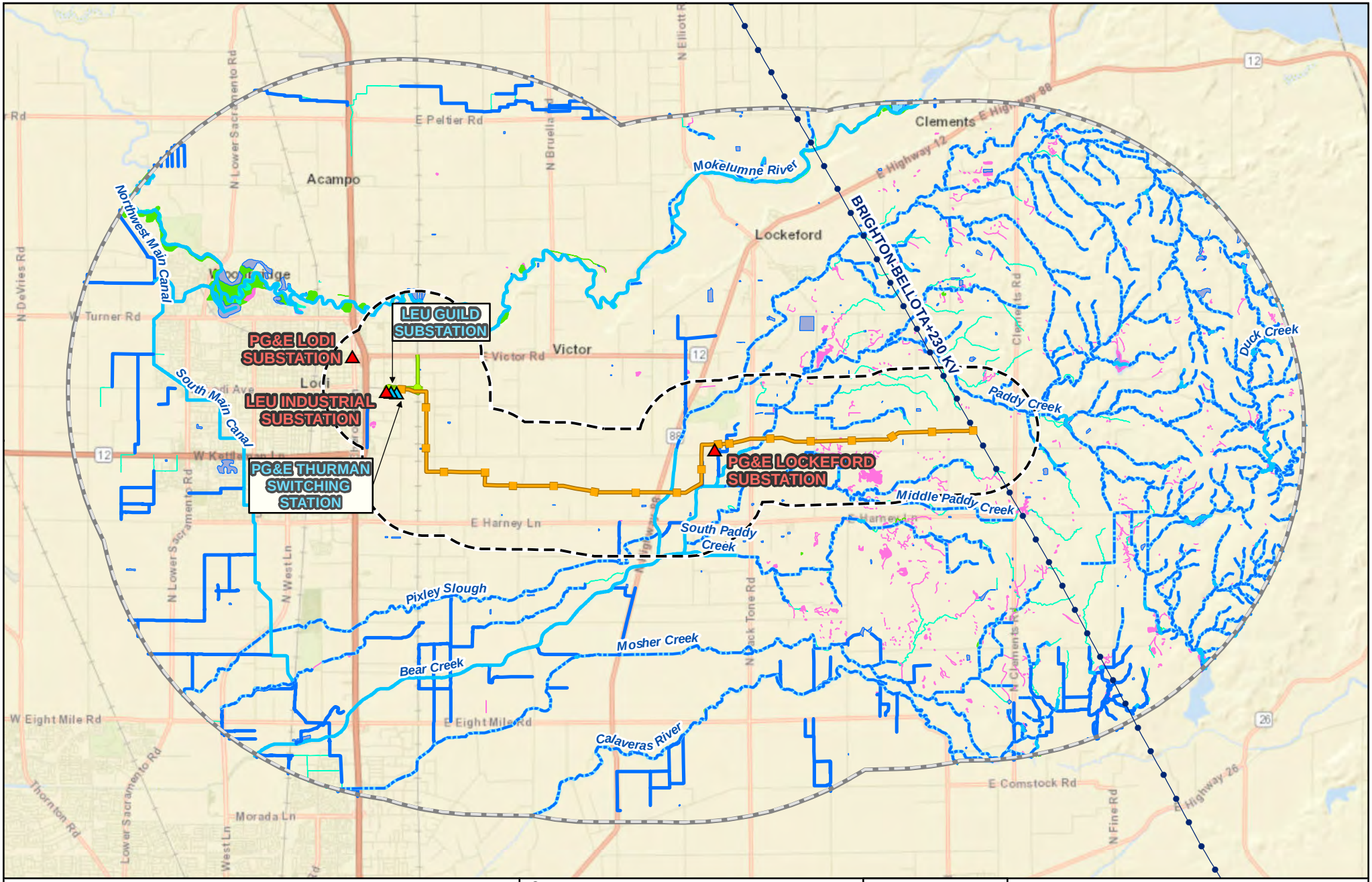
N

Scale: 1:61,000

Project Location

FIGURE 5.10-1
Groundwater Basins
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-1_Groundwater_Basins_In_Project_Area.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- 1-mile Radius Around Project Components
- 5-mile Radius Around Project Components
- Artificial Path
- Canal/Ditch
- Stream/River

National Wetlands Inventory

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

Source:
1) ESRI World Street Map
2) USGS National Hydrography Dataset (NHD), Published 6/19/2020.
3) USFWS, National Wetlands Inventory, Accessed January 2021.

0 8,200 16,400 Feet

N

Scale: 1:122,769

Project Location

FIGURE 5.10-2
Waterbodies in Project Area
Northern San Joaquin 230 kV Transmission Project

PG&E

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-2_Waterbodies_In_Project_Area.mxd kgrant1 7/27/2023

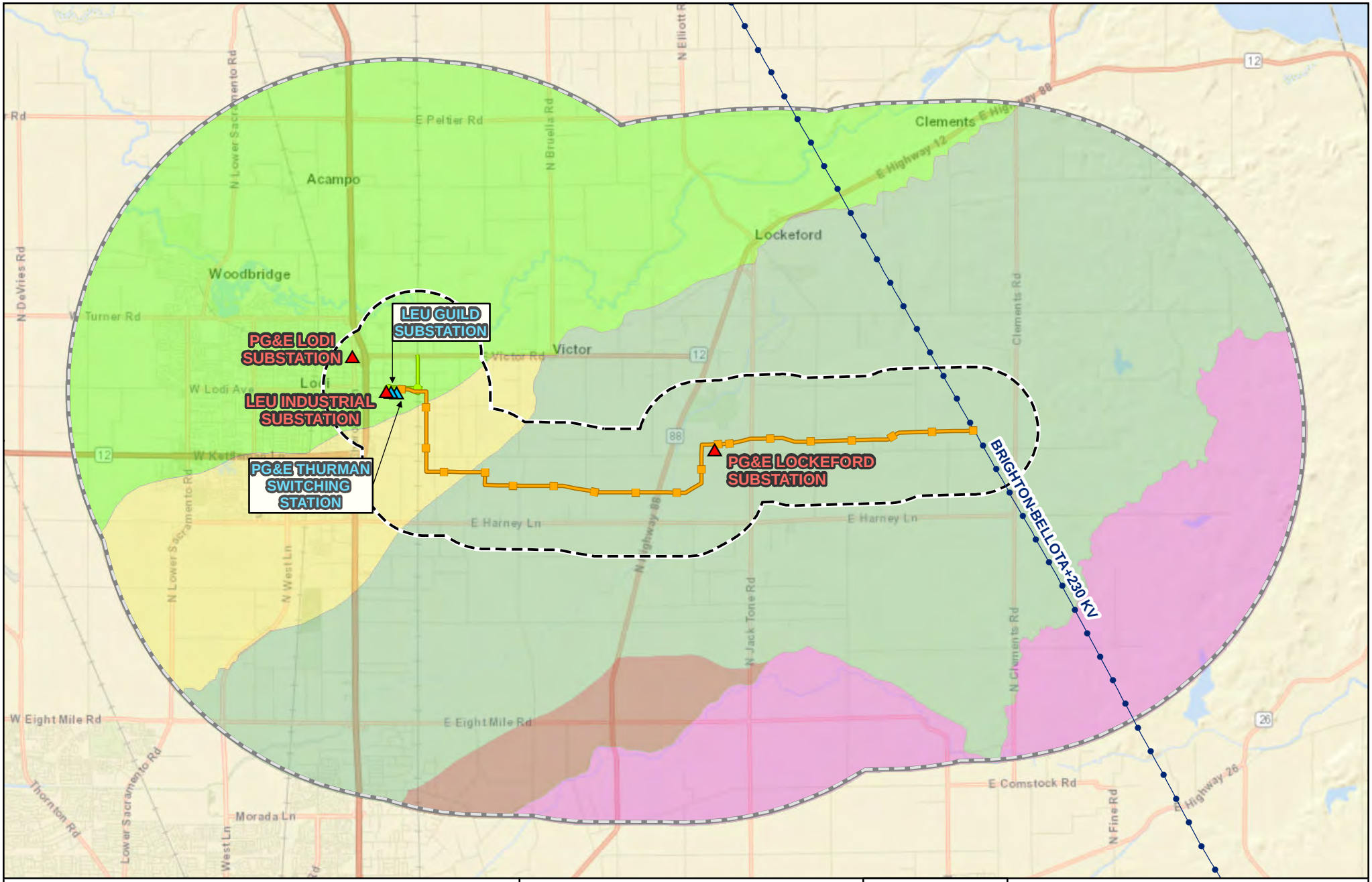


FIGURE 5.10-3
Watersheds in Project Area
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-3_Watersheds_In_Project_Area.mxd kgrant1 7/27/2023

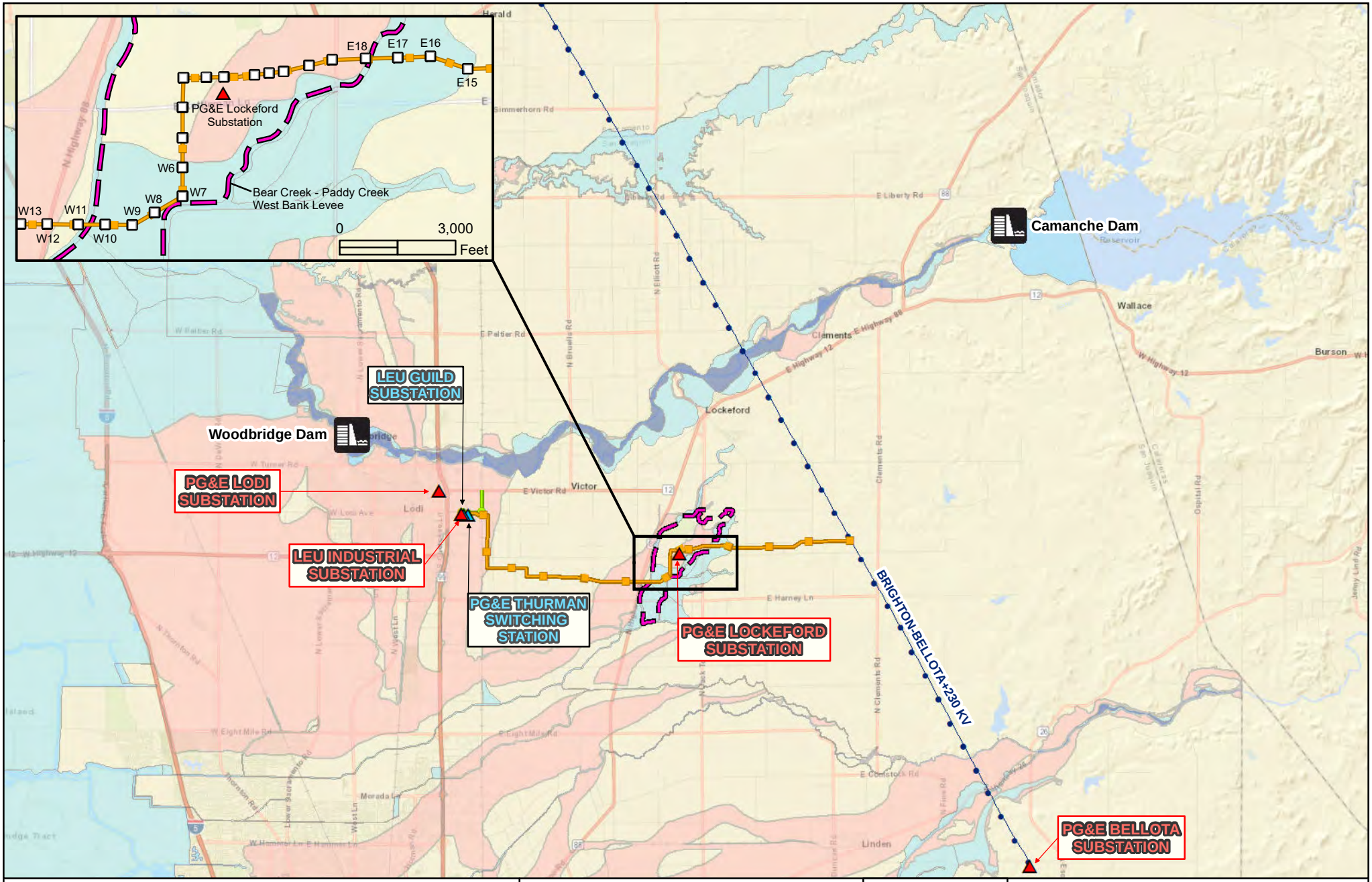
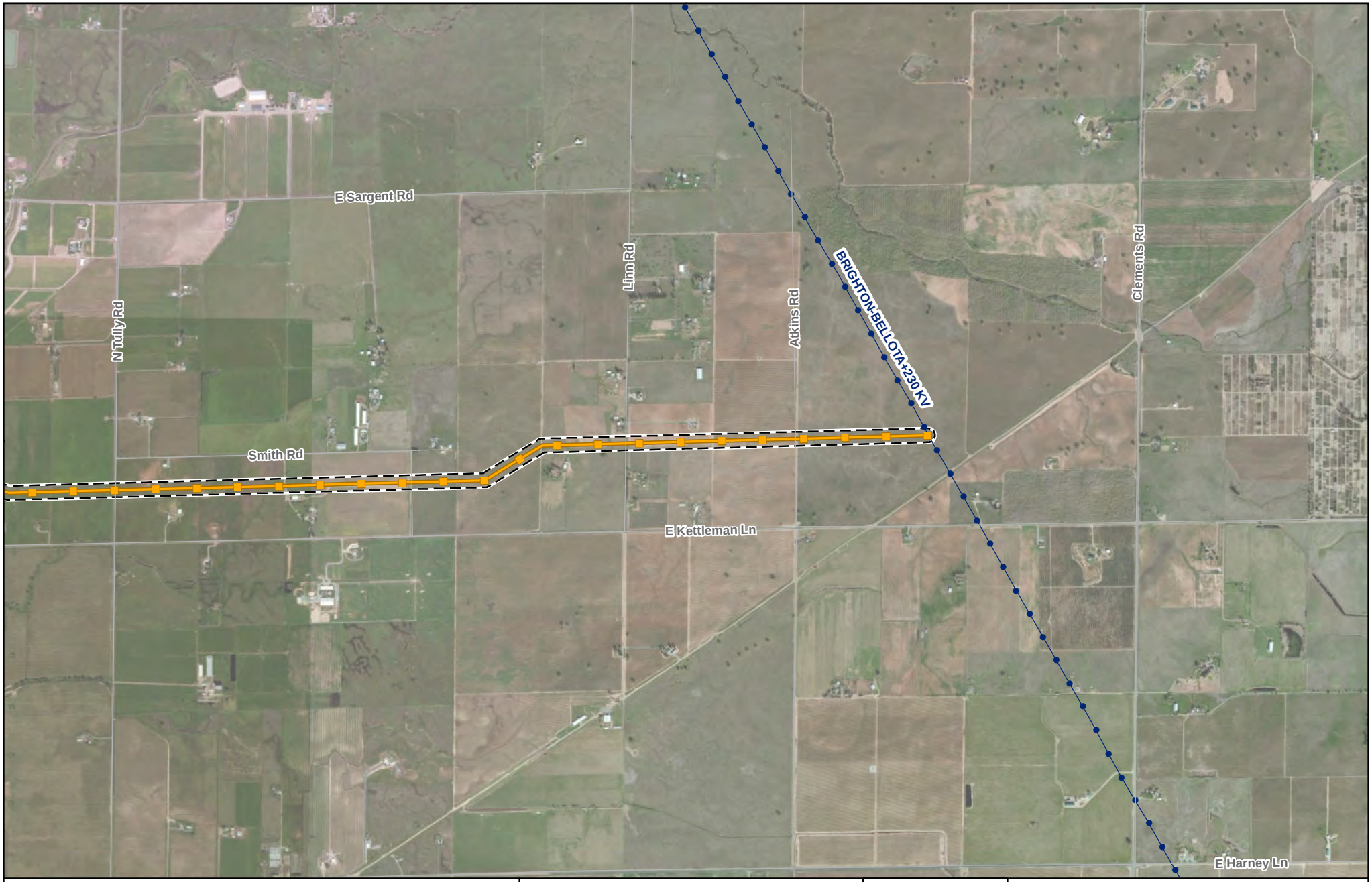


FIGURE 5.10-4
Potential Flood Zones (FEMA Flood Zones)
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-4_Potential_Flood_Zones_FEMA.mxd kgrant1 8/17/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Groundwater Well
- Major_Roads
- Local Road
- 150-foot Radius Around Project Components

Source:
1) ESRI World Imagery
2) GAMA Ground Water Information System, Accessed April 2021.

0 1,600 3,200 Feet

N

Scale: 1:24,000

Project Location

FIGURE 5.10-5
Groundwater Wells and Springs within 150 feet of the Project Area
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-5_Groundwater_Wells_and_Springs_within_150_feet_of_the_Project_Area_v02.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Groundwater Well
- Major_Roads
- Local Road
- 150-foot Radius Around Project Components

Source:
1) ESRI World Imagery
2) GAMA Ground Water Information System, Accessed April 2021.

0 1,600 3,200 Feet

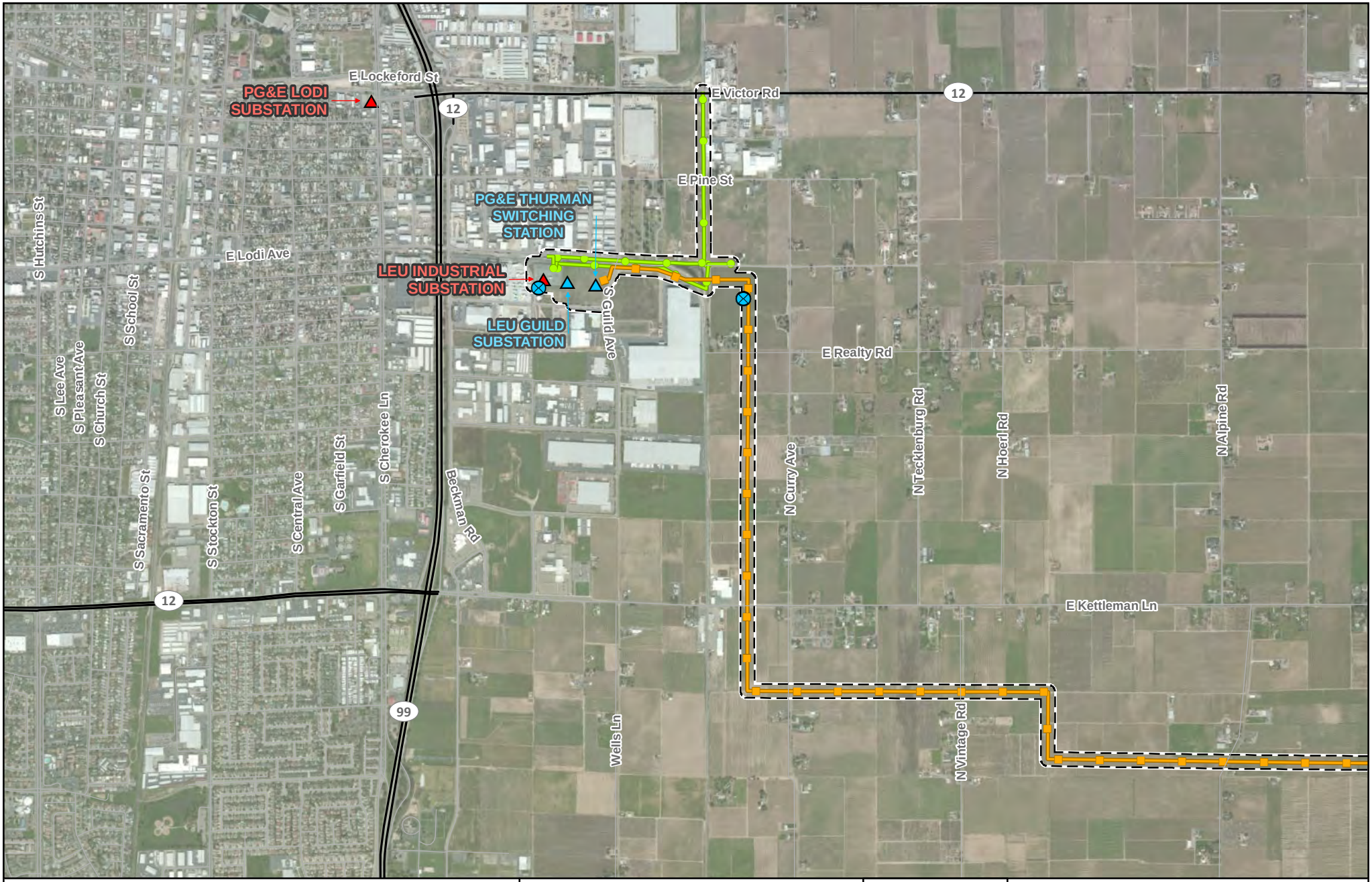
N

Scale: 1:24,000



FIGURE 5.10-5
Groundwater Wells and Springs within 150 feet of the Project Area
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-5_Groundwater_Wells_and_Springs_within_150_feet_of_the_Project_Area_v02.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Groundwater Well
- Major_Roads
- Local Road
- 150-foot Radius Around Project Components

Source:
1) ESRI World Imagery
2) GAMA Ground Water Information System, Accessed April 2021.

0 1,600 3,200 Feet

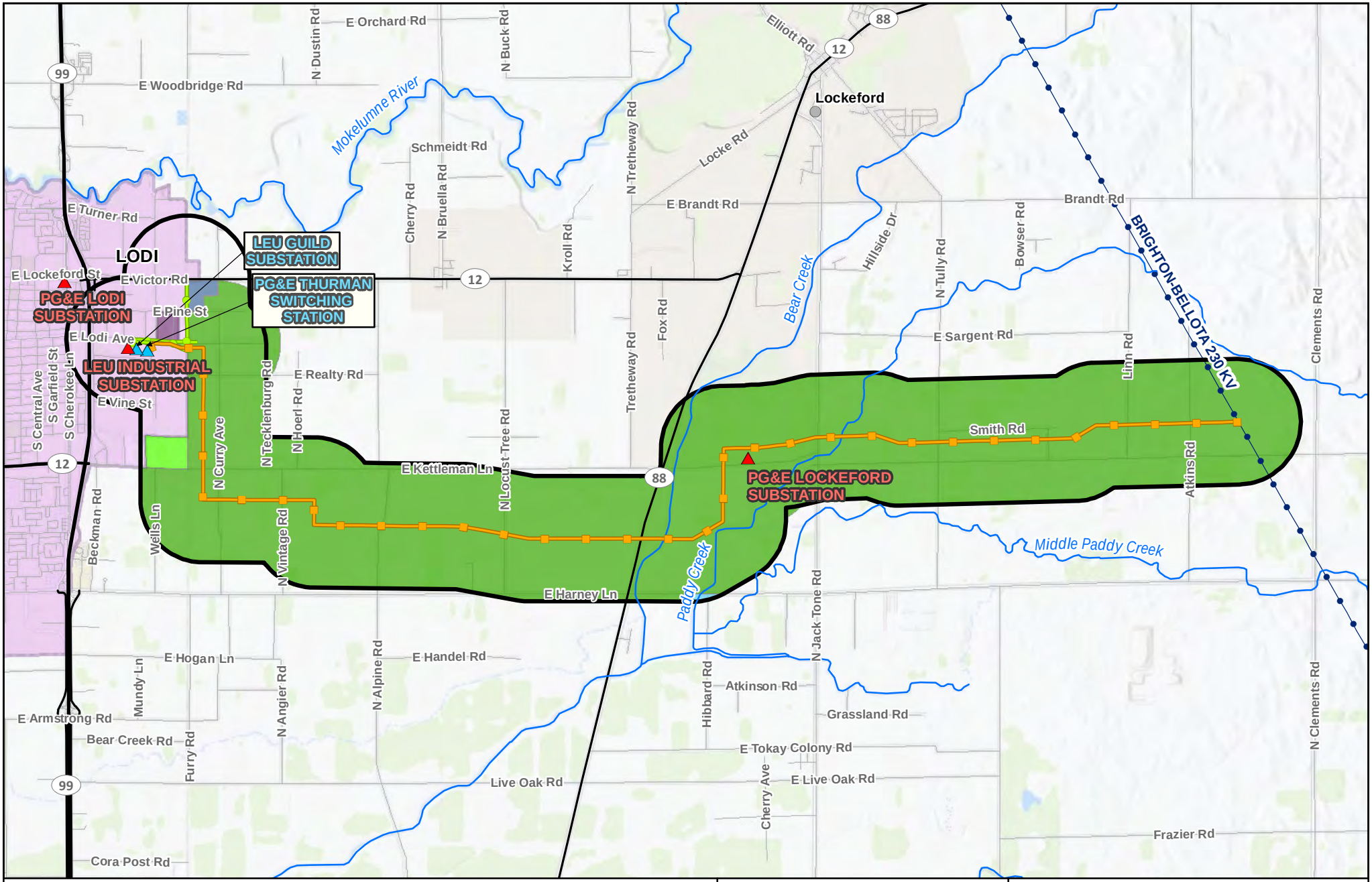
N

Scale: 1:24,000



FIGURE 5.10-5
Groundwater Wells and Springs within 150 feet of the Project Area
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\HydrologyWaterQuality\Figure_5.10-5_Groundwater_Wells_and_Springs_within_150_feet_of_the_Project_Area_v02.mxd kgrant1 7/27/2023



Legend

- New Substation/ Switch
- Existing Substation
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Half-mile Radius Around Project Components
- City Boundary
- Major_Roads
- Local Road
- River/Stream

San Joaquin County Zoning

- Agriculture-Urban Reserve
- Crossroads Commercial
- General Agriculture
- Limited Agriculture
- Limited Industrial
- Public Facilities

Sources:
1) Base Map Source: ESRI World Topo
2) San Joaquin County

0 0.5 1 Miles

N

Scale: 1:65,000

FIGURE 5.11-1
San Joaquin County Zoning
Northern San Joaquin 230 kV Transmission Project

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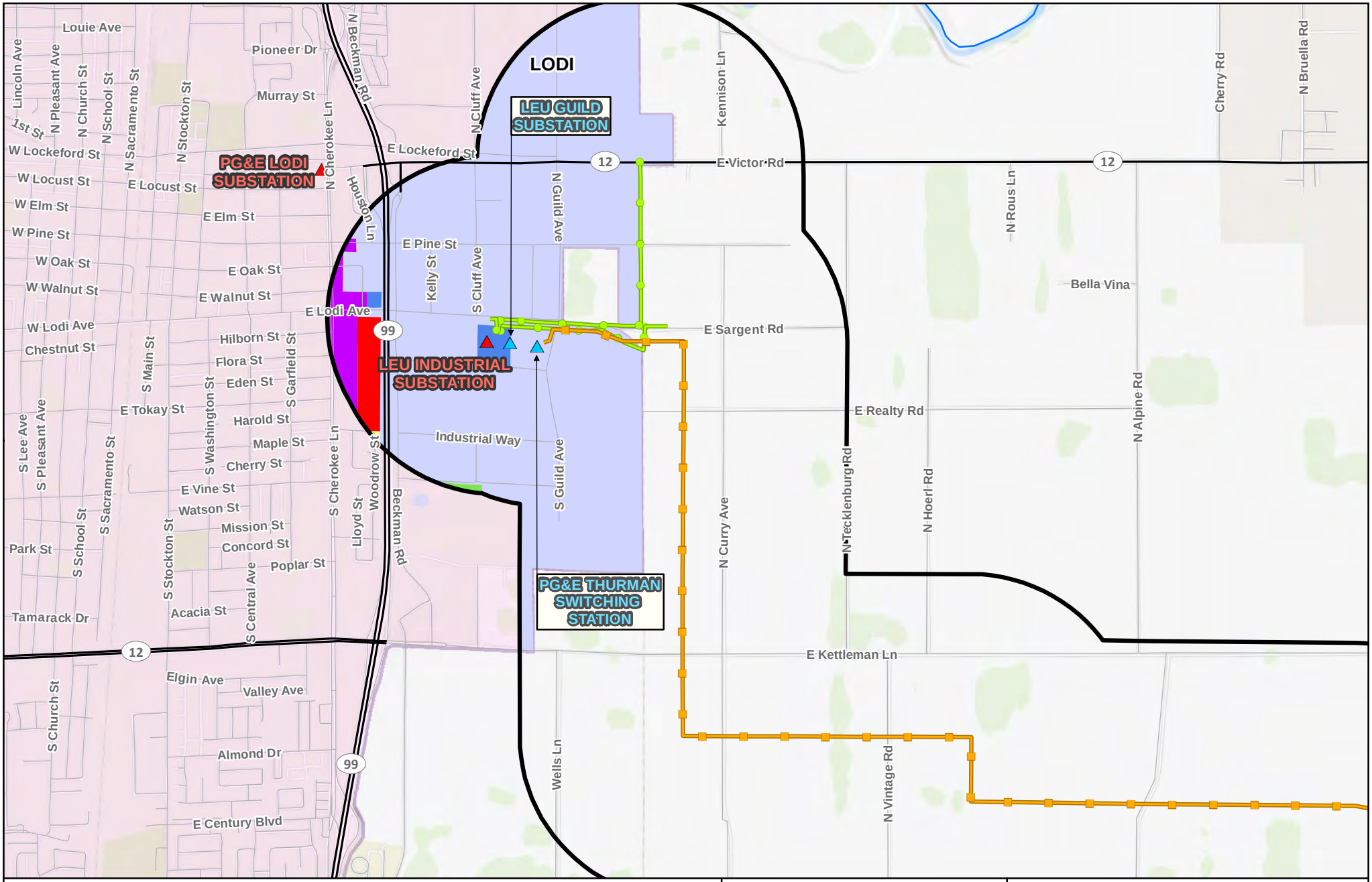


Legend

- Exsting Substation
- New Substation/Switch
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- Major_Roads
- Local Road
- River/Stream
- Half-mile Radius Around Project Components
- City Boundary

City of Lodi Zoning

- General Commercial (GC)
- Industrial (M)
- Low Density Residential (RLD)
- Mixed Use (MCO)
- Open Space (OS)
- Public/Quasi-Public (PQP)

Source:
1) Base Map Source: ESRI World Topo
2) City of Lodi General Plan, Planning Divison

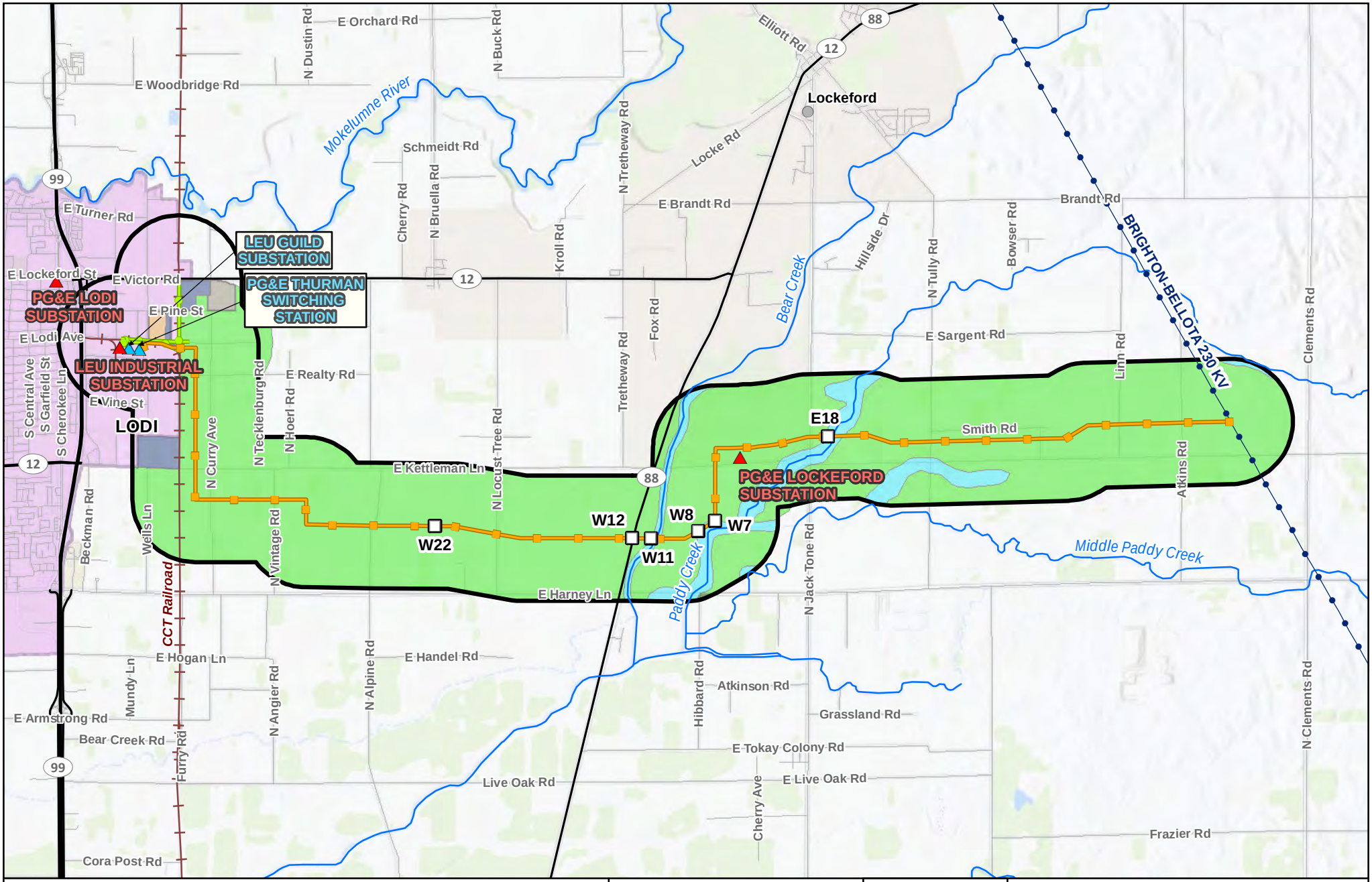
0 0.25 0.5 Miles

N

Scale: 1:25,000

FIGURE 5.11-2
City of Lodi Zoning
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\LandUse\Figure5.11-2_211029.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switch
- Proposed Structure
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Half-mile Radius Around Project Components
- City Boundary
- Local Road
- Major_Roads
- Railroad
- River/Stream

General Plan Land Use

- Agriculture/General (A/G)
- Agriculture/Limited (A/L)
- Industrial/Limited (I/L)
- Industrial/Truck Terminal (I/T)
- Open Space/Parks & Recreation (OS/PR)
- Open Space/ Resource Conservation (OS/RC)

Source:
1) Base Map Source: ESRI World Topo
2) San Joaquin County General Plan, Community Development Department

N

0 0.5 1 Miles

Scale: 1:65,000

Project Location

FIGURE 5.11-3
San Joaquin County Existing General Plan Land Use
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\LandUse\General_Plan\Figure5.11-3_211029.mxd kgrant1 7/27/2023

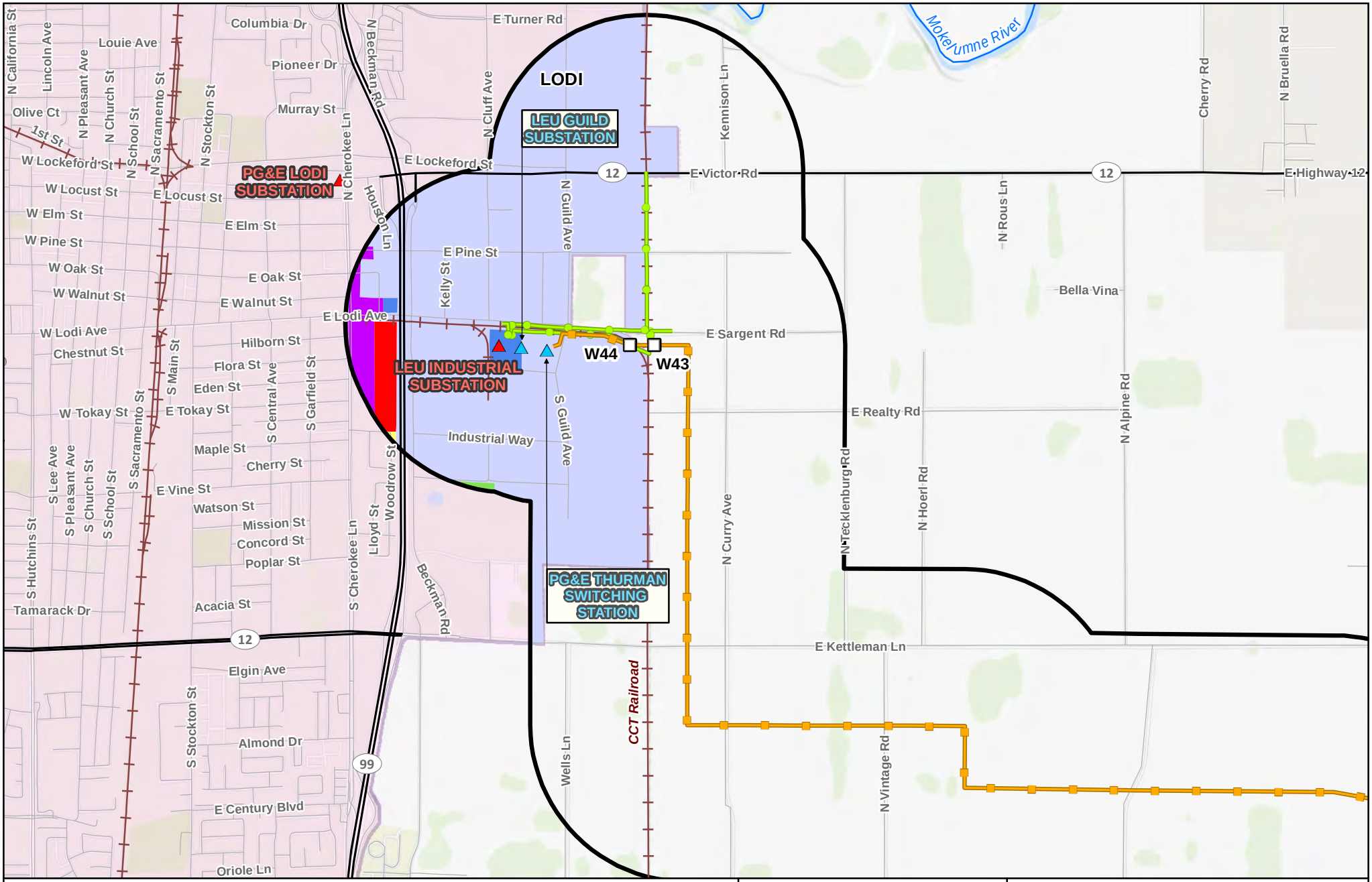


FIGURE 5.11-4
City of Lodi Existing General Plan Land Use
Northern San Joaquin 230 kV Transmission Project

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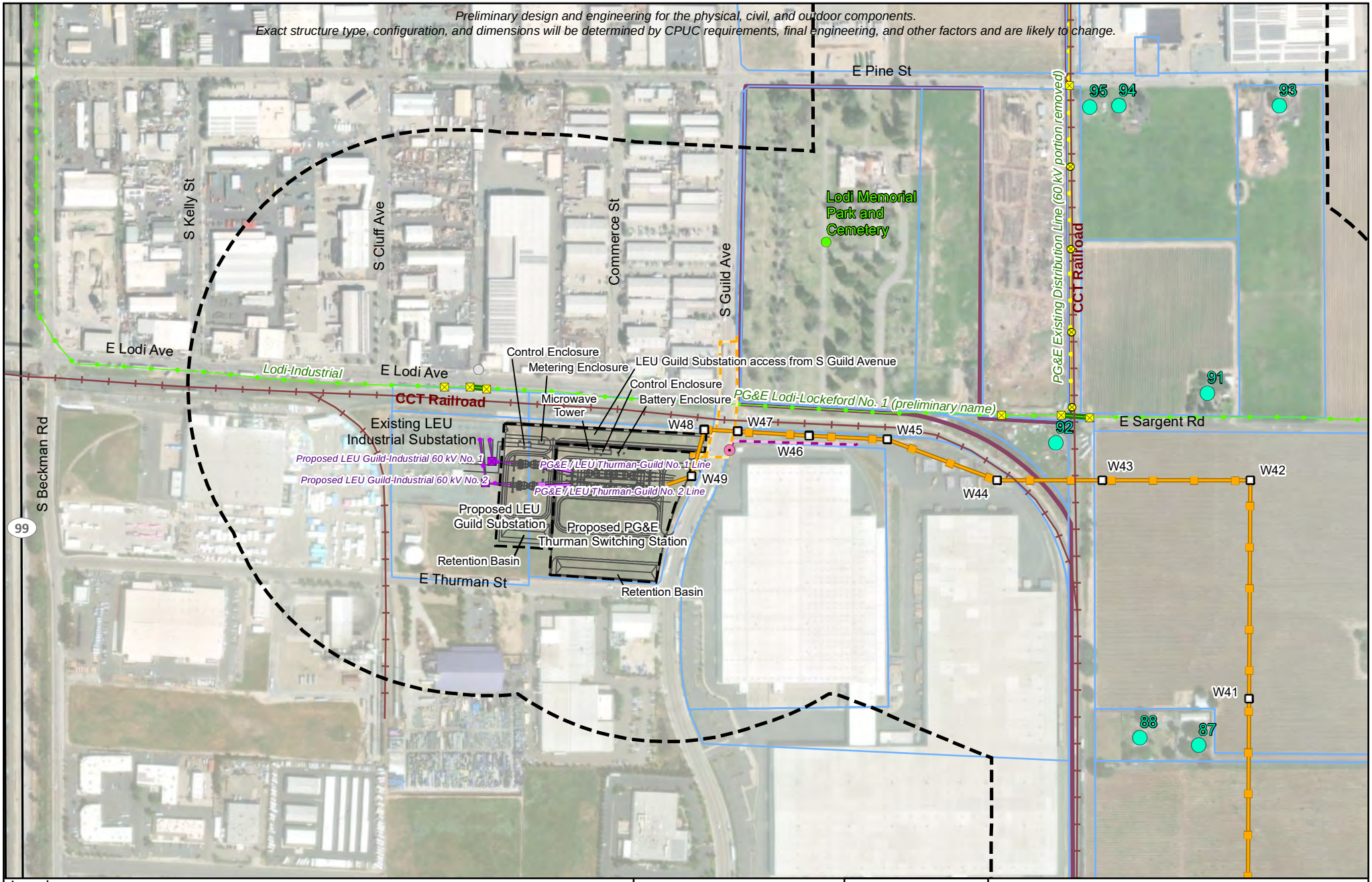


Legend

- 1,000-foot Radius Around Alignment
- Residential
- Lodi Memorial Park and Cemetery
- Northern San Joaquin 230 kV
- Proposed PG&E / LEU Thurman-Guild 230 kV
- Proposed LEU Guild-Industrial 60 kV
- Proposed LEU 60 kV Pole
- Proposed Structure
- Existing PG&E 60 kV Power Line
- New PG&E 60 kV Span
- Modified PG&E Line - Existing 12 kV Only
- PG&E Structure: Modify or Replace
- PG&E Structure: Topped
- Existing Guy Stub Pole: Remove
- Existing LEU 12 kV Distribution Pole
- Proposed LEU 12 kV Relocated Underground
- PG&E Thurman Switching Station Underground 12 kV Route Option
- Railroad
- Parcel Boundary
- City of Lodi Boundary

Source:
1) ESRI World Imagery

0 100 200
Feet

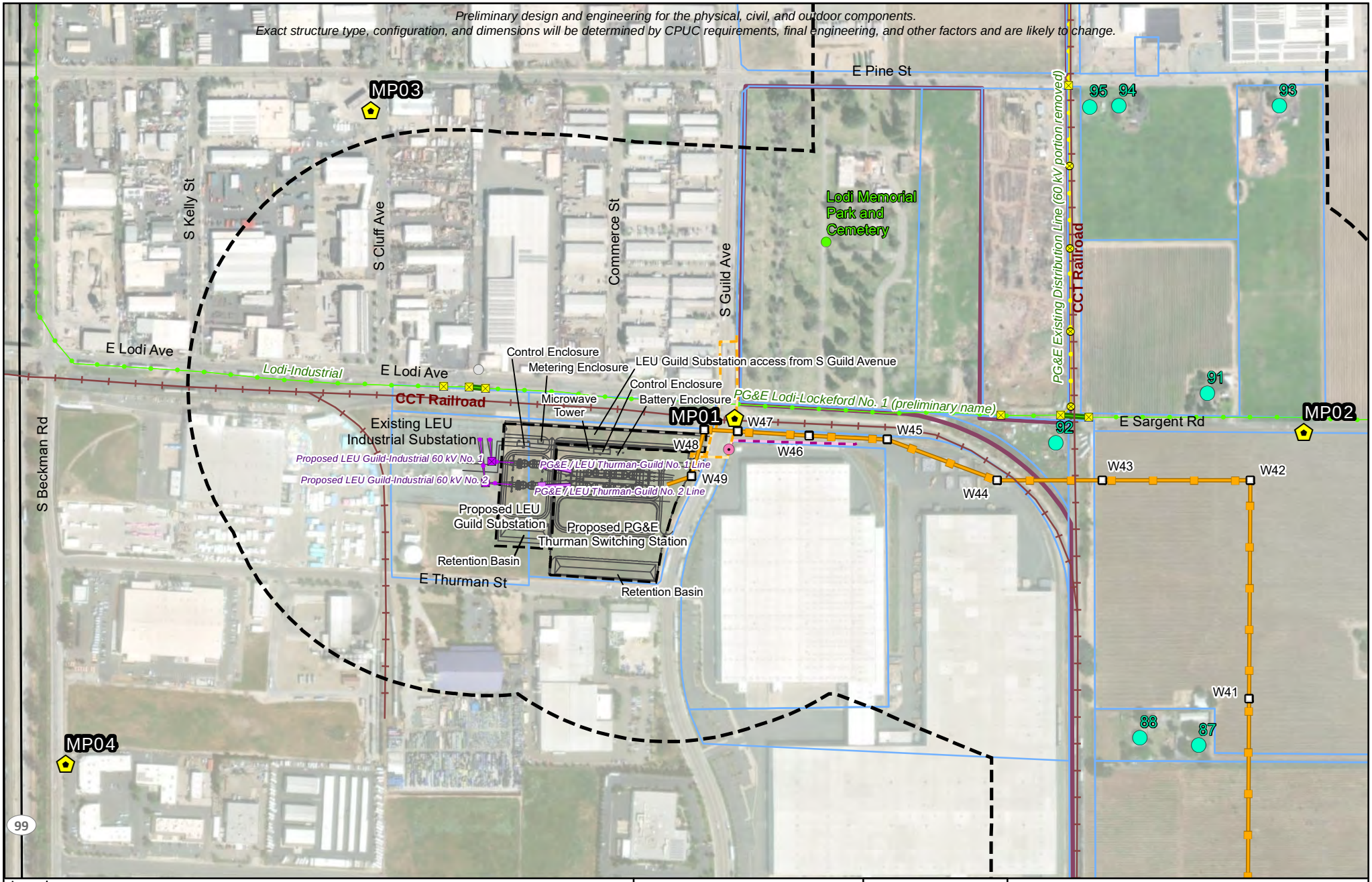
N

Scale:
1:6,010

Project Location

FIGURE 5.13-1
Noise Sensitive Land Uses within 1,000 feet of Work Near PG&E Thurman Switching Station
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Noise\Figure5.13-1_NoiseReceptorsThurman.mxd kgrant1 7/27/2023



Legend

- Noise Measurement Location
- Residential
- Lodi Memorial Park and Cemetery
- Northern San Joaquin 230 kV
- Proposed PG&E / LEU Thurman-Guild 230 kV
- Proposed LEU Guild-Industrial 60 kV
- Proposed LEU 60 kV Pole
- Proposed Structure
- Existing PG&E 60 kV Power Line
- New PG&E 60 kV Span
- Modified PG&E Line - Existing 12 kV Only
- PG&E Structure: Modify or Replace
- PG&E Structure: Topped
- Existing Guy Stub Pole: Remove
- Existing LEU 12 kV Distribution Pole
- Proposed LEU 12 kV Relocated Underground
- PG&E Thurman Switching Station Underground 12 kV Route Option
- Railroad
- Parcel Boundary
- City of Lodi Boundary
- 1,000-foot Radius Around Alignment

Source:
1) ESRI World Imagery

0 100 200
Feet

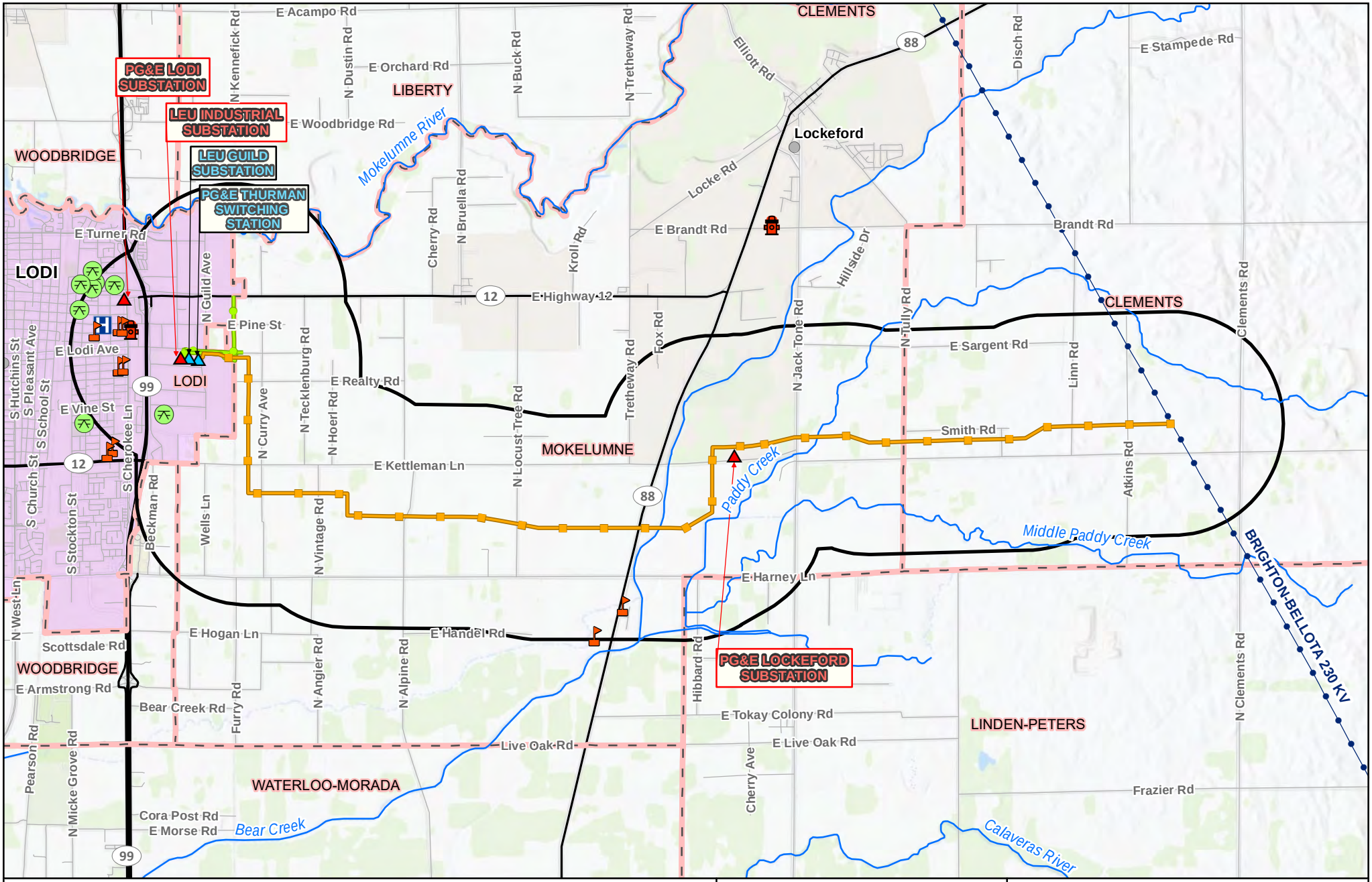
N

Scale:
1:6,010

Project Location

FIGURE 5.13-2
Noise Measurement Locations Near PG&E Thurman Switching Station
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Noise\Figure5.13-2_MonitoringPts-121922.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line Modification
- Existing PG&E 230 kV Transmission Line
- One-mile Radius Around Project Components
- Park/Recreation Area
- School
- Fire Department
- Hospital
- Fire District Boundary
- City Boundary
- Major_Roads
- Local Road
- River/Stream

Source:
1) Base Map Source: ESRI World Topo
2) San Joaquin County General Plan, Community Development Department

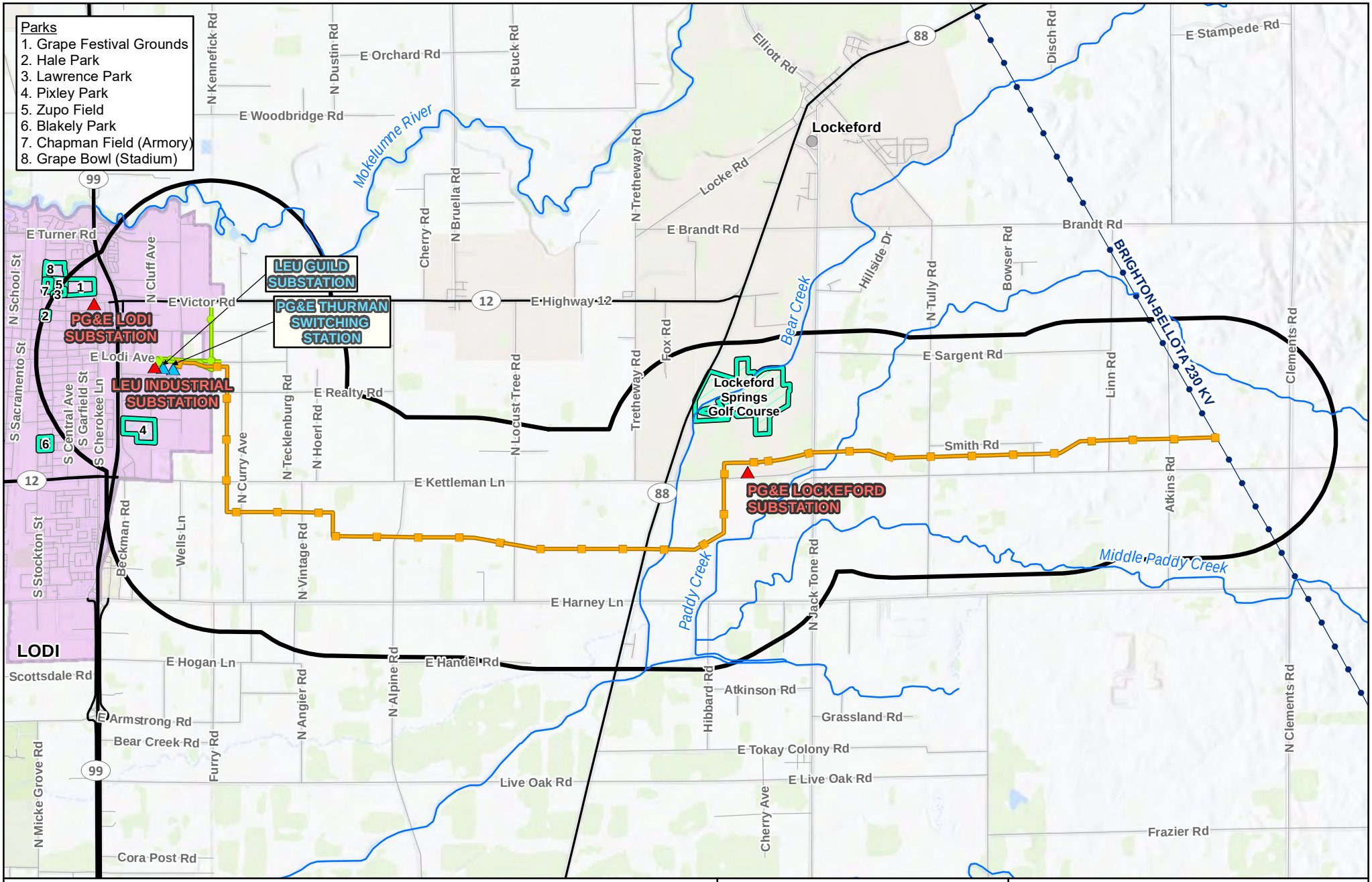
0 0.5 1 Miles

N

Scale: 1:72,865

FIGURE 5.15-1
Service Providers
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\LandUse\Service_Providers\Figure5.15-1_211029.mxd kgrant1 7/27/2023



Legend

- New Substation/ Switch
- Existing Substation
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- One-mile Radius Around Project Components
- Park/Recreation Area within 1 mile of project
- City Boundary
- Major_Roads
- Local Road
- River/Stream

Sources:
1) Base Map Source: ESRI World Topo
2) San Joaquin County

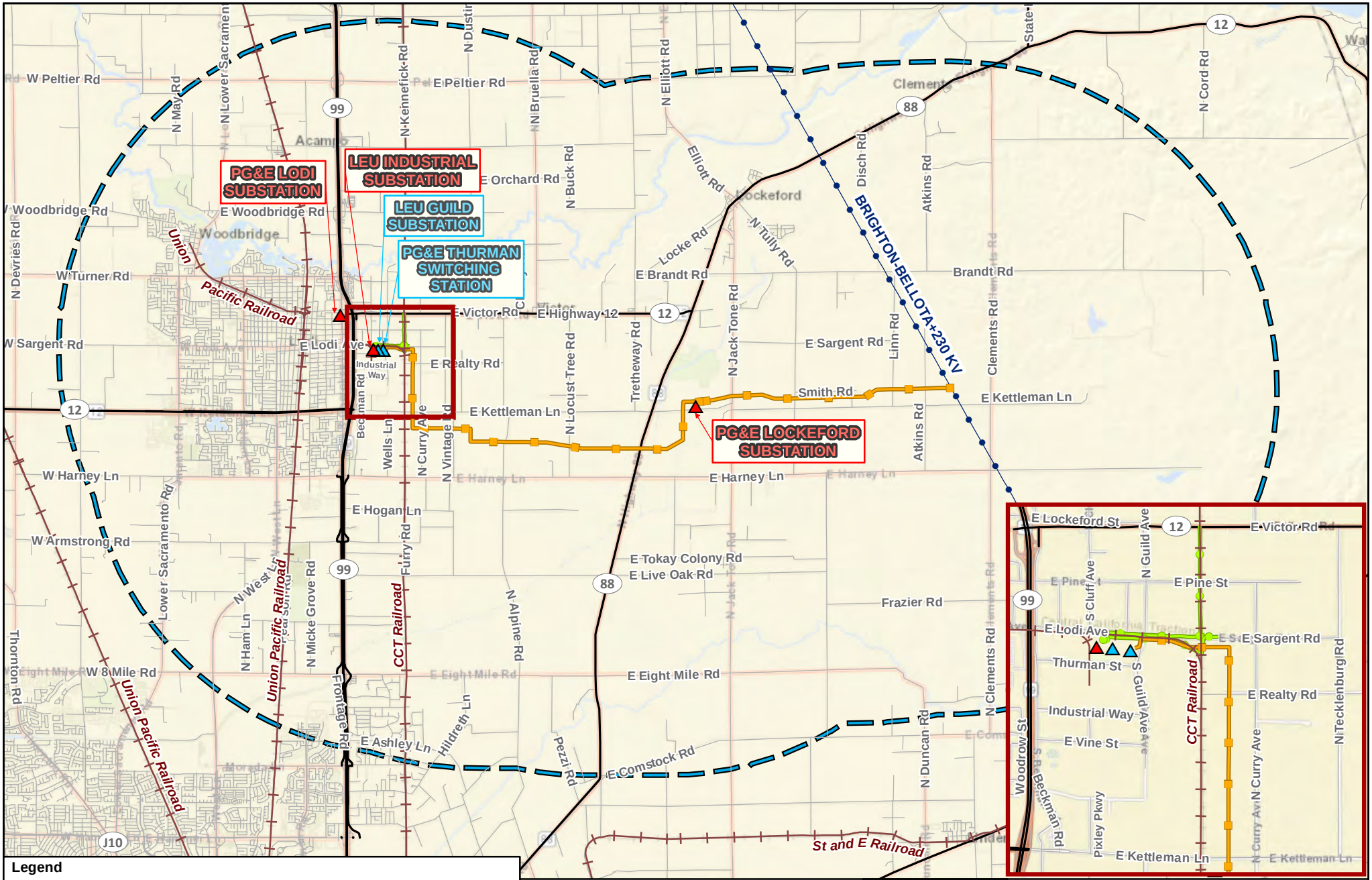
0 0.5 1 Miles

N

Scale: 1:68,000

FIGURE 5.16-1
Parks and Recreation Areas
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Recreation\Figure5.16-1_211029.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line Modification
- Existing PG&E 230 kV Transmission Line
- 5-mile Radius Around Project Components
- Major_Roads
- Railroad
- Local Road

Source:
1) ESRI World Street Map

0 8,400 16,800 Feet

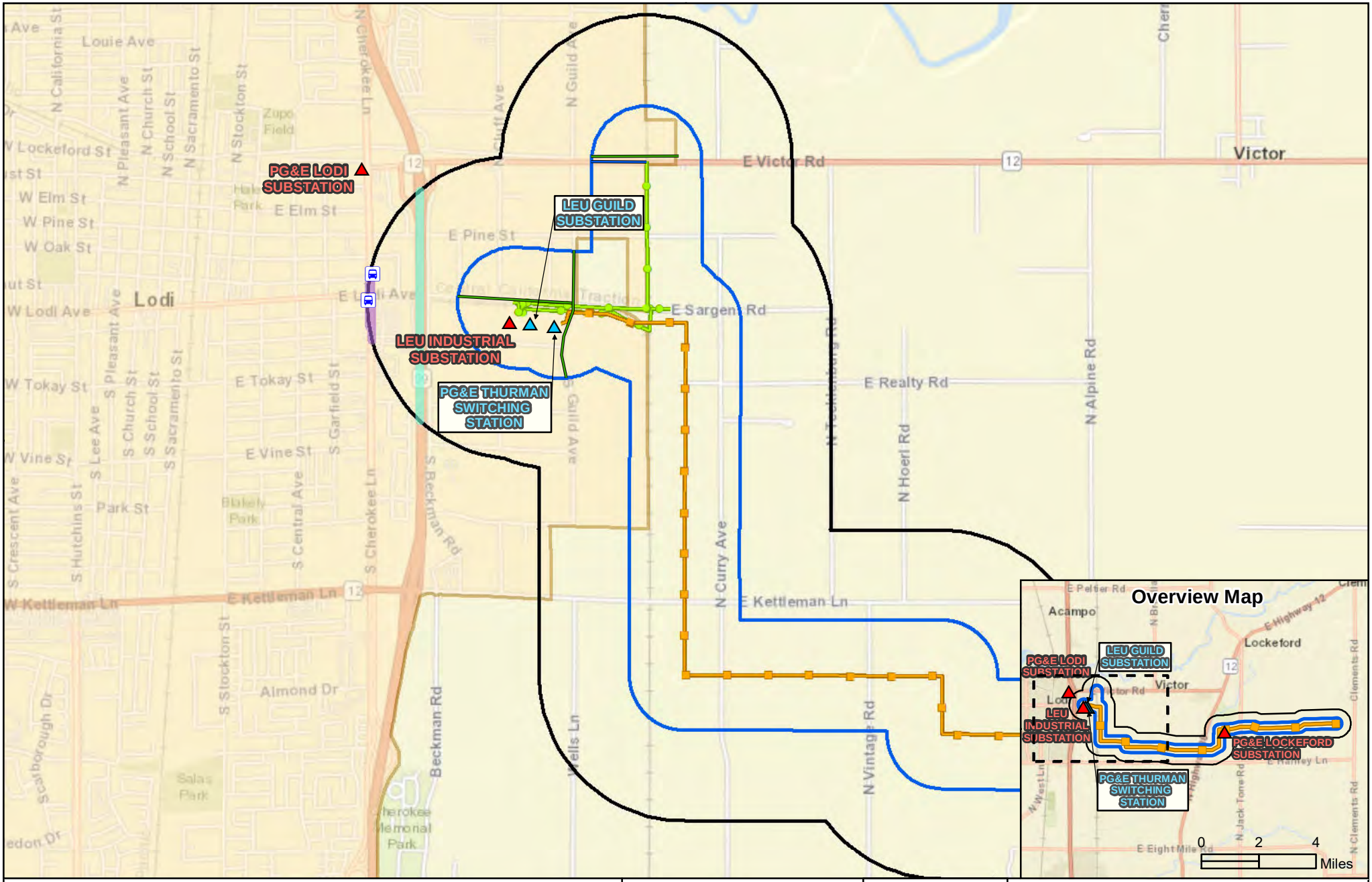
N

Scale: 1:125,000

Project Location

FIGURE 5.17-1
Existing Roadway Network
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Transportation\Figure5.17-1_Existing_Roadway_Networkv02.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line Modification
- 0.5-mile Radius Around Project Components
- 1,000-foot Radius Around Project Components
- City of Lodi Boundary
- Lodi Transit Stop
- Lodi Transit Route 5
- San Joaquin Regional Transit District Commuter Route 163

Lodi Bike Plan

- Bike Path (Proposed)
- Bike Lane (Proposed)

Source:
1) ESRI World Street Map

0 0.25 Miles

N

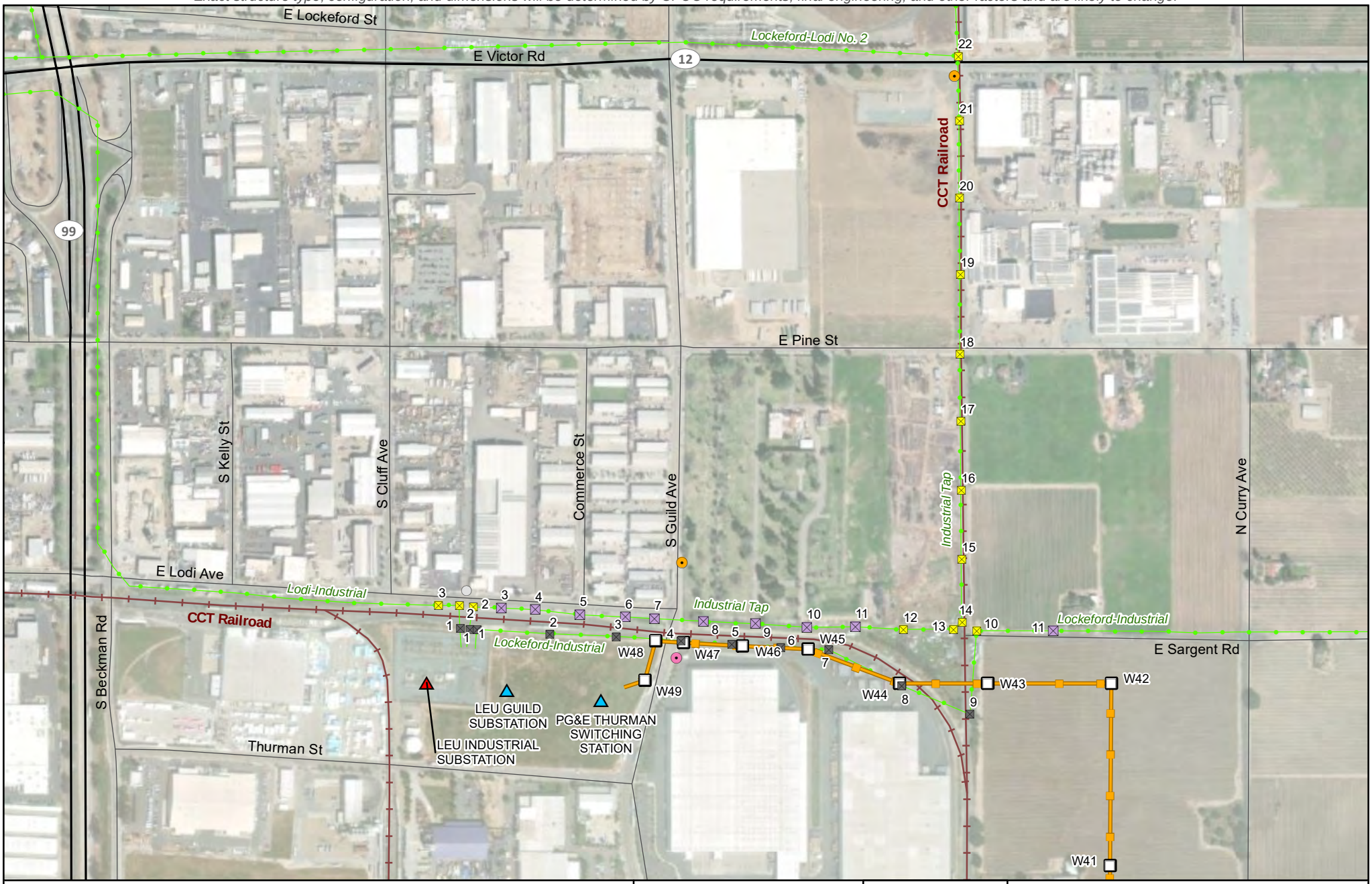
Scale: 1:28,000

Project Location

FIGURE 5.17-2
Transit, Rail, and Bicycle Services
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Transportation\Figure5.17-2_Transit_and_Bicycle_Services_211029.mxd kgrant1 7/27/2023

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Exsting Substation
- New Substation/ Switching Station
- Proposed Structure
- PG&E New 230 kV Transmission Line
- Existing LEU 12 kV Distribution Pole
- Existing PG&E 60 kV Power Line
- 60 kV Structure: Modify or Replace
- 60 kV Structure: Remove
- Existing 60 KV Structure
- Existing Guy Stub Pole: Remove
- Existing PG&E 12 kV Distribution Pole
- Railroad
- Major_Roads
- Local Road

Source:
1) ESRI World Imagery

0 250 500 Feet

N

Scale: 1:7,200



FIGURE 5.17-3
Existing Transportation - Lodi Project Area
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\Transportation\Figure5.17-3_60kV_Lines_220924.mxd kgrant1 7/27/2023

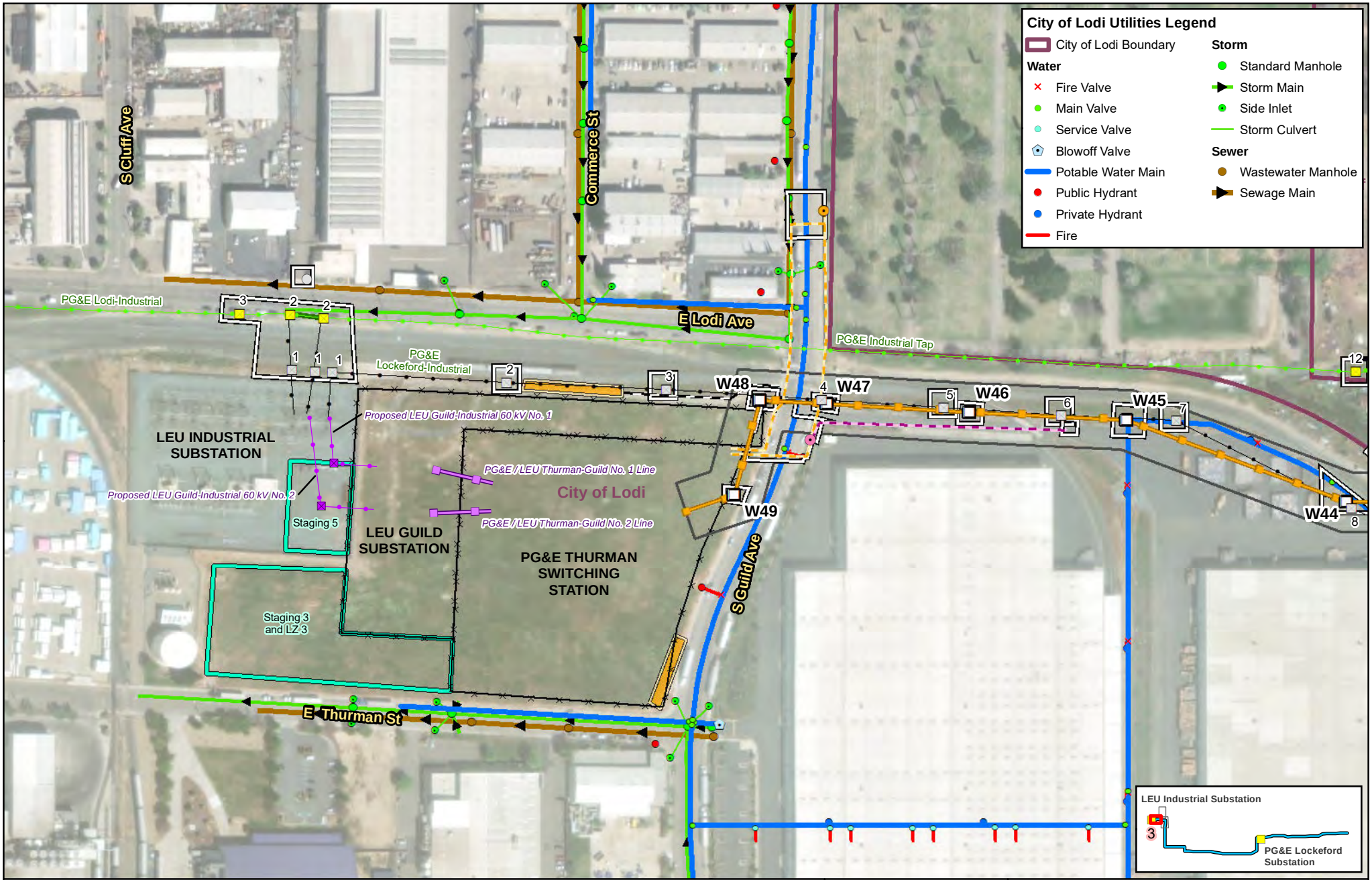
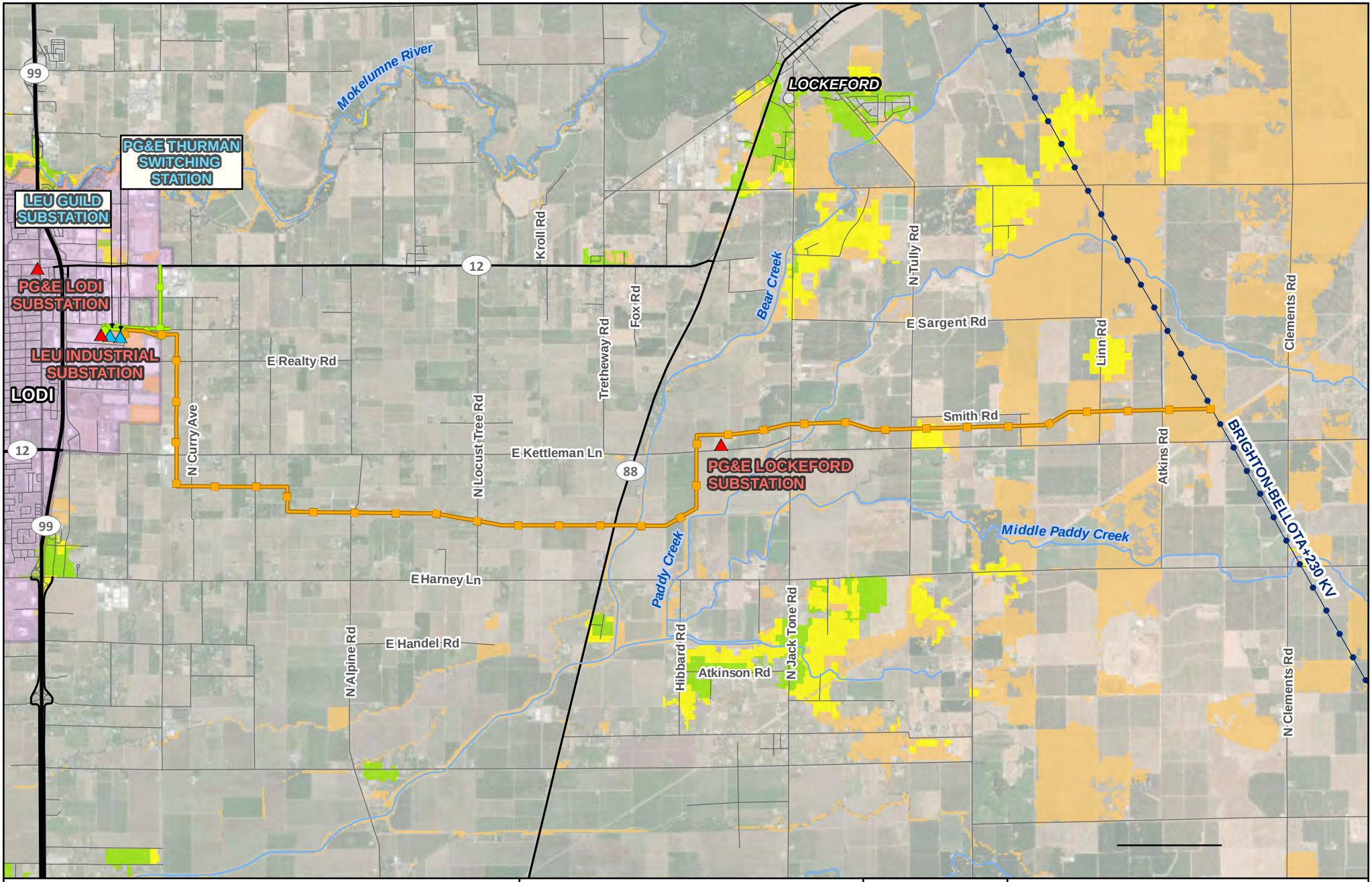


FIGURE 5.19-1
Existing City of Lodi Water, Storm and Sewer Utilities
Page 3 of 3
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Utilities\Figure5.19-1_Lodi_Utilities_230616.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switch
- Northern San Joaquin 230 kV
- Existing 60 kV Power Line Modification
- 230 kV Existing Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary

Wildland Urban Interface (WUI)

- Intermix
- Interface
- Influence Zone

Source:
1) Base Map Source: ESRI World Imagery

0 0.5 1 Miles

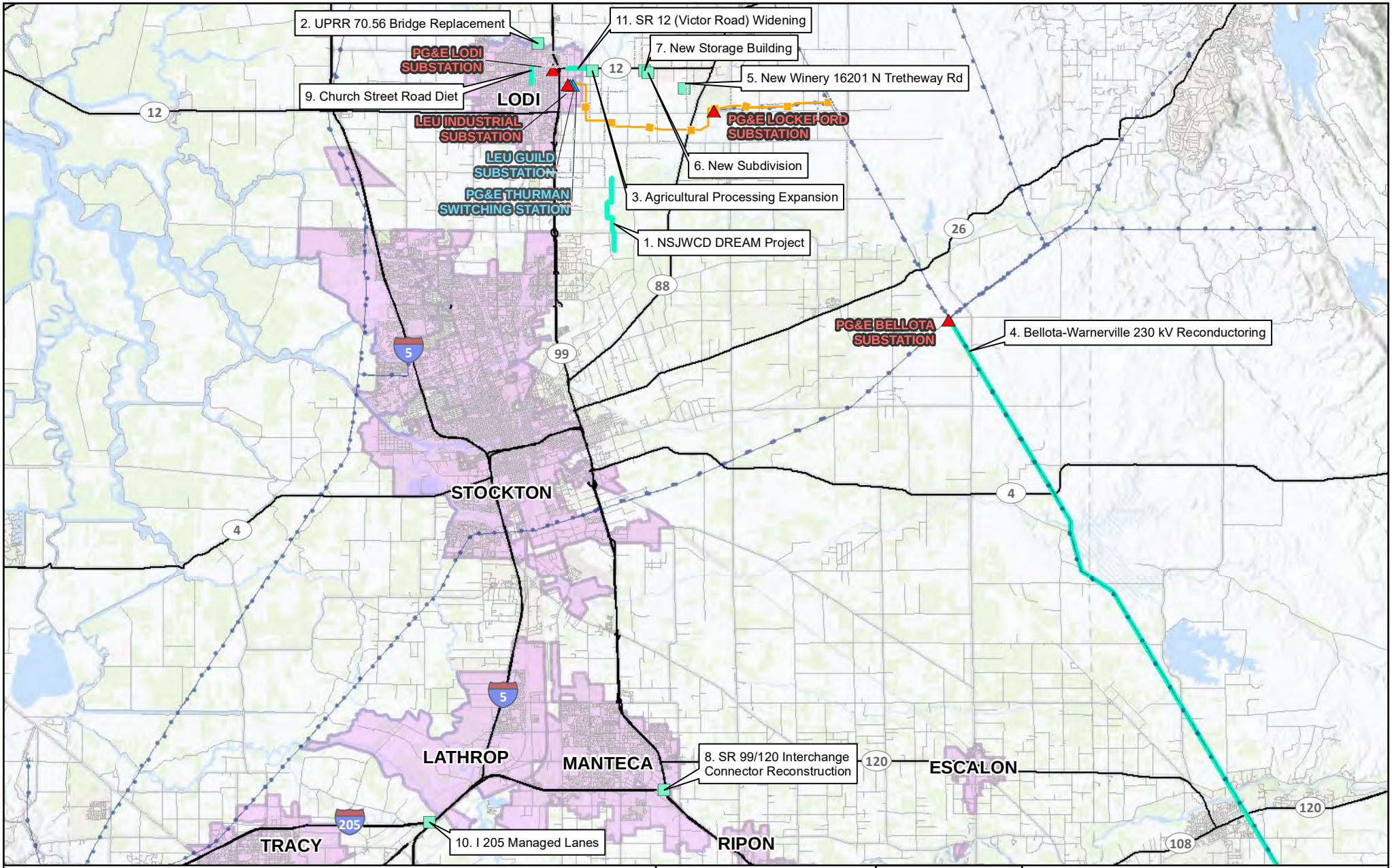
N

Scale: 1:65,000

Project Location

FIGURE 5.20-1
Wildland Urban Interface
Northern San Joaquin 230 kV Transmission Project

\\Dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\Temp\WUI_Fire_Hazards_220627.mxd kgrant1 7/27/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line

Existing PG&E Power and Transmission Lines

- 230
- Cumulative Project Location
- Cumulative Project (Linear)
- Major_Roads
- Local Road
- City Boundary

Source:
1) Base Map Source: ESRI World Topo

Scale:
1:280,256

0 2 4 Miles

N

Project Location

FIGURE 7.1-1
Cumulative Projects in the Project Vicinity
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Cumulative\Cumulative_221229.mxd kgrant1 7/27/2023

Appendix A2
Representative Photographs Table and Figures 5.1-2a through 5.1-2f

A.2 Representative Photographs Table

Pacific Gas and Electric Company
Northern San Joaquin 230 kV Transmission Project

Photograph Number and Location * denotes Key Observation Point	Viewing Direction	Capture Date and Time	Location Coordinates (Lat, Long)	Approximate Elevation (feet)
1. Clements Road	Southwest	3/12/2021 11:38 AM	N38.124311, W121.078077	144
2. North Linn Road near East Kettleman Lane	West	3/12/2021 11:03 AM	N38.119185, W121.105677	135
3. Smith Road at North Jory Road	Southwest	3/12/2021 10:48 AM	N38.121274, W121.117364	106
4. East Kettleman Lane at North Tully Road	Northeast	3/12/2021 10:38 AM	N38.117217, W121.132934	92
5. North Jack Tone Road near East Kettleman Lane*	South	3/12/2021 10:29 AM	N38.121163, W121.150929	89
6. East Kettleman Lane near PG&E Lockeford Substation	Northwest	4/2/2021 12:49 PM	N38.117085, W121.155345	86
7. SR 88	South	3/12/2021 9:41 AM	N38.109634, W121.176186	78
8. Intercoastal Vineyard at SR 88	North	4/2/2021 1:15 PM	N38.104306, W121.178310	71
9. Harmony Wynelands winery near East Harney Lane	North	3/12/2021 12:35 PM	N38.104934, W121.202590	72
10. North Alpine Road	North	7/22/2021 11:38 AM	N38.107886, W121.214992	67
11. Prie Vineyard and Winery at Alpine Road	Southeast	7/22/2021 1:48 PM	N38.122020, W121.214319	74
12. Mettler Family Vineyards at East Harney Lane*	North	7/22/2021 11:16 AM	N38.103605, W121.219225	60
13. East Kettleman Lane at Hoerl Road	Southwest	4/2/2021 11:38 AM	N38.115935, W121.227076	65
14. East Kettleman Lane near North Curry Avenue*	Northwest	7/22/2021 2:15 PM	N38.115804, W121.237184	63
15. East Kettleman Lane at Pixley Parkway	East	3/12/2021 4:07 PM	N38.116014, W121.251494	58
16. East Realty Road at North Curry Avenue	Northwest	3/12/2021 1:53 PM	N38.126759, W121.238442	64
17. South Guild Avenue near East Thurman Road	North	3/12/2021 3:42 PM	N38.127964, W121.248566	59
18. East Thurman Road*	Northeast	4/2/2021 10:54 AM	N38.128568, W121.252190	59

Notes:

Lat, Long = Latitude, Longitude

All photographs were taken with Nikon Z-5 full-frame digital camera and a 50-millimeter lens. Elevation height includes camera height of 5.5 feet.

1

1. Clements Road looking southwest towards eastern end of project



2

2. North Linn Road near East Kettleman Lane looking west



3

3. Smith Road at North Jory Road looking southwest



Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2a
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

4. East Kettleman Lane at North Tully Road looking northeast



5. North Jack Tone Road near East Kettleman Lane looking south*



6. East Kettleman Lane near Lockeford Substation looking northwest



* KOP; see Figure 5.1-3 for visual simulation
Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2b
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

ENVIRONMENTAL VISION
111521

7

7. State Route 88 looking south



8

8. Intercoastal Vineyard at State Route 88 looking north



9

9. Harmony Wynelands winery near East Harney Lane looking north



Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2c
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

10



10. North Alpine Road looking north

11



11. Prie Winery at North Alpine Road looking southeast

12*



12. Mettler Family Vineyards at East Harney Lane looking north*

* KOP; see Figure 5.1-4 for visual simulation
Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2d
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

13



13. East Kettleman Lane at Hoerl Road looking southwest

14*



14. East Kettleman Lane near North Curry Avenue looking northwest*

15



15. East Kettleman Lane at Pixley Parkway looking east

* KOP; see Figure 5.1-5 for visual simulation
Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2e
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

16



16. East Realty Road at North Curry Avenue looking northwest

17



17 South Guild Avenue near East Thurman Road looking north

18*



18 East Thurman Road looking northeast*

* KOP; see Figure 5.1-6 for visual simulation
Refer to Figure 5.1-1a for photograph viewpoint locations

Figure 5.1-2f
Representative Photographs
PG&E Northern San Joaquin 230 kV Transmission Project

Appendix B1a
Construction Emissions Calculations for PG&E Sites

Table 1
Project Emissions Summary - Criteria Pollutants
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Annual Construction Emissions (2026-2029)

		Annual Emissions (ton/year)					
	Construction Phase	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}** [b]	**$PM_{2.5}$** [b]
PG&E 230 kV Transmission Lines Construction	Construction Year 2026	0.05	0.56	0.51	0.00	0.46	0.05
	Construction Year 2027	0.69	2.90	1.88	0.04	0.92	0.12
	Construction Year 2028	0.00	0.01	0.00	0.00	0.03	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Lockeford Substation Expansion	Construction Year 2026	0.11	1.10	1.72	0.01	3.15	0.39
	Construction Year 2027	0.08	1.04	0.72	0.00	0.38	0.06
	Construction Year 2028	0.10	1.25	0.91	0.00	0.50	0.07
	Construction Year 2029	0.03	0.41	0.30	0.00	0.16	0.02
PG&E 12 kV Service Line Extension (to PG&E Thurman Switching Station)	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.01	0.17	0.12	0.00	0.04	0.01
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Remote End Substations Construction	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.00	0.01	0.00	0.00	0.00	0.00
	Construction Year 2028	0.00	0.04	0.02	0.00	0.01	0.00
	Construction Year 2029	0.00	0.02	0.01	0.00	0.00	0.00
PG&E Thurman Switching Station Construction	Construction Year 2026	0.03	0.29	0.29	0.00	0.11	0.02
	Construction Year 2027	0.12	1.33	1.73	0.01	2.87	0.36
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Microwave Tower Construction (within Thurman Switching Station)	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.02	0.27	0.25	0.00	0.29	0.04
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
PG&E 60 kV Power Lines Reconfiguration	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.01	0.07	0.05	0.00	0.07	0.00
	Construction Year 2028	0.01	0.08	0.06	0.00	0.10	0.01
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total PG&E Construction Sites	Construction Year 2026	0.19	1.95	2.51	0.01	3.72	0.46
	Construction Year 2027	0.93	5.79	4.74	0.06	4.57	0.58
	Construction Year 2028	0.11	1.37	1.00	0.00	0.63	0.08
	Construction Year 2029	0.03	0.43	0.31	0.00	0.17	0.02
LEU Site (Industrial and Guild substations and 12 kV feeder line)	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.20	1.37	1.45	0.01	1.30	0.26
	Construction Year 2028	0.01	0.10	0.12	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
Total PG&E and LEU Construction	Construction Year 2026	0.19	1.95	2.51	0.01	3.72	0.46
	Construction Year 2027	1.12	7.16	6.19	0.06	5.87	0.84
	Construction Year 2028	0.12	1.46	1.12	0.00	0.64	0.09
	Construction Year 2029	0.03	0.43	0.31	0.00	0.17	0.02
SJVAPCD CEQA Significance Threshold		**10**	**100**	**10**	**27**	**15**	**15**

Note:

Emissions from LEU Construction were obtained from the City of Lodi 2022

Operation and Maintenance Emissions - 2030 and beyond

	Annual Emissions (ton/year)					
Sites	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
PG&E	0.017	0.035	0.020	0.001	0.005	0.002
LEU	0.530	0.110	0.130	0.001	0.009	0.009
Total	0.547	0.145	0.150	0.002	0.014	0.011
SJVAPCD CEQA Significance Threshold	**10**	**100**	**10**	**27**	**15**	**15**

Note:

Emissions from LEU Construction were obtained from the City of Lodi 2022

Table 2
Project Emissions Summary - Criteria Pollutants
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

PGE Site Onsite Construction Emissions (2026-2029)

Construction Sites	Construction Phase	Onsite Emissions						
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	DPM
		lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/year
PG&E 230 kV Transmission Lines Construction	Construction Year 2026	3.79	36.93	31.67	0.10	3.04	1.30	33.68
	Construction Year 2027	25.62	86.47	55.56	1.59	3.37	2.06	132.37
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Lockeford Substation Expansion	Construction Year 2026	6.95	65.35	62.19	0.14	2.50	2.35	68.78
	Construction Year 2027	2.19	27.43	19.03	0.05	1.33	0.76	49.14
	Construction Year 2028	1.24	14.55	10.87	0.03	1.03	0.47	64.11
	Construction Year 2029	0.87	10.73	7.35	0.02	0.28	0.27	21.16
PG&E 12 kV Service Line Extension (to PG&E Thurman Switching Station)	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	2.31	26.74	19.61	0.06	1.48	0.79	8.40
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Remote End Substations Construction	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2028	1.55	19.76	13.57	0.04	0.57	0.53	1.91
	Construction Year 2029	1.55	19.76	13.57	0.04	0.57	0.53	0.96
PG&E Thurman Switching Station Construction [1]	Construction Year 2026	2.87	28.26	26.16	0.05	1.11	1.04	22.15
	Construction Year 2027	3.62	33.69	33.33	0.07	1.34	1.26	74.37
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PG&E Microwave Tower Construction (within Thurman Switching Station) [1]	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.85	8.90	6.80	0.02	0.26	0.25	13.53
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PG&E 60 kV Power Lines Reconfiguration	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	0.95	9.16	8.42	0.03	0.91	0.35	3.41
	Construction Year 2028	0.95	9.16	8.42	0.03	0.91	0.35	3.41
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combined for areas near Thurman Switching Station (including Thurman Switching Station, Microwave Tower, and 12kV Service Line Extension)	Construction Year 2026	2.87	28.26	26.16	0.05	1.11	1.04	22.15
	Construction Year 2027	4.21	49.04	35.76	0.11	2.10	1.38	96.30
	Construction Year 2028	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worst-case Onsite Emissions from PG&E Sites	Construction Year 2026	6.95	65.35	62.19	0.14	3.04	2.35	68.78
	Construction Year 2027	25.62	86.47	55.56	1.59	3.37	2.06	132.37
	Construction Year 2028	1.55	19.76	13.57	0.04	1.03	0.53	64.11
	Construction Year 2029	1.55	19.76	13.57	0.04	0.57	0.53	21.16
SJVAPCD Air Quality Screening Thresholds		**100**	**100**	**100**	**100**	**100**	**100**	NA

Note:
1. Daily emissions of from Thurman station, the microwave tower, and PG&E 12 kV Service Line Extension construction are combined as from one site when evaluating the maximum daily emissions from each site.

Table 2

Project Emissions Summary - Criteria Pollutants

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

LEU Maximum Onsite Daily Emissions

		Onsite Emissions (lb/day)					
		ROG	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
LEU Site	Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
	Construction Year 2027	6.01	41.53	44.35	0.15	9.92	6.06
	Construction Year 2028	1.96	12.10	16.21	0.04	0.62	0.57
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
Combined Onsite Emissions of LEU Guild Substation, PGE's Thurman Switching Station, PGE's Microwave Tower at Thurman Switching Station, 12kV Service Line Extension)	Construction Year 2026	2.87	28.26	26.16	0.05	1.11	1.04
	Construction Year 2027	6.89	67.93	54.12	0.17	9.92	6.06
	Construction Year 2028	1.96	12.10	16.21	0.04	0.62	0.57
	Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00
SJVAPCD Air Quality Screening Thresholds		**100**	**100**	**100**	**100**	**100**	**100**

Note:

Emissions from LEU Construction were obtained from the City of Lodi 2022

Daily emissions from LEU Guild Substation, PG&E's Thurman Switching Station, and PGE's Microwave Tower at Thurman switching station were combined to compare with the thresholds because these two sites are next to each other.

Operation and Maintenance Emissions - 2030 and beyond

	Daily Emissions (lb/day)					
Sites	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
PGE	32.53	46.98	18.57	2.34	1.19	0.71
LEU	3.15	2.16	2.10	0.01	0.10	0.10
SJVAPCD Air Quality Screening Thresholds	**100**	**100**	**100**	**100**	**100**	**100**

Note:

Emissions from LEU Construction were obtained from the City of Lodi 2022

Table 3
Project Emissions Summary - GHG
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Emissions (2026-2029)

		Annual Emissions (metric ton/year
	Construction Phase	**CO2e**
PG&E 230 kV Transmission Lines Construction	Construction Year 2026	209.64
	Construction Year 2027	566.73
	Construction Year 2028	2.17
	Construction Year 2029	0.00
PG&E Lockeford Substation Expansion	Construction Year 2026	976.71
	Construction Year 2027	234.79
	Construction Year 2028	299.75
	Construction Year 2029	0.05
PG&E 12 kV Service Line Extension (to PG&E Thurman Switching Station)	Construction Year 2026	0.00
	Construction Year 2027	38.50
	Construction Year 2028	0.00
	Construction Year 2029	0.00
PG&E Remote End Substations Construction	Construction Year 2026	0.00
	Construction Year 2027	3.30
	Construction Year 2028	6.93
	Construction Year 2029	3.77
PG&E Thurman Switching Station Construction	Construction Year 2026	69.27
	Construction Year 2027	934.13
	Construction Year 2028	0.00
	Construction Year 2029	0.00
PG&E Microwave Tower Construction (within Thurman Switching Station)	Construction Year 2026	0.00
	Construction Year 2027	116.23
	Construction Year 2028	0.00
	Construction Year 2029	0.00
PG&E 60 kV Power Lines Reconfiguration	Construction Year 2026	0.00
	Construction Year 2027	24.65
	Construction Year 2028	32.90
	Construction Year 2029	0.00
Sub Total PGE Construction	Construction Year 2026	1,255.63
	Construction Year 2027	1,918.33
	Construction Year 2028	341.75
	Construction Year 2029	3.82
LEU Construction	Construction Year 2026	0.00
	Construction Year 2027	471.55
	Construction Year 2028	31.00
	Construction Year 2029	0.00
Total PG&E and LEU Construction	Construction Year 2026	1,255.63
	Construction Year 2027	2,389.88
	Construction Year 2028	372.75
	Construction Year 2029	3.82
Total Construction		4,022.07

Note:

Emissions from LEU Construction were obtained from the City of Lodi 2022

Table 3
Project Emissions Summary - GHG
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Operation and Maintenance Emissions (2030 and beyond)

Location	Activity	Annual Emissions (metric ton/year) CO2e
PG&E Operation	Operation and Maintenance Emissions	11.97
	SF6 Leakage	80.17
LEU Operation	Operation and Maintenance Emissions	455.63
	SF6 Leakage	28.86
Total		**576.64**

Note:
Emissions from LEU Construction were obtained from the Air Quality and Greenhouse Gas Emissions Technical Analysis (City of Lodi Electric Utility 2022). SF6 Leakage was recalculated with updated data from Burns & McDonnell in Table 13.

Total GHG Emissions

	Annual Emissions (metric ton/year)
PG&E Construction (Amortized)	117.32
PG&E Operation	92.15
LEU Construction (Amortized)	16.75
LEU Operation	484.49
Total GHG Emissions	**710.71**

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2026						2027											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
PG&E 230 kV Transmission Lines																		
General Construction NTP by CPUC																		
Mobilization																		
Survey (Construction Staking)																		
Soil Borings																		
ROW Clearing																		
Roads and Access																		
Guard Structures (in parallel with Roads improvements)																		
Foundations (East to West)																		
Structure Assembly / Erection																		
Conductor Installation / Clipping / OPGW installation																		
Restoration and Removal of Guard Structures																		
Truck Drivers (material haul)																		
Inspectors (Civil, Foundation and Electrical)																		
PG&E Lockeford Substation																		
General Construction NTP by CPUC																		
(Phase 1) 20 days Civil Site Preparation + (Phase 1a) 20 day for Exterior fencing, paving, final grade surface																		
(Phase 1b) Foundations, Excavation, and Installation																		
(Phase 2) Equipment Installation (New Bays first, then existing Bays)																		
(Phase 3) Dress/Test/Wire Equipment (New Bays then Existing Bays)																		
(Phase 3) Transmission Line re-arrangement inside the substation																		
(Phase 3) Cleaning and Restoration / Landscaping																		
New 230 kV Lines In-Service Date																		
(Phase 4A) Foundation (tower & Xfrmr) work (Rio Oso-Lockeford 230 kV)																		
(Phase 4B) Foundation work (Lockeford-Bellota #1 230 kV)																		
(Phase 4C) Re-energize Lockeford & Foundation curing (no crews)																		
(Phase 4D) 230kV Bus #1 Reconfiguration (Rio Oso-Lockeford)																		
(Phase 4E & 4F) 230kV Bus #1 Reconfiguration (Lockeford-Bellota #1)																		
(Phase 5A) 230kV Bus #2 Reconfiguration / Installation / Demo																		
(Phase 5B) Bus Reconfiguration																		
(Phase 5C) Energize & Complete Lockeford Work																		
Cleaning and Landscaping																		
Truck Drivers																		
Inspectors																		
PG&E 12 kV Service Line Extension to PG&E Thurman Switching Station																		
General Construction: Average commute from Hotels to job site.																		
Mobilization: Thurman Yard or Staging Area																		
PG&E Remote End Substations																		
System Construction for New 230 kV Lines at Brighton and Rio Oso																		
System Construction for New 230 kV Lines at Bellota																		
General Construction for Existing 230 kV Lines																		
Communication Modification at Clayton Hill Repeater Station																		

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2028												2029			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
PG&E 230 kV Transmission Lines																
General Construction NTP by CPUC																
Mobilization																
Survey (Construction Staking)																
Soil Borings																
ROW Clearing																
Roads and Access																
Guard Structures (in parallel with Roads improvements)																
Foundations (East to West)																
Structure Assembly / Erection																
Conductor Installation / Clipping / OPGW installation																
Restoration and Removal of Guard Structures																
Truck Drivers (material haul)																
Inspectors (Civil, Foundation and Electrical)																
PG&E Lockeford Substation																
General Construction NTP by CPUC																
(Phase 1) 20 days Civil Site Preparation + (Phase 1a) 20 day for Exterior fencing, paving, final grade surface																
(Phase 1b) Foundations, Excavation, and Installation																
(Phase 2) Equipment Installation (New Bays first, then existing Bays)																
(Phase 3) Dress/Test/Wire Equipment (New Bays then Existing Bays)																
(Phase 3) Transmission Line re-arrangement inside the substation																
(Phase 3) Cleaning and Restoration / Landscaping																
New 230 kV Lines In-Service Date																
(Phase 4A) Foundation (tower & Xfrmr) work (Rio Oso-Lockeford 230 kV)																
(Phase 4B) Foundation work (Lockeford-Bellota #1 230 kV)																
(Phase 4C) Re-energize Lockeford & Foundation curing (no crews)																
(Phase 4D) 230kV Bus #1 Reconfiguration (Rio Oso-Lockeford)																
(Phase 4E & 4F) 230kV Bus #1 Reconfiguration (Lockeford-Bellota #1)																
(Phase 5A) 230kV Bus #2 Reconfiguration / Installation / Demo																
(Phase 5B) Bus Reconfiguration																
(Phase 5C) Energize & Complete Lockeford Work																
Cleaning and Landscaping																
Truck Drivers																
Inspectors																
PG&E 12 kV Service Line Extension to PG&E Thurman Switching Station																
General Construction: Average commute from Hotels to job site.																
Mobilization: Thurman Yard or Staging Area																
PG&E Remote End Substations																
System Construction for New 230 kV Lines at Brighton and Rio Oso																
System Construction for New 230 kV Lines at Bellota																
General Construction for Existing 230 kV Lines																
Communication Modification at Clayton Hill Repeater Station																

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2026						2027											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
PG&E 230 kV Transmission Lines																		
PG&E Thurman Switching Station																		
General Construction NTP by CPUC																		
Civil Site Preparation																		
Structure Foundations, Excavation, and Installation																		
Equipment Foundations																		
Structure Delivery and Setup																		
Equipment Installation																		
Dress/Test/Wire Equipment																		
Exterior Walls, Final Grading, and Paving																		
Cleaning and Landscaping																		
Truck Drivers																		
Inspectors																		
PG&E Microwave Tower within Thurman Switching Station																		
General Construction																		
Tower Foundation Installation																		
Structure Delivery and Set Up																		
Tower Installation																		
Communication Equipment Installation & Testing																		
Cleaning and Landscaping																		
Truck Drivers																		
Inspectors																		
LEU Construction																		
Survey																		
Access Roads																		
Site Preparation																		
Underground 12 kV Line Installation																		
Fence and Gate Installation																		
Foundation																		
Ground/Grid Circuit Installation																		
Transformer Installation																		
Steel/Bus Erection																		
Yard Rock Installation																		
Cleaning and Restoration 1																		
Remaining Deliveries, Installations, Testing and Commissioning 1																		
Cleaning and Restoration 2																		
Remaining Deliveries, Installations, Testing and Commissioning 2																		

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2028												2029			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
PG&E 230 kV Transmission Lines																
PG&E Thurman Switching Station																
General Construction NTP by CPUC																
Civil Site Preparation																
Structure Foundations, Excavation, and Installation																
Equipment Foundations																
Structure Delivery and Setup																
Equipment Installation																
Dress/Test/Wire Equipment																
Exterior Walls, Final Grading, and Paving																
Cleaning and Landscaping																
Truck Drivers																
Inspectors																
PG&E Microwave Tower within Thurman Switching Station																
General Construction																
Tower Foundation Installation																
Structure Delivery and Set Up																
Tower Installation																
Communication Equipment Installation & Testing																
Cleaning and Landscaping																
Truck Drivers																
Inspectors																
LEU Construction																
Survey																
Access Roads																
Site Preparation																
Underground 12 kV Line Installation																
Fence and Gate Installation																
Foundation																
Ground/Grid Circuit Installation																
Transformer Installation																
Steel/Bus Erection																
Yard Rock Installation																
Cleaning and Restoration 1																
Remaining Deliveries, Installations, Testing and Commissioning 1																
Cleaning and Restoration 2																
Remaining Deliveries, Installations, Testing and Commissioning 2																

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2026						2027											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
PG&E 230 kV Transmission Lines																		
PG&E 60 kV Lines Reconfiguration																		
Typical Outage Windows																		
General																		
Lockeford-Industrial Western End Removal and Restoration																		
Industrial Tap and **Lodi-Industrial** Reconfiguration / Restoration																		
Remote end - Terminal testing																		
Inspectors																		

[a] This schedule depicts the periods during which construction activities could occur. It is expected that construction activities will actually occur intermittently within the identified periods. The final project construction schedule can only be determined once the Commission's staff issue a full Notice to Proceed, all environmental protection measures and any other environmental mitigation measures have been taken into account, materials needed for construction have been delivered and are ready for installation, and PG&E's contractors and LEU's contractors have mobilized and are ready to initiate construction.

Table 4

Preliminary Construction Schedule [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Typical Outage Windows

Construction Phase	2028												2029			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
PG&E 230 kV Transmission Lines																
PG&E 60 kV Lines Reconfiguration																
Typical Outage Windows																
General																
Lockeford-Industrial Western End Removal and Restoration																
Industrial Tap and **Lodi-Industrial** Reconfiguration / Restoration																
Remote end - Terminal testing																
Inspectors																

[a] This schedule depicts the periods during which construction activities could occur
construction schedule can only be determined once the Commission's staff issue a
into account, materials needed for construction have been delivered and are ready

Table 5

PG&E 230 kV Transmission Lines Construction Emissions [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Daily Equipment Quantity/Vehicle Trips	Number of Days Used	Hours per Day	Miles per day/ vehicles [b]	Number of Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10} [d]	$PM_{2.5}$ [d]	CO_2
General Construction																		
street sweeper	Heavy-duty Diesel	NA	NA	1	300	NA	50	6	8	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Jet A Fuel Truck	Heavy-duty Diesel	NA	NA	1	50	NA	50	6	8	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Mobilization: Thurman/Lodi yard and Lockeford yards.																		
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	2	10	NA	60	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Water Truck	Heavy-duty Diesel	NA	NA	2	10	NA	60	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Backhoe/Front Loader	Tractors/Loaders/Backhoe	97	0.37	2	10	8	NA	1	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Road Grader	Graders	187	0.41	1	10	8	NA	1	0	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Drum Type Compactor	Plate Compactors	8	0.43	1	10	8	NA	1	0	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
10k LB Forklift	Forklifts	89	0.2	2	150	5	NA	6	8	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
30 Ton Crane	Cranes	231	0.29	2	150	5	NA	6	8	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	10	NA	15	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	NA	NA	1	300	NA	15	6	8	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	10	NA	2	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	300	NA	25	6	8	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Survey (Construction Staking) 72 locations (3 person crew) x 2 PreConstruction 1 month.																		
Pick-up Truck	Light-duty Truck	NA	NA	2	24	NA	25	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	24	NA	25	1	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Soil Borings: 30 locations (3 person crew) - PreConstruction 1 month.		NA	NA															
Pick-up Truck	Light-duty Truck	NA	NA	1	24	NA	25	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Drill Rig	Bore/Drill Rigs	221	0.5	1	24	8	NA	1	0	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Worker Commutes	Light-duty Auto/Truck	NA	NA	3	24	NA	25	1	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
ROW Clearing: (rock construction entrances - shaker plates, vegetation, tree trimming. SWPPP.																		
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	45	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Backhoe/Front Loader	Tractors/Loaders/Backhoe	97	0.37	1	15	8	NA	1	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Road Grader	Graders	187	0.41	1	15	5	NA	1	0	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Boom truck	Cranes	231	0.29	1	15	5	NA	1	0	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	30	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	15	NA	30	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	15	NA	25	1	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Roads and Access: Construction Areas, Pulling Sites, Light Road Improvements for 3 of 12 miles																		
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	45	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Water Truck	Heavy-duty Diesel	NA	NA	1	300	NA	60	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Backhoe/Front Loader	Tractors/Loaders/Backhoe	97	0.37	1	15	8	NA	1	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Road Grader	Graders	187	0.41	1	15	5	NA	1	0	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Drum Type Compactor	Plate Compactors	8	0.43	1	15	5	NA	1	0	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	30	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	15	NA	30	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	15	NA	25	1	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Guard Structures 15 (Double side wood pole H frames)																		
Auger Truck	Bore/Drill Rigs	221	0.5	1	25	8	NA	1	1	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Backhoe/Front Loader	Tractors/Loaders/Backhoe	97	0.37	1	25	8	NA	1	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
boom truck	Cranes	231	0.29	1	25	8	NA	1	1	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
bucket truck	Heavy-duty Diesel	NA	NA	1	25	NA	1	1	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	25	NA	20	1	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	25	NA	15	1	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	25	NA	25	1	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Foundations: Tangents 49 (Hole Digging, Foundation Setup/Cage, Pour Concrete, Finish/Removal of set up) - assumes parallel crews																		
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	2	60	NA	50	3	4	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Backhoe - Front Loader	Tractors/Loaders/Backhoe	97	0.37	2	60	5	NA	3	4	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Drill Rig/Auger Truck	Bore/Drill Rigs	221	0.5	2	60	5	NA	3	4	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Truck Cranes - 20 - 30 Ton	Cranes	231	0.29	2	60	5	NA	3	4	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	60	NA	25	3	4	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	60	NA	25	3	4	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	NA	NA	2	60	NA	25	3	4	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	60	NA	25	3	4	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Worker Commutes	Light-duty Auto/Truck	NA	NA	7	60	NA	25	3	4	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 5

PG&E 230 kV Transmission Lines Construction Emissions [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase) [c]						Emissions (metric tons/phase) [c]	DPM Emission Factors, (g/hp/hr) for equipment,	Onsite DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction																	
street sweeper	Heavy-duty Diesel	0.447	2.024	52.138	0.476	185.331	21.580	23.856	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Jet A Fuel Truck	Heavy-duty Diesel	0.075	0.337	8.690	0.079	30.889	3.597	3.976	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Mobilization: Thurman/Lodi yard and Lockeford yards.																	
10-Cu Dump Truck	Heavy-duty Diesel	0.036	0.162	4.171	0.038	14.827	1.726	1.909	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Water Truck	Heavy-duty Diesel	0.036	0.162	4.171	0.038	14.827	1.726	1.909	0.029	0.076	2	0.004	0.016	0.417	0.004	1.483	0.173
Backhoe/Front Loader	Tractors/Loaders/Backhoe	2.805	45.055	25.473	0.066	0.937	0.876	2.863	0.074	0.937	2	0.281	4.505	2.547	0.007	0.094	0.088
Road Grader	Graders	3.072	15.857	29.503	0.070	0.952	0.887	3.040	0.070	0.952	2	0.307	1.586	2.950	0.007	0.095	0.089
Drum Type Compactor	Plate Compactors	0.401	2.105	2.513	0.005	0.098	0.098	0.157	0.161	0.098	2	0.040	0.210	0.251	0.000	0.010	0.010
10k LB Forklift	Forklifts	16.376	214.783	141.085	0.306	6.840	6.275	13.192	0.116	6.840	2	0.109	1.432	0.941	0.002	0.046	0.042
30 Ton Crane	Cranes	48.470	373.253	412.660	1.108	16.615	15.374	49.679	0.075	16.615	2	0.323	2.488	2.751	0.007	0.111	0.102
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.019	0.702	0.137	0.003	3.635	0.058	0.132	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	0.285	10.530	2.059	0.043	54.528	0.877	1.982	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer	Heavy-duty Diesel	0.001	0.003	0.070	0.001	0.247	0.029	0.032	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	1.742	98.825	11.360	0.388	42.481	10.949	17.977	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Survey (Construction Staking) 72 locations (3 person crew) x 2 PreCo																	
Pick-up Truck	Light-duty Truck	0.076	2.808	0.549	0.011	14.541	0.234	0.529	0.004	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.105	5.929	0.682	0.023	2.549	0.657	1.079	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Soil Borings: 30 locations (3 person crew) - PreConstruction 1 month.																	
Pick-up Truck	Light-duty Truck	0.038	1.404	0.275	0.006	7.270	0.117	0.264	0.004	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Drill Rig	Bore/Drill Rigs	5.192	48.778	38.379	0.243	1.254	1.179	10.465	0.027	1.254	4	0.216	2.032	1.599	0.010	0.052	0.049
Worker Commutes	Light-duty Auto/Truck	0.052	2.965	0.341	0.012	1.274	0.328	0.539	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
ROW Clearing: (rock construction entrances - shaker plates, vegetatior																	
10-Cu Dump Truck	Heavy-duty Diesel	0.020	0.091	2.346	0.021	8.340	0.971	1.074	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Backhoe/Front Loader	Tractors/Loaders/Backhoe	2.104	33.791	19.105	0.049	0.703	0.657	2.147	0.074	0.703	5	0.140	2.253	1.274	0.003	0.047	0.044
Road Grader	Graders	2.880	14.866	27.659	0.066	0.892	0.832	2.850	0.070	0.892	5	0.192	0.991	1.844	0.004	0.059	0.055
Boom truck	Cranes	2.424	18.663	20.633	0.055	0.831	0.769	2.484	0.075	0.831	5	0.162	1.244	1.376	0.004	0.055	0.051
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.057	2.106	0.412	0.009	10.906	0.175	0.396	0.004	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer	Heavy-duty Diesel	0.013	0.061	1.564	0.014	5.560	0.647	0.716	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.065	3.706	0.426	0.015	1.593	0.411	0.674	0.002	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Roads and Access: Construction Areas, Pulling Sites, Light Road Impro																	
10-Cu Dump Truck	Heavy-duty Diesel	0.020	0.091	2.346	0.021	8.340	0.971	1.074	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Water Truck	Heavy-duty Diesel	0.536	2.429	62.566	0.571	222.398	25.896	28.628	0.029	1.136	6	0.002	0.008	0.209	0.002	0.741	0.086
Backhoe/Front Loader	Tractors/Loaders/Backhoe	2.104	33.791	19.105	0.049	0.703	0.657	2.147	0.074	0.703	6	0.140	2.253	1.274	0.003	0.047	0.044
Road Grader	Graders	2.880	14.866	27.659	0.066	0.892	0.832	2.850	0.070	0.892	6	0.192	0.991	1.844	0.004	0.059	0.055
Drum Type Compactor	Plate Compactors	0.376	1.973	2.356	0.005	0.092	0.092	0.147	0.161	0.092	6	0.025	0.132	0.157	0.000	0.006	0.006
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.057	2.106	0.412	0.009	10.906	0.175	0.396	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer	Heavy-duty Diesel	0.013	0.061	1.564	0.014	5.560	0.647	0.716	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.065	3.706	0.426	0.015	1.593	0.411	0.674	0.002	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Guard Structures 15 (Double side wood pole H frames)																	
Auger Truck	Bore/Drill Rigs	5.408	50.810	39.978	0.253	1.306	1.228	10.901	0.027	1.306	7	0.216	2.032	1.599	0.010	0.052	0.049
Backhoe/Front Loader	Tractors/Loaders/Backhoe	3.507	56.318	31.841	0.082	1.171	1.095	3.579	0.074	1.171	7	0.140	2.253	1.274	0.003	0.047	0.044
boom truck	Cranes	6.463	49.767	55.021	0.148	2.215	2.050	6.624	0.075	2.215	7	0.259	1.991	2.201	0.006	0.089	0.082
bucket truck	Heavy-duty Diesel	0.001	0.003	0.087	0.001	0.309	0.036	0.040	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	0.011	0.051	1.303	0.012	4.633	0.540	0.596	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.091	5.147	0.592	0.020	2.213	0.570	0.936	0.002	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Foundations: Tangents 49 (Hole Digging, Foundation Setup/Cage, Pou																	
10-Cu Dump Truck	Heavy-duty Diesel	0.179	0.810	20.855	0.190	74.133	8.632	9.543	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Backhoe - Front Loader	Tractors/Loaders/Backhoe	10.520	168.955	95.524	0.247	3.513	3.285	10.737	0.074	3.513	8	0.175	2.816	1.592	0.004	0.059	0.055
Drill Rig/Auger Truck	Bore/Drill Rigs	16.224	152.430	119.933	0.760	3.917	3.683	32.704	0.027	3.917	8	0.270	2.541	1.999	0.013	0.065	0.061
Truck Cranes - 20 - 30 Ton	Cranes	19.388	149.301	165.064	0.443	6.646	6.150	19.872	0.075	6.646	8	0.323	2.488	2.751	0.007	0.111	0.102
Truck - 40 'flat trailer	Heavy-duty Diesel	0.089	0.405	10.428	0.095	37.066	4.316	4.771	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	0.089	0.405	10.428	0.095	37.066	4.316	4.771	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.305	17.294	1.988	0.068	7.434	1.916	3.146	0.002	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000

Table 5

PG&E 230 kV Transmission Lines Construction Emissions [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Daily Equipment Quantity/Vehicle Trips	Number of Days Used	Hours per Day	Miles per day/ vehicles [b]	Number of Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10} [d]	$PM_{2.5}$ [d]	CO_2
Foundations: Dead Ends 24 (Hole Digging, Foundation Setup/Cage, Pour Concrete, Finish/Removal of set up) assumes parallel crews																		
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	75	3	4	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Backhoe - Front Loader	Tractors/Loaders/Backhoe	97	0.37	2	40	5	NA	3	4	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Drill Rig/Auger Truck	Bore/Drill Rigs	221	0.5	2	40	5	NA	3	4	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Truck Cranes - 20 - 30 Ton	Cranes	231	0.29	2	40	5	NA	3	4	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Truck - Framer (Crew Pick Up)	Light-duty Truck	NA	NA	2	40	NA	25	3	4	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	40	NA	25	3	4	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	NA	NA	2	40	NA	75	3	4	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	40	NA	25	3	4	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	40	NA	25	3	4	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Structure Assembly / Erection: Steel Pole Hauling, Assembly, Erection Tangents 49																		
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	50	NA	25	1	6	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	50	NA	25	1	6	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Compressor Trailer	air compressors	78	0.48	2	50	5	NA	1	6	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
All Terrain Crane - 180 Ton	Cranes	231	0.29	2	50	5	NA	1	6	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	50	NA	25	1	6	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	7	50	NA	25	1	6	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Structure Assembly / Erection: Steel Pole Hauling, Assembly & Erection Dead-Ends 24																		
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	50	NA	25	1	6	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	50	NA	25	1	6	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Compressor Trailer	air compressors	78	0.48	2	50	5	NA	1	6	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
All Terrain Crane - 180 Ton	Cranes	231	0.29	2	50	5	NA	1	6	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	50	NA	25	1	6	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	50	NA	25	1	6	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Conductor (1113 AAC) Installation + OPGW, pull and sag and tension (per Pull) Assume 12 miles of Circuit feet)																		
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	3	100	NA	25	0	7	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
reel trailer	Heavy-duty Diesel	NA	NA	2	100	NA	25	0	7	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
1 Ton Crew Cab Flat Bed	Light-duty Truck	NA	NA	3	100	NA	25	0	7	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
30 Ton Manitex	Cranes	231	0.29	4	100	5	NA	0	7	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
22 Ton Manitex	Cranes	231	0.29	1	100	5	NA	0	7	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
20,000 lbs, Fork Lift	Forklifts	89	0.2	2	100	5	NA	0	7	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
580 Case Backhoe	Tractors/Loaders/Backhoe	97	0.37	2	100	5	NA	0	7	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
sock line puller	Other Construction Equipm	172	0.42	2	100	5	NA	0	7	0	0	0.220	3.135	1.826	0.005	0.093	0.086	492.644
4 Drum rope Puller	Other Construction Equipm	172	0.42	1	100	5	NA	0	7	0	0	0.220	3.135	1.826	0.005	0.093	0.086	492.644
60,000 lbs Puller	Other Construction Equipm	172	0.42	2	100	5	NA	0	7	0	0	0.220	3.135	1.826	0.005	0.093	0.086	492.644
Sag Cat Winch	Other Construction Equipm	172	0.42	1	100	5	NA	0	7	0	0	0.220	3.135	1.826	0.005	0.093	0.086	492.644
D8 Cat	Tractors/Loaders/Backhoe	97	0.37	1	100	5	NA	0	7	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Hughes 500 Helicopter	Helicopter	Heli	NA	1	50	5	NA	0	7	0	0	4.010	5.330	1.950	0.290	0.060	0.060	424.200
Fuel Helicopter Support	Heavy-duty Diesel	NA	NA	1	100	NA	50	0	7	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Low boy Truck and Trailer	Heavy-duty Diesel	NA	NA	1	100	NA	25	0	7	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	18	100	NA	25	0	7	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Restoration: 6 of 12 miles of dirt road (Crew size of 4)											0							
Light-duty Truck	Light-duty Truck	NA	NA	2	15	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Road Grader	Graders	187	0.41	1	15	6	NA	0	2	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Backhoe and Trailer	Tractors/Loaders/Backhoe	97	0.37	1	15	6	NA	0	2	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Other																		
Material Haul Trucks (10 trucks, used first 60	Light-duty Truck	NA	NA	10	60	NA	75	3	12	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Inspector Vehicles (Civil, Structural, Wire)	Light-duty Truck	NA	NA	3	150	NA	75	3	12	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471

Table 5

PG&E 230 kV Transmission Lines Construction Emissions [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase) [c]						Emissions (metric tons/phase) [c]	DPM Emission Factors, (g/hp/hr) for equipment,	Onsite DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
Foundations: Dead Ends 24 (Hole Digging,	**Foundation Setup/Cage, P**																
10-Cu Dump Truck	Heavy-duty Diesel	0.089	0.405	10.428	0.095	37.066	4.316	4.771	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Backhoe - Front Loader	Tractors/Loaders/Backhoe	7.013	112.637	63.682	0.165	2.342	2.190	7.158	0.074	2.342	8	0.175	2.816	1.592	0.004	0.059	0.055
Drill Rig/Auger Truck	Bore/Drill Rigs	10.816	101.620	79.955	0.507	2.611	2.456	21.803	0.027	2.611	8	0.270	2.541	1.999	0.013	0.065	0.061
Truck Cranes - 20 - 30 Ton	Cranes	12.925	99.534	110.043	0.295	4.431	4.100	13.248	0.075	4.431	8	0.323	2.488	2.751	0.007	0.111	0.102
Truck - Framer (Crew Pick Up)	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	0.179	0.810	20.855	0.190	74.133	8.632	9.543	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.174	9.882	1.136	0.039	4.248	1.095	1.798	0.002	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Structure Assembly / Erection: Steel Pole	**Hauling, Assembly, Erection**																
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.158	5.850	1.144	0.024	30.293	0.487	1.101	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	0.158	5.850	1.144	0.024	30.293	0.487	1.101	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Compressor Trailer	air compressors	13.570	150.569	90.637	0.248	3.772	3.772	10.652	0.091	3.772	9	0.271	3.011	1.813	0.005	0.075	0.075
All Terrain Crane - 180 Ton	Cranes	16.157	124.418	137.553	0.369	5.538	5.125	16.560	0.075	5.538	9	0.323	2.488	2.751	0.007	0.111	0.102
Truck - 40 'flat trailer	Heavy-duty Diesel	0.075	0.337	8.690	0.079	30.889	3.597	3.976	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.254	14.412	1.657	0.057	6.195	1.597	2.622	0.002	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Structure Assembly / Erection: Steel Pole	**Hauling, Assembly & Erectio**																
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.158	5.850	1.144	0.024	30.293	0.487	1.101	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	0.158	5.850	1.144	0.024	30.293	0.487	1.101	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Compressor Trailer	air compressors	13.570	150.569	90.637	0.248	3.772	3.772	10.652	0.091	3.772	9	0.271	3.011	1.813	0.005	0.075	0.075
All Terrain Crane - 180 Ton	Cranes	16.157	124.418	137.553	0.369	5.538	5.125	16.560	0.075	5.538	9	0.323	2.488	2.751	0.007	0.111	0.102
Truck - 40 'flat trailer	Heavy-duty Diesel	0.075	0.337	8.690	0.079	30.889	3.597	3.976	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.290	16.471	1.893	0.065	7.080	1.825	2.996	0.002	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Conductor (1113 AAC) Installation + OPGW,	**pull and sag and tension (**																
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	0.475	17.550	3.432	0.071	90.880	1.461	3.304	0.004	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
reel trailer	Heavy-duty Diesel	0.149	0.675	17.379	0.159	61.777	7.193	7.952	0.029	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
1 Ton Crew Cab Flat Bed	Light-duty Truck	0.475	17.550	3.432	0.071	90.880	1.461	3.304	0.004	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
30 Ton Manitex	Cranes	64.627	497.671	550.214	1.477	22.153	20.499	66.239	0.075	22.153	10	0.646	4.977	5.502	0.015	0.222	0.205
22 Ton Manitex	Cranes	16.157	124.418	137.553	0.369	5.538	5.125	16.560	0.075	5.538	10	0.162	1.244	1.376	0.004	0.055	0.051
20,000 lbs, Fork Lift	Forklifts	10.917	143.189	94.057	0.204	4.560	4.183	8.794	0.116	4.560	10	0.109	1.432	0.941	0.002	0.046	0.042
580 Case Backhoe	Tractors/Loaders/Backhoe	17.534	281.592	159.206	0.411	5.855	5.475	17.895	0.074	5.855	10	0.175	2.816	1.592	0.004	0.059	0.055
sock line puller	Other Construction Equipm	35.069	499.210	290.765	0.828	14.875	13.728	35.589	0.093	14.875	10	0.351	4.992	2.908	0.008	0.149	0.137
4 Drum rope Puller	Other Construction Equipm	17.534	249.605	145.383	0.414	7.437	6.864	17.794	0.093	7.437	10	0.175	2.496	1.454	0.004	0.074	0.069
60,000 lbs Puller	Other Construction Equipm	35.069	499.210	290.765	0.828	14.875	13.728	35.589	0.093	14.875	10	0.351	4.992	2.908	0.008	0.149	0.137
Sag Cat Winch	Other Construction Equipm	17.534	249.605	145.383	0.414	7.437	6.864	17.794	0.093	7.437	10	0.175	2.496	1.454	0.004	0.074	0.069
D8 Cat	Tractors/Loaders/Backhoe	8.767	140.796	79.603	0.206	2.928	2.738	8.948	0.074	2.928	10	0.088	1.408	0.796	0.002	0.029	0.027
Hughes 500 Helicopter	Helicopter	1002.500	1332.500	487.500	72.500	15.000	15.000	48.104	NA	NA	10	20.050	26.650	9.750	1.450	0.300	0.300
Fuel Helicopter Support	Heavy-duty Diesel	0.149	0.675	17.379	0.159	61.777	7.193	7.952	0.029	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
Low boy Truck and Trailer	Heavy-duty Diesel	0.075	0.337	8.690	0.079	30.889	3.597	3.976	0.029	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	1.307	74.119	8.520	0.291	31.861	8.212	13.483	0.002	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
Restoration: 6 of 12 miles of dirt road (Crew size of 4)																	
Light-duty Truck	Light-duty Truck	0.048	1.755	0.343	0.007	9.088	0.146	0.330	0.004	0.000	11	0.000	0.000	0.000	0.000	0.000	0.000
Road Grader	Graders	3.456	17.840	33.191	0.079	1.071	0.998	3.420	0.070	1.071	11	0.230	1.189	2.213	0.005	0.071	0.067
Backhoe and Trailer	Tractors/Loaders/Backhoe	1.578	25.343	14.329	0.037	0.527	0.493	1.611	0.074	0.527	11	0.105	1.690	0.955	0.002	0.035	0.033
Other																	
Material Haul Trucks (10 trucks, used first 60	Light-duty Truck	2.852	105.298	20.592	0.426	545.282	8.769	19.821	0.004	0.000	12	0.000	0.000	0.000	0.000	0.000	0.000
Inspector Vehicles (Civil, Structural, Wire)	Light-duty Truck	2.139	78.973	15.444	0.320	408.961	6.577	14.866	0.004	0.000	13	0.000	0.000	0.000	0.000	0.000	0.000

Table 5

PG&E 230 kV Transmission Lines Construction Emissions [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Overlapping Emissions	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2026						
Activities 1,2,3,4	1.280	12.271	11.457	0.037	1.890	0.552
Activities 1,2,5,6,7	2.532	24.385	22.908	0.068	3.041	1.020
Activities 1,2,8,9,12,13	3.791	36.927	31.669	0.100	2.679	1.296
2027						
Activities 1,2,8,9,12,13	3.791	36.927	31.669	0.100	2.679	1.296
Activities 1,2, 9,10,12,13	24.535	74.741	47.665	1.554	3.367	1.951
Activities 1,2,11,12,13	1.399	13.117	13.026	0.035	1.944	0.602
Activities 7,8,9,10,12,13	25.624	86.468	55.565	1.594	2.186	2.060
Activities 8,9,10,11,12,13	25.344	83.071	53.659	1.582	2.105	1.985
2028						
Activities 12,13	0.000	0.000	0.000	0.000	0.000	0.000
Worst-Case Daily						
2026	3.791	36.927	31.669	0.100	3.041	1.296
2027	25.624	86.468	55.565	1.594	3.367	2.060
2028	0.000	0.000	0.000	0.000	0.000	0.000
2029	0	0	0	0	0	0

Notes:

NA = Parameter not required for computing emissions.

[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

[b] Helicopter operation assumes 1 LTO/hr, medium lift helicopters

[c] The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipment =	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

[d] PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions

Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	olume (yd	Veight (ton	Emission Factors (lb/ton		Emissions (lb/phase	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/Unloaded	2026	5,605	7,086	0.000041	#######	0.3	0.0
Soil Loaded/Unloaded	2027	0	0	0.000041	#######	0.0	0.0
Soil Loaded/Unloaded	2028	0	0	0.000041	#######	0.0	0.0
Soil Loaded/Unloaded	2029	0	0	0.000041	#######	0.0	0.0

Note:

Material density (CalEEMod default) 1.264 ton/CY

Total amount of soil loaded/unloaded (cy): 5,605

Fugitive Dust emissions from Grading

Activity	Year	Area (acre	Grader VMT	Emission Factors		Emissions (lb/phase	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	22.5	15.47	1.543	0.167	23.9	2.6
Grading	2027	0	0.00	0.000	0.000	0.0	0.0
Grading	2028	0	0.00	0.000	0.000	0.0	0.0
Grading	2029	0	0.00	0.000	0.000	0.0	0.0

Note:

VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)

VMT: vehicle miles traveled

As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)

Wb: blade width of the grader. CalEEMod default Wb = 12 ft.

Total acres to be graded (acres): 22.5

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric tons/year)	Onsite DPM (lb/year)
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2	
2026	0.053	0.561	0.505	0.002	0.460	0.052	209.643	33.676
2027	0.690	2.897	1.880	0.042	0.918	0.116	566.731	132.371
2028	0.000	0.006	0.001	0.000	0.030	0.000	2.168	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 6
PG&E Lockeford Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per day/vehicle	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
General Construction: General construction schedule for Lockeford is now at 24-36 months. The project will be constructed in various phases. Phases 1 -5																		
Water Truck	Heavy-duty Diesel	NA	NA	1	450	NA	50	5	12	7	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Street Sweeper	Heavy-duty Diesel	NA	NA	1	450	NA	50	5	12	7	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Phase 1: Civil Site Preparation (10 people for 4 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	2	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	2	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	20	8	NA	2	0	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	2	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	2	0	0	0	0.365	1.641	3.410	0.005	0.147	0.136	496.529
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	2	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	2	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor / Roller	Rollers	80	0.38	4	20	4	NA	2	0	0	0	0.264	3.483	2.543	0.005	0.121	0.113	495.936
Air Compressor	air compressors	78	0.48	2	20	4	NA	2	0	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	2	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	2	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Phase 1a: Exterior Fence, Final Grading, and Paving (10 people for 4 weeks, and work schedule 5-10)																		
Concrete Truck	heavy-duty diesel	NA	NA	80	20	NA	90	2	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	2	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	2	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	20	8	NA	2	0	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	2	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	2	0	0	0	0.365	1.641	3.410	0.005	0.147	0.136	496.529
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	2	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	2	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor / Roller	Rollers	80	0.38	4	20	4	NA	2	0	0	0	0.264	3.483	2.543	0.005	0.121	0.113	495.936
Air Compressor	air compressors	78	0.48	2	20	4	NA	2	0	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	2	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Grader	Graders	187	0.41	2	20	8	NA	2	0	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	2	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Phase 1b: All Foundations, Excavation, and Installation for new control enclosure, 2 bay BAAH, 10 people for 8 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	3	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	3	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	40	8	NA	3	0	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
22 Ton Crane	Cranes	231	0.29	1	40	8	NA	3	0	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Concrete Truck	heavy-duty diesel	NA	NA	80	40	NA	90	3	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	40	8	NA	3	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	3	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor	plate compactors	8	0.43	2	40	4	NA	3	0	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
Air Compressor	air compressors	78	0.48	2	40	4	NA	3	0	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	1	40	4	NA	3	0	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	40	8	NA	3	0	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	3	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	3	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Structure Delivery and Setup (disconnect switches, H-frame deadend structure, station service, single phase CCVT, high bus, and bay low bus)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	12	4	NA	150	3	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Phase 2: Equipment Installation (10 people for 30 weeks, and work schedule 5-10). Greenfield construction next to existing 230kV substation equipment																		
Pick-up Truck	Light-duty Truck	NA	NA	3	150	NA	25	1	3	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	150	NA	25	1	3	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	150	8	NA	1	3	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
30 Ton Crane	Cranes	231	0.29	1	150	4	NA	1	3	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	150	4	NA	1	3	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
80' Aerial Lifts	Aerial lifts	63	0.31	2	150	4	NA	1	3	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
40' Aerial Lifts	Aerial lifts	63	0.31	2	150	4	NA	1	3	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	150	NA	90	1	3	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor	plate compactors	8	0.43	2	150	4	NA	1	3	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
Air Compressor	air compressors	78	0.48	2	150	4	NA	1	3	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	2	150	4	NA	1	3	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	1	3	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	150	NA	25	1	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 6
PG&E Lockeford Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per day/vehicle	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
Phase 3: Dress/Test/Wire Equipment (10 people for 8 weeks, and work schedule 5-10).																		
Rigging Truck	Heavy-duty Diesel	NA	NA	2	40	NA	25	0	7	1	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Forklift	Forklifts	89	0.2	2	40	8	NA	0	7	1	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Manlift	Aerial lifts	63	0.31	2	40	8	NA	0	7	1	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	2	40	8	NA	0	7	1	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	0	7	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	0	7	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	40	8	NA	0	7	1	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	7	1	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	0	7	1	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	2	40	4	NA	0	7	1	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	0	7	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Phase 4A-4C: Rebuild existing Substation. Install foundations for bay reconfiguation and RO1 TSP foundation.																	#N/A	
Rigging Truck	Heavy-duty Diesel	NA	NA	2	21	NA	25	0	0	2	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Forklift	Forklifts	89	0.2	2	21	8	NA	0	0	2	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Manlift	Aerial lifts	63	0.31	2	21	8	NA	0	0	2	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	2	21	8	NA	0	0	2	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	21	NA	25	0	0	2	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	21	NA	25	0	0	2	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	21	8	--	0	0	2	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	0	2	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Dump Truck	Heavy-duty Diesel	NA	NA	1	21	NA	90	0	0	2	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	2	21	4	NA	0	0	2	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	21	NA	25	0	0	2	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Phase 4D - 4F: Rebuild existing Substation. Replace or remove replaced equipment. Re-energize.																		
Rigging Truck	Heavy-duty Diesel	NA	NA	2	171	NA	25	0	0	8	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Forklift	Forklifts	89	0.2	2	171	4	NA	0	0	8	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Manlift	Aerial lifts	63	0.31	2	171	4	NA	0	0	8	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	2	171	4	NA	0	0	8	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	171	NA	25	0	0	8	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	171	NA	25	0	0	8	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	171	8	NA	0	0	8	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	0	8	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Dump Truck	Heavy-duty Diesel	NA	NA	1	171	NA	90	0	0	8	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	2	171	4	NA	0	0	8	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	171	NA	25	0	0	8	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Phase 5A -5C: Rebuild existing Substation - Total of 34 weeks worth of work.																		
Rigging Truck	Heavy-duty Diesel	NA	NA	2	111	NA	25	0	0	1	4	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Forklift	Forklifts	89	0.2	2	111	4	NA	0	0	1	4	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Manlift	Aerial lifts	63	0.31	2	111	4	NA	0	0	1	4	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	2	111	4	NA	0	0	1	4	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	111	NA	25	0	0	1	4	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	111	NA	25	0	0	1	4	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	111	4	NA	0	0	1	4	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	0	1	4	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Dump Truck	Heavy-duty Diesel	NA	NA	1	111	NA	90	0	0	1	4	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	2	111	4	NA	0	0	1	4	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	111	NA	25	0	0	1	4	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Cleaning and Landscaping (Assume 4 people for 1 week and work schedule 5-10)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	0	1	0	1	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	1	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	1	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	0	1	0	1	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	0	1	0	1	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	0	1	0	1	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Other																		
Inspectors	light-duty auto/truck	NA	NA	1	450	NA	25	5	12	12	4	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Material Haul Trucks	Heavy-duty Diesel	NA	NA	27	2	NA	150	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419

Table 6
PG&E Lockeford Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

		Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	Onsite DPM Emissions (lb/phase)		Onsite Emissions (lbs/day)					
Equipment / Vehicle List	Equipment / Vehicle Type	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM	Activity	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction: General construction schedule for Lock																	
Water Truck	Heavy-duty Diesel	0.671	3.036	78.207	0.714	277.997	32.370	35.784	0.029	1.419	1	0.001	0.007	0.174	0.002	0.618	0.072
Street Sweeper	Heavy-duty Diesel	0.671	3.036	78.207	0.714	277.997	32.370	35.784	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Phase 1: Civil Site Preparation (10 people for 4 weeks, and wo																	
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	5.043	73.092	45.540	0.132	1.675	1.675	5.657	0.076	1.675	2	0.252	3.655	2.277	0.007	0.084	0.084
Crawler Backhoe	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Bulldozer	rubber tired dozers	25.413	114.354	237.676	0.362	10.274	9.493	15.698	0.147	10.274	2	1.271	5.718	11.884	0.018	0.514	0.475
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Dump Truck	Heavy-duty Diesel	0.322	1.457	37.539	0.342	133.439	15.538	17.177	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Compactor / Roller	Rollers	5.658	74.703	54.540	0.112	2.599	2.428	4.824	0.121	2.599	2	0.283	3.735	2.727	0.006	0.130	0.121
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	2	0.217	2.409	1.450	0.004	0.060	0.060
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.145	8.235	0.947	0.032	3.540	0.912	1.498	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Phase 1a: Exterior Fence, Final Grading, and Paving (10 peopl																	
Concrete Truck	heavy-duty diesel	4.292	19.430	500.526	4.567	1779.182	207.169	229.020	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	5.043	73.092	45.540	0.132	1.675	1.675	5.657	0.076	1.675	2	0.252	3.655	2.277	0.007	0.084	0.084
Crawler Backhoe	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Bulldozer	rubber tired dozers	25.413	114.354	237.676	0.362	10.274	9.493	15.698	0.147	10.274	2	1.271	5.718	11.884	0.018	0.514	0.475
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Dump Truck	Heavy-duty Diesel	0.322	1.457	37.539	0.342	133.439	15.538	17.177	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Compactor / Roller	Rollers	5.658	74.703	54.540	0.112	2.599	2.428	4.824	0.121	2.599	2	0.283	3.735	2.727	0.006	0.130	0.121
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	2	0.217	2.409	1.450	0.004	0.060	0.060
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Grader	Graders	12.289	63.429	118.011	0.281	3.808	3.548	12.159	0.070	3.808	2	0.614	3.171	5.901	0.014	0.190	0.177
Worker Commutes	Light-duty Auto/Truck	0.145	8.235	0.947	0.032	3.540	0.912	1.498	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Phase 1b: All Foundations, Excavation, and Installation for ne																	
Pick-up Truck	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	10.086	146.185	91.080	0.263	3.350	3.350	11.314	0.076	3.350	3	0.252	3.655	2.277	0.007	0.084	0.084
22 Ton Crane	Cranes	10.340	79.627	88.034	0.236	3.544	3.280	10.598	0.075	3.544	3	0.259	1.991	2.201	0.006	0.089	0.082
Concrete Truck	heavy-duty diesel	8.584	38.860	1001.053	9.133	3558.365	414.339	458.041	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	3	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.107	0.486	12.513	0.114	44.480	5.179	5.726	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Compactor	plate compactors	1.604	8.419	10.052	0.019	0.391	0.391	0.627	0.161	0.391	3	0.040	0.210	0.251	0.000	0.010	0.010
Air Compressor	air compressors	8.684	96.364	58.008	0.158	2.414	2.414	6.817	0.091	2.414	3	0.217	2.409	1.450	0.004	0.060	0.060
Forklift	Forklifts	1.747	22.910	15.049	0.033	0.730	0.669	1.407	0.116	0.730	3	0.044	0.573	0.376	0.001	0.018	0.017
Foundation Drill Rig	Bore/Drill Rigs	8.653	81.296	63.964	0.405	2.089	1.964	17.442	0.027	2.089	3	0.216	2.032	1.599	0.010	0.052	0.049
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.290	16.471	1.893	0.065	7.080	1.825	2.996	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Structure Delivery and Setup (disconnect switches, H-frame d																	
Flat Bed Truck	Heavy-duty Diesel	0.215	0.971	25.026	0.228	88.959	10.358	11.451	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Phase 2: Equipment Installation (10 people for 30 weeks, and																	
Pick-up Truck	Light-duty Truck	0.713	26.324	5.148	0.107	136.320	2.192	4.955	0.004	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.475	17.550	3.432	0.071	90.880	1.461	3.304	0.004	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	37.822	548.192	341.551	0.987	12.564	12.564	42.428	0.076	12.564	4	0.252	3.655	2.277	0.007	0.084	0.084
30 Ton Crane	Cranes	19.388	149.301	165.064	0.443	6.646	6.150	19.872	0.075	6.646	4	0.129	0.995	1.100	0.003	0.044	0.041
Front Loader	Tractors/Loaders/Backhoes	21.040	337.911	191.047	0.494	7.026	6.570	21.474	0.074	7.026	4	0.140	2.253	1.274	0.003	0.047	0.044
80' Aerial Lifts	Aerial lifts	6.035	165.557	79.567	0.269	1.447	1.364	11.589	0.028	1.447	4	0.040	1.104	0.530	0.002	0.010	0.009
40' Aerial Lifts	Aerial lifts	6.035	165.557	79.567	0.269	1.447	1.364	11.589	0.028	1.447	4	0.040	1.104	0.530	0.002	0.010	0.009
Dump Truck	Heavy-duty Diesel	0.402	1.822	46.924	0.428	166.798	19.422	21.471	0.029	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Compactor	plate compactors	6.015	31.570	37.694	0.073	1.465	1.465	2.352	0.161	1.465	4	0.040	0.210	0.251	0.000	0.010	0.010
Air Compressor	air compressors	32.567	361.365	217.528	0.594	9.053	9.053	25.566	0.091	9.053	4	0.217	2.409	1.450	0.004	0.060	0.060
Forklift	Forklifts	13.100	171.827	112.868	0.245	5.472	5.020	10.553	0.116	5.472	4	0.087	1.146	0.752	0.002	0.036	0.033
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	1.089	61.766	7.100	0.243	26.551	6.843	11.236	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000

Table 6
PG&E Lockeford Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	Onsite DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
Phase 3: Dress/Test/Wire Equipment (10 people for 8 weeks																	
Rigging Truck	Heavy-duty Diesel	0.060	0.270	6.952	0.063	24.711	2.877	3.181	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Forklift	Forklifts	6.987	91.641	60.196	0.131	2.918	2.677	5.628	0.116	2.918	5	0.175	2.291	1.505	0.003	0.073	0.067
Manlift	Aerial lifts	3.218	88.297	42.436	0.143	0.772	0.727	6.181	0.028	0.772	5	0.080	2.207	1.061	0.004	0.019	0.018
Boom Truck	Cranes	20.681	159.255	176.068	0.473	7.089	6.560	21.196	0.075	7.089	5	0.517	3.981	4.402	0.012	0.177	0.164
1-Ton Truck	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	10.086	146.185	91.080	0.263	3.350	3.350	11.314	0.076	3.350	5	0.252	3.655	2.277	0.007	0.084	0.084
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Dump Truck	Heavy-duty Diesel	0.054	0.243	6.257	0.057	22.240	2.590	2.863	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	8.684	96.364	58.008	0.158	2.414	2.414	6.817	0.091	2.414	5	0.217	2.409	1.450	0.004	0.060	0.060
Worker Commutes	Light-duty Auto/Truck	0.290	16.471	1.893	0.065	7.080	1.825	2.996	0.002	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Phase 4A-4C: Rebuild existing Substation. Install foundations																	
Rigging Truck	Heavy-duty Diesel	0.031	0.142	3.650	0.033	12.973	1.511	1.670	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Forklift	Forklifts	3.668	48.111	31.603	0.069	1.532	1.406	2.955	0.116	1.532	6	0.175	2.291	1.505	0.003	0.073	0.067
Manlift	Aerial lifts	1.690	46.356	22.279	0.075	0.405	0.382	3.245	0.028	0.405	6	0.080	2.207	1.061	0.004	0.019	0.018
Boom Truck	Cranes	10.857	83.609	92.436	0.248	3.722	3.444	11.128	0.075	3.722	6	0.517	3.981	4.402	0.012	0.177	0.164
1-Ton Truck	Light-duty Truck	0.067	2.457	0.480	0.010	12.723	0.205	0.462	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.100	3.685	0.721	0.015	19.085	0.307	0.694	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	5.295	76.747	47.817	0.138	1.759	1.759	5.940	0.076	1.759	6	0.252	3.655	2.277	0.007	0.084	0.084
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Dump Truck	Heavy-duty Diesel	0.056	0.255	6.569	0.060	23.352	2.719	3.006	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	4.559	50.591	30.454	0.083	1.267	1.267	3.579	0.091	1.267	6	0.217	2.409	1.450	0.004	0.060	0.060
Worker Commutes	Light-duty Auto/Truck	0.152	8.647	0.994	0.034	3.717	0.958	1.573	0.002	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Phase 4D - 4F: Rebuild existing Substation. Replace or remov																	
Rigging Truck	Heavy-duty Diesel	0.255	1.154	29.719	0.271	105.639	12.301	13.598	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Forklift	Forklifts	14.934	195.882	128.669	0.279	6.238	5.723	12.031	0.116	6.238	7	0.087	1.146	0.752	0.002	0.036	0.033
Manlift	Aerial lifts	6.880	188.735	90.707	0.306	1.649	1.555	13.211	0.028	1.649	7	0.040	1.104	0.530	0.002	0.010	0.009
Boom Truck	Cranes	44.205	340.407	376.346	1.010	15.153	14.021	45.307	0.075	15.153	7	0.259	1.991	2.201	0.006	0.089	0.082
1-Ton Truck	Light-duty Truck	0.542	20.007	3.912	0.081	103.604	1.666	3.766	0.004	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.813	30.010	5.869	0.121	155.405	2.499	5.649	0.004	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	43.117	624.939	389.368	1.125	14.322	14.322	48.368	0.076	14.322	7	0.252	3.655	2.277	0.007	0.084	0.084
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Dump Truck	Heavy-duty Diesel	0.459	2.077	53.494	0.488	190.150	22.141	24.477	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	37.126	411.956	247.982	0.677	10.320	10.320	29.145	0.091	10.320	7	0.217	2.409	1.450	0.004	0.060	0.060
Worker Commutes	Light-duty Auto/Truck	1.241	70.413	8.094	0.277	30.268	7.801	12.809	0.002	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Phase 5A -5C: Rebuild existing Substation - Total of 34 week																	
Rigging Truck	Heavy-duty Diesel	0.165	0.749	19.291	0.176	68.573	7.985	8.827	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Forklift	Forklifts	9.694	127.152	83.522	0.181	4.049	3.715	7.809	0.116	4.049	8	0.087	1.146	0.752	0.002	0.036	0.033
Manlift	Aerial lifts	4.466	122.512	58.880	0.199	1.071	1.009	8.576	0.028	1.071	8	0.040	1.104	0.530	0.002	0.010	0.009
Boom Truck	Cranes	28.694	220.966	244.295	0.656	9.836	9.101	29.410	0.075	9.836	8	0.259	1.991	2.201	0.006	0.089	0.082
1-Ton Truck	Light-duty Truck	0.352	12.987	2.540	0.053	67.251	1.081	2.445	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.528	19.480	3.809	0.079	100.877	1.622	3.667	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	13.994	202.831	126.374	0.365	4.649	4.649	15.698	0.076	4.649	8	0.126	1.827	1.139	0.003	0.042	0.042
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Dump Truck	Heavy-duty Diesel	0.298	1.348	34.724	0.317	123.431	14.372	15.888	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	24.099	267.410	160.971	0.440	6.699	6.699	18.919	0.091	6.699	8	0.217	2.409	1.450	0.004	0.060	0.060
Worker Commutes	Light-duty Auto/Truck	0.806	45.706	5.254	0.180	19.647	5.064	8.314	0.002	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Cleaning and Landscaping (Assume 4 people for 1 week and v																	
Flat Bed Truck	Heavy-duty Diesel	0.009	0.040	1.043	0.010	3.707	0.432	0.477	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Small Backhoe	Tractors/Loaders/Backhoes	0.701	11.264	6.368	0.016	0.234	0.219	0.716	0.074	0.234	9	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.013	0.061	1.564	0.014	5.560	0.647	0.716	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.015	0.824	0.095	0.003	0.354	0.091	0.150	0.002	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Other																	
Inspectors	light-duty auto/truck	0.327	18.530	2.130	0.073	7.965	2.053	3.371	0.002	0.000	11	0.000	0.000	0.000	0.000	0.000	0.000
Material Haul Trucks	Heavy-duty Diesel	0.241	1.093	28.155	0.257	100.079	11.653	12.882	0.029	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000

Table 6
PG&E Lockeford Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Overlapping Emissions	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2026						
Activities 1,10,11	0.001	0.007	0.174	0.002	0.618	0.072
Activities 1,2,3,11	6.950	65.349	62.194	0.140	2.500	2.354
Activities 1,3,4,11	2.116	26.005	17.768	0.055	1.278	0.708
2027						
Activities 1,4,5, 11	2.190	27.425	19.034	0.053	1.332	0.755
Activities 1,9,11	0.142	2.259	1.447	0.005	0.665	0.116
2028						
Activities 1,5,11	1.243	14.550	10.869	0.031	1.031	0.465
Activities 1, 6,11	1.243	14.550	10.869	0.031	1.031	0.465
Activities 1,7,11	0.857	10.310	7.385	0.021	0.897	0.341
Activities 8,11	0.729	8.476	6.072	0.017	0.237	0.227
2029						
Activities 8,9,11	0.870	10.729	7.346	0.020	0.284	0.271
Worst-Case Daily						
2026	6.950	65.349	62.194	0.140	2.500	2.354
2027	2.190	27.425	19.034	0.053	1.332	0.755
2028	1.243	14.550	10.869	0.031	1.031	0.465
	0.870	10.729	7.346	0.020	0.284	0.271

Notes:
NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equi	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions
Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	Volume (yd^3)	Weight (ton)	Emission Factors (lb/ton		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/unloaded	2026	1,777	2,246	0.000041	0.000006	0.1	0.0
Soil Loaded/unloaded	2027	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0	0.0

Note:
Material density (CalEEMod default, ton/cy) 1.264
Total amount of soil loaded/unloaded (cy): 1,777 (assumed to be split between 2025 and 2026.

Fugitive Dust emissions from Grading

Activity	Year	Area (acre)/Phase	Grader VMT (miles/phase)	Emission Factors (lb/VMT)		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	3	2.06	1.543	0.167	3.2	0.3
Grading	2027	0.00	0.00	1.543	0.167	0.0	0.0
Grading	2028	0.00	0.00	1.543	0.167	0.0	0.0
Grading	2029	0.00	0.00	1.543	0.167	0.0	0.0

Note:
VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)
VMT: vehicle miles traveled

As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)

Wb: blade width of the grader. CalEEMod default Wb = 12 ft.

Total acres to be graded (acres): 3

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric tons/year)	Onsite DPM
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2	(lb/year)
2026	0.107	1.102	1.724	0.010	3.152	0.388	976.715	68.780
2027	0.077	1.040	0.722	0.003	0.385	0.056	234.793	49.141
2028	0.100	1.248	0.914	0.003	0.501	0.072	299.749	64.110
2029	0.033	0.413	0.300	0.001	#VALUE!	0.023	0.049	21.160

Table 7

PG&E 12 kV Service Line Extension into PG&E Thurman Switching Station

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
General Construction: Average commute from Hotels to job site.																		
Pick-up Truck	Light-duty Truck	NA	NA	2	20	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Safety Inspection	Light-duty Auto/Truck	NA	NA	1	20	NA	50	0	2	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	20	NA	25	0	2	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Street Sweeper	Heavy-duty Diesel	NA	NA	1	20	NA	50	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Mobilization: Thurman Yard or Staging Area																		
Direction Drill Machine -HDD	Bore/Drill Rigs	221	0.5	1	15	8	NA	0	2	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Vacuum Truck- Pump Intake	Pumps	84	0.74	1	15	8	NA	0	2	0	0	0.247	3.385	2.103	0.006	0.081	0.081	568.844
2 Stationary Pumps	Pumps	84	0.74	2	15	8	NA	0	2	0	0	0.247	3.385	2.103	0.006	0.081	0.081	568.844
10-Cu Asphalt/Concrete Truck	Heavy-duty Diesel	NA	NA	1	2	NA	60	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	60	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Water Truck	Heavy-duty Diesel	NA	NA	1	15	NA	60	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Excavator/Ditch Witch	excavators	158	0.38	1	15	8	NA	0	2	0	0	0.169	3.135	1.028	0.005	0.050	0.046	494.812
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	10	8	NA	0	2	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Road Grader	Graders	187	0.41	1	10	8	NA	0	2	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Drum Type Compactor	Plate Compactors	8	0.43	1	5	8	NA	0	2	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
10 ton fork lift	Forklifts	89	0.2	1	5	5	NA	0	2	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
30 Ton Crane	Cranes	231	0.29	1	5	5	NA	0	2	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
boom truck	Cranes	231	0.29	1	5	8	NA	0	2	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Cable puller Truck, 4 × 4	light-duty truck	NA	NA	1	20	NA	15	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	NA	NA	2	20	NA	15	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	10	NA	2	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	20	NA	25	0	2	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 7

PG&E 12 kV Service Line Extension into PG&E Thurman Switching St

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction: Average commute from Hotels to job site.																	
Pick-up Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Safety Inspection	Light-duty Auto/Truck	0.029	1.647	0.189	0.006	0.708	0.182	0.300	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.029	1.647	0.189	0.006	0.708	0.182	0.300	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Street Sweeper	Heavy-duty Diesel	0.030	0.135	3.476	0.032	12.355	1.439	1.590	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Mobilization: Thurman Yard or Staging Area																	
Direction Drill Machine -HDD	Bore/Drill Rigs	3.245	30.486	23.987	0.152	0.783	0.737	6.541	0.027	0.783	2	0.216	2.032	1.599	0.010	0.052	0.049
Vacuum Truck- Pump Intake	Pumps	4.068	55.658	34.579	0.099	1.329	1.329	4.243	0.081	1.329	2	0.271	3.711	2.305	0.007	0.089	0.089
2 Stationary Pumps	Pumps	8.137	111.316	69.159	0.197	2.657	2.657	8.486	0.081	2.657	2	0.542	7.421	4.611	0.013	0.177	0.177
10-Cu Asphalt/Concrete Truck	Heavy-duty Diesel	0.004	0.016	0.417	0.004	1.483	0.173	0.191	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
10-Cu Dump Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Water Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.057	2	0.002	0.008	0.209	0.002	0.741	0.086
Excavator/Ditch Witch	excavators	2.684	49.792	16.327	0.083	0.797	0.734	3.565	0.050	0.797	2	0.179	3.319	1.088	0.006	0.053	0.049
Backhoe/Front Loader	Tractors/Loaders/Backhoes	2.805	45.055	25.473	0.066	0.937	0.876	2.863	0.074	0.937	2	0.281	4.505	2.547	0.007	0.094	0.088
Road Grader	Graders	3.072	15.857	29.503	0.070	0.952	0.887	3.040	0.070	0.952	2	0.307	1.586	2.950	0.007	0.095	0.089
Drum Type Compactor	Plate Compactors	0.201	1.052	1.256	0.002	0.049	0.049	0.078	0.161	0.049	2	0.040	0.210	0.251	0.000	0.010	0.010
10 ton fork lift	Forklifts	0.273	3.580	2.351	0.005	0.114	0.105	0.220	0.116	0.114	2	0.055	0.716	0.470	0.001	0.023	0.021
30 Ton Crane	Cranes	0.808	6.221	6.878	0.018	0.277	0.256	0.828	0.075	0.277	2	0.162	1.244	1.376	0.004	0.055	0.051
boom truck	Cranes	1.293	9.953	11.004	0.030	0.443	0.410	1.325	0.075	0.443	2	0.259	1.991	2.201	0.006	0.089	0.082
Cable puller Truck, 4 × 4	light-duty truck	0.019	0.702	0.137	0.003	3.635	0.058	0.132	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	0.038	1.404	0.275	0.006	7.270	0.117	0.264	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer	Heavy-duty Diesel	0.001	0.003	0.070	0.001	0.247	0.029	0.032	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.116	6.588	0.757	0.026	2.832	0.730	1.198	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000

Table 7

PG&E 12 kV Service Line Extension into PG&E Thurman Switching Station

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Worst-Case Daily						
	ROG	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2026	0.000	0.000	0.000	0.000	0.000	0.000
2027	2.313	26.744	19.608	0.062	1.478	0.790
2028	0.000	0.000	0.000	0.000	0.000	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000

Overlapping ov actifities 1 and 2.

Notes:

NA = Parameter not required for computing emissions.

1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters

3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipmen	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions

Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	**Year**	**Volume (yd^3)**	**Weight (ton)**	**Emission Factors (lb/ton**		**Emissions (lb/phase)**	
				PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
Soil Loaded/unloaded	2026	0	0	0.000041	0.000006	0.0000	0.0000
Soil Loaded/unloaded	2027	13	16	0.000041	0.000006	0.0007	0.0001
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0000	0.0000
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0000	0.0000

Note:

Material density (CalEEMod default, ton/cy)	1.264
Total amount of soil loaded/unloaded (cy):	13

Fugitive Dust emissions from Grading

Activity	**Year**	**Area (acre)/**	**(miles/phas e)**	**Emission Factors (lb/VMT)**		**Emissions (lb/phase)**	
				PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
Grading	2026	0	0.00	1.543	0.167	0.0	0.0
Grading	2027	0	0.00	1.543	0.167	0.0	0.0
	2028	0	0.00	1.543	0.167	0.0	0.0
Grading	2029	0	0.00	1.543	0.167	0.0	0.0

Note:

VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)

VMT: vehicle miles traveled

As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)

Wb: blade width of the grader. CalEEMod default Wb = 12 ft.

Total acres to be graded (acres):	0

Annual Emissions Summary

Year	**Emissions (ton/year)**						**Emissions (metric tons/year)**	**Onsite DPM (lb/year)**
	ROG	**CO**	**NOx**	**SOx**	**PM_{10} [d]**	**$PM_{2.5}$ [d]**	**CO_2**	
2026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.013	0.172	0.116	0.000	0.036	0.007	38.500	8.395
2028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 8
PG&E Remote End Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
System Work at Brighton Substation																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
General Construction at Brighton Substation																		
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Manlift	Aerial lifts	63	0.31	1	5	5	NA	0	0	4	2	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	0	0	4	2	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Boom Truck	Cranes	231	0.29	1	5	6	NA	0	0	4	2	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	0	0	4	2	0.220	3.135	1.826	0.005	0.093	0.086	492.644
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	0	0	4	2	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	0	4	2	0.013	0.747	0.086	0.003	0.321	0.083	299.621
System Work at Rio Oso Substation																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
General Construction at Rio Oso Substation																		
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Manlift	Aerial lifts	63	0.31	1	5	5	NA	0	0	4	2	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	0	0	4	2	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Boom Truck	Cranes	231	0.29	1	5	6	6	0	0	4	2	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	0	0	4	2	0.220	3.135	1.826	0.005	0.093	0.086	492.644
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	0	0	4	2	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	0	4	2	0.013	0.747	0.086	0.003	0.321	0.083	299.621
System Work at Bellota Substation																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	2	0	1	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	2	0	1	0.013	0.747	0.086	0.003	0.321	0.083	299.621
General Construction at Bellota Substation																		
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	0	0	4	2	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Manlift	Aerial lifts	63	0.31	1	5	5	NA	0	0	4	2	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	0	0	4	2	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Boom Truck	Cranes	231	0.29	1	5	6	6	0	0	4	2	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	0	0	4	2	0.220	3.135	1.826	0.005	0.093	0.086	492.644
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	0	0	4	2	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	0	4	2	0.013	0.747	0.086	0.003	0.321	0.083	299.621
General Construction at Clayton Hill																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 8
PG&E Remote End Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

		Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	Onsite DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
Equipment / Vehicle List	Equipment / Vehicle Type	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
System Work at Brighton Substation																	
Mechanics Truck	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
General Construction at Brighton Substation																	
3/4-Ton Pick-up Truck	Light-duty Truck	0.025	0.936	0.183	0.004	4.847	0.078	0.176	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.006	0.234	0.046	0.001	1.212	0.019	0.044	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Manlift	Aerial lifts	0.126	3.449	1.658	0.006	0.030	0.028	0.241	0.028	0.030	2	0.025	0.690	0.332	0.001	0.006	0.006
Dump Truck	Heavy-duty Diesel	0.001	0.004	0.104	0.001	0.371	0.043	0.048	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Boom Truck	Cranes	0.969	7.465	8.253	0.022	0.332	0.307	0.994	0.075	0.332	2	0.194	1.493	1.651	0.004	0.066	0.061
Jack Hammer	Other Construction Equipment	1.052	14.976	8.723	0.025	0.446	0.412	1.068	0.093	0.446	2	0.210	2.995	1.745	0.005	0.089	0.082
Small Backhoe	Tractors/Loaders/Backhoes	0.438	7.040	3.980	0.010	0.146	0.137	0.447	0.074	0.146	2	0.088	1.408	0.796	0.002	0.029	0.027
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
System Work at Rio Oso Substation																	
Mechanics Truck	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
General Construction at Rio Oso Substation																	
3/4-Ton Pick-up Truck	Light-duty Truck	0.025	0.936	0.183	0.004	4.847	0.078	0.176	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.006	0.234	0.046	0.001	1.212	0.019	0.044	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Manlift	Aerial lifts	0.126	3.449	1.658	0.006	0.030	0.028	0.241	0.028	0.030	2	0.025	0.690	0.332	0.001	0.006	0.006
Dump Truck	Heavy-duty Diesel	0.001	0.004	0.104	0.001	0.371	0.043	0.048	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Boom Truck	Cranes	0.969	7.465	8.253	0.022	0.332	0.307	0.994	0.075	0.332	2	0.194	1.493	1.651	0.004	0.066	0.061
Jack Hammer	Other Construction Equipment	1.052	14.976	8.723	0.025	0.446	0.412	1.068	0.093	0.446	2	0.210	2.995	1.745	0.005	0.089	0.082
Small Backhoe	Tractors/Loaders/Backhoes	0.438	7.040	3.980	0.010	0.146	0.137	0.447	0.074	0.146	2	0.088	1.408	0.796	0.002	0.029	0.027
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
System Work at Bellota Substation																	
Mechanics Truck	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
General Construction at Bellota Substation																	
3/4-Ton Pick-up Truck	Light-duty Truck	0.025	0.936	0.183	0.004	4.847	0.078	0.176	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.006	0.234	0.046	0.001	1.212	0.019	0.044	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Manlift	Aerial lifts	0.126	3.449	1.658	0.006	0.030	0.028	0.241	0.028	0.030	2	0.025	0.690	0.332	0.001	0.006	0.006
Dump Truck	Heavy-duty Diesel	0.001	0.004	0.104	0.001	0.371	0.043	0.048	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Boom Truck	Cranes	0.969	7.465	8.253	0.022	0.332	0.307	0.994	0.075	0.332	2	0.194	1.493	1.651	0.004	0.066	0.061
Jack Hammer	Other Construction Equipment	1.052	14.976	8.723	0.025	0.446	0.412	1.068	0.093	0.446	2	0.210	2.995	1.745	0.005	0.089	0.082
Small Backhoe	Tractors/Loaders/Backhoes	0.438	7.040	3.980	0.010	0.146	0.137	0.447	0.074	0.146	2	0.088	1.408	0.796	0.002	0.029	0.027
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
General Construction at Clayton Hill																	
Mechanics Truck	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000

Table 8
PG&E Remote End Substation Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Overlapping Emissions	ROG	CO	NOx	SOx	PM_{10} [d]	$PM_{2.5}$ [d]
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2027						
activity 1,4	0.000	0.000	0.000	0.000	0.000	0.000
Activity 3	0.000	0.000	0.000	0.000	0.000	0.000
2028						
Activity 2	1.551	19.758	13.568	0.038	0.573	0.531
2029						
Activity 2,4	1.551	19.758	13.568	0.038	0.573	0.531
Worst-Case Daily						
2026	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.000	0.000	0.000	0.000	0.000	0.000
2028	1.551	19.758	13.568	0.038	0.573	0.531
2029	1.551	19.758	13.568	0.038	0.573	0.531

Notes:
NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipment	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions

Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	Volume (yd^3)	Weight (ton)	Emission Factors (lb/ton		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/unloaded	2026	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2027	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0	0.0

Note:
Material density (CalEEMod default, ton/cy) 1.264
Total amount of soil loaded/unloaded (cy): 0

Fugitive Dust emissions from Grading

Activity	Year	Area (acre)/Ph	Grader VMT (miles/phase)	Emission Factors (lb/VMT)		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	0	0.00	1.543	0.167	0.0	0.0
Grading	2027	0	0.00	1.543	0.167	0.0	0.0
Grading	2028	0	0.00	1.543	0.167	0.0	0.0
Grading	2029	0	0.00	1.543	0.167	0.0	0.0

Note:
VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)
VMT: vehicle miles traveled
As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)
Wb: blade width of the grader. CalEEMod default Wb = 12 ft.
Total acres to be graded (acres): 0

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric tons/year)	DPM (lb/year)
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2	DPM
2026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.000	0.009	0.001	0.000	0.004	0.001	3.296	0.000
2028	0.003	0.037	0.023	0.000	0.008	0.001	6.935	1.910
2029	0.001	0.019	0.012	0.000	0.005	0.001	3.767	0.955

Table 9
PG&E Thurman Switching Station Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
General Construction (Assume 9 months to build this green field substation, work schedule 5-10)																		
Water Truck	Heavy-duty Diesel	NA	NA	1	85	NA	50	2	9	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Street Sweeper	Heavy-duty Diesel	NA	NA	1	50	NA	50	2	9	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Civil Site Preparation (Assume clear ultimate pad size of 514' X 500', around 6 Acre, 10 people for 4 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	1	0	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	20	8	NA	1	0	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	1	0	0	0	0.365	1.641	3.410	0.005	0.147	0.136	496.529
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1	0	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor / Roller	Rollers	80	0.38	4	20	8	NA	1	0	0	0	0.264	3.483	2.543	0.005	0.121	0.113	495.936
Air Compressor	air compressors	78	0.48	2	20	4	NA	1	0	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	1	0	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	1	0	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Foundations, Excavation, and Installation (Assume 321 different size foundations, total 750 Cu Yd concrete, 10 people for 8 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	40	8	NA	0	2	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
22 Ton Crane	Cranes	231	0.29	1	30	8	NA	0	2	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Concrete Truck	heavy-duty diesel	NA	NA	80	30	NA	90	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	40	8	NA	0	2	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor	plate compactors	8	0.43	2	40	8	NA	0	2	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
Air Compressor	air compressors	78	0.48	2	40	4	NA	0	2	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	1	40	8	NA	0	2	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	40	8	NA	0	2	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	0	2	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Structure Delivery and Setup (Assume sixteen disconnect switches, six H-frame deadend structure, two station service, fourteen single phase CCVT, high bus #1 & 2, and two bay low bus)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	10	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Equipment Installation (Assume six breakers, sixteen disconnect switches, six H-frame deadend structure, two station service, fourteen single phase CCVT, high bus #1 & 2, two bay low bus and jumpers, 10 people for 12 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	60	NA	25	0	3	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	60	NA	25	0	3	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	60	8	NA	0	3	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
30 Ton Crane	Cranes	231	0.29	1	60	4	NA	0	3	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	60	4	NA	0	3	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
80' Aerial Lifts	Aerial lifts	63	0.31	2	60	4	NA	0	3	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
40' Aerial Lifts	Aerial lifts	63	0.31	2	60	4	NA	0	3	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	0	3	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor	plate compactors	8	0.43	2	60	4	NA	0	3	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
Air Compressor	air compressors	78	0.48	2	60	4	NA	0	3	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	2	60	4	NA	0	3	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	3	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	60	NA	25	0	3	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Dress/Test/Wire Equipment (Assume six breakers, sixteen disconnect switches, four spans of overhead transmission line inside substation, two station service, fourteen single phase CCVT, 10 people for 8 weeks, and work schedule 5-10)																		
Rigging Truck	Heavy-duty Diesel	NA	NA	2	10	NA	25	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Forklift	Forklifts	89	0.2	2	40	8	NA	0	2	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Manlift	Aerial lifts	63	0.31	2	40	8	NA	0	2	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	2	40	8	NA	0	2	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	40	8	NA	0	2	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Dump Truck	Heavy-duty Diesel	NA	NA	1	10	NA	90	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419

Table 9
PG&E Thurman Switching Station Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
Air Compressor	air compressors	78	0.48	2	20	4	NA	0	2	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	0	2	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Exterior Walls, Final Grading, and Paving (Assume 1350' X 20' X 1' of paved road, grade ultimate pad size of 514' X 500', around 6 Acre, 10 people for 4 weeks, and work schedule 5-10)																		
Concrete Truck	heavy-duty diesel	NA	NA	100	20	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Office Trailer	Generator sets	84	0.74	1	20	8	NA	0	1	0	0	0.230	3.334	2.077	0.006	0.076	0.076	568.799
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	0	1	0	0	0.365	1.641	3.410	0.005	0.147	0.136	496.529
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor / Roller	Rollers	80	0.38	4	20	8	NA	0	1	0	0	0.264	3.483	2.543	0.005	0.121	0.113	495.936
Air Compressor	air compressors	78	0.48	2	20	4	NA	0	1	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Grader	Graders	187	0.41	2	20	8	NA	0	1	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Cleaning and Landscaping (Assume 4 people for 1 week and work schedule 5-10)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Other																		
Material Haul Trucks	Heavy-duty Diesel	NA	NA	25	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Inspector Vehicles	light-duty auto/truck	NA	NA	1	180	NA	25	2	9	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 9
PG&E Thurman Switching Station Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

		Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	DPM Emissions (lb/phase)		Onsite Emissions (lbs/day) [c]					
Equipment / Vehicle List	Equipment / Vehicle Type	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM	Activity	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction (Assume 9 months to build this green field subs																	
Water Truck	Heavy-duty Diesel	0.127	0.573	14.772	0.135	52.511	6.114	6.759	0.029	0.268	1	0.001	0.007	0.174	0.002	0.618	0.072
Street Sweeper	Heavy-duty Diesel	0.075	0.337	8.690	0.079	30.889	3.597	3.976	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Civil Site Preparation (Assume clear ultimate pad size of 514' X 500', a																	
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	5.043	73.092	45.540	0.132	1.675	1.675	5.657	0.076	1.675	2	0.252	3.655	2.277	0.007	0.084	0.084
Crawler Backhoe	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Bulldozer	rubber tired dozers	25.413	114.354	237.676	0.362	10.274	9.493	15.698	0.147	10.274	2	1.271	5.718	11.884	0.018	0.514	0.475
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	2	0.281	4.505	2.547	0.007	0.094	0.088
Dump Truck	Heavy-duty Diesel	0.322	1.457	37.539	0.342	133.439	15.538	17.177	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Compactor / Roller	Rollers	11.315	149.405	109.080	0.223	5.199	4.855	9.649	0.121	5.199	2	0.566	7.470	5.454	0.011	0.260	0.243
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	2	0.217	2.409	1.450	0.004	0.060	0.060
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.145	8.235	0.947	0.032	3.540	0.912	1.498	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Foundations, Excavation, and Installation (Assume 321 different size f																	
Pick-up Truck	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	10.086	146.185	91.080	0.263	3.350	3.350	11.314	0.076	3.350	3_4	0.252	3.655	2.277	0.007	0.084	0.084
22 Ton Crane	Cranes	7.755	59.720	66.026	0.177	2.658	2.460	7.949	0.075	2.658	3_4	0.259	1.991	2.201	0.006	0.089	0.082
Concrete Truck	heavy-duty diesel	6.438	29.145	750.789	6.850	2668.773	310.754	343.531	0.029	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	3_4	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.107	0.486	12.513	0.114	44.480	5.179	5.726	0.029	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
Compactor	plate compactors	3.208	16.837	20.104	0.039	0.781	0.781	1.254	0.161	0.781	3_4	0.080	0.421	0.503	0.001	0.020	0.020
Air Compressor	air compressors	8.684	96.364	58.008	0.158	2.414	2.414	6.817	0.091	2.414	3_4	0.217	2.409	1.450	0.004	0.060	0.060
Forklift	Forklifts	3.493	45.820	30.098	0.065	1.459	1.339	2.814	0.116	1.459	3_4	0.087	1.146	0.752	0.002	0.036	0.033
Foundation Drill Rig	Bore/Drill Rigs	8.653	81.296	63.964	0.405	2.089	1.964	17.442	0.027	2.089	3_4	0.216	2.032	1.599	0.010	0.052	0.049
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.290	16.471	1.893	0.065	7.080	1.825	2.996	0.002	0.000	3_4	0.000	0.000	0.000	0.000	0.000	0.000
Structure Delivery and Setup (Assume sixteen disconnect switches, six																	
Flat Bed Truck	Heavy-duty Diesel	0.089	0.405	10.428	0.095	37.066	4.316	4.771	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Equipment Installation (Assume six breakers, sixteen disconnect switc																	
Pick-up Truck	Light-duty Truck	0.285	10.530	2.059	0.043	54.528	0.877	1.982	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	15.129	219.277	136.620	0.395	5.025	5.025	16.971	0.076	5.025	6	0.252	3.655	2.277	0.007	0.084	0.084
30 Ton Crane	Cranes	7.755	59.720	66.026	0.177	2.658	2.460	7.949	0.075	2.658	6	0.129	0.995	1.100	0.003	0.044	0.041
Front Loader	Tractors/Loaders/Backhoes	8.416	135.164	76.419	0.197	2.810	2.628	8.590	0.074	2.810	6	0.140	2.253	1.274	0.003	0.047	0.044
80' Aerial Lifts	Aerial lifts	2.414	66.223	31.827	0.107	0.579	0.546	4.636	0.028	0.579	6	0.040	1.104	0.530	0.002	0.010	0.009
40' Aerial Lifts	Aerial lifts	2.414	66.223	31.827	0.107	0.579	0.546	4.636	0.028	0.579	6	0.040	1.104	0.530	0.002	0.010	0.009
Dump Truck	Heavy-duty Diesel	0.107	0.486	12.513	0.114	44.480	5.179	5.726	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Compactor	plate compactors	2.406	12.628	15.078	0.029	0.586	0.586	0.941	0.161	0.586	6	0.040	0.210	0.251	0.000	0.010	0.010
Air Compressor	air compressors	13.027	144.546	87.011	0.238	3.621	3.621	10.226	0.091	3.621	6	0.217	2.409	1.450	0.004	0.060	0.060
Forklift	Forklifts	5.240	68.731	45.147	0.098	2.189	2.008	4.221	0.116	2.189	6	0.087	1.146	0.752	0.002	0.036	0.033
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.436	24.706	2.840	0.097	10.620	2.737	4.494	0.002	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Dress/Test/Wire Equipment (Assume six breakers, sixteen disconnect																	
Rigging Truck	Heavy-duty Diesel	0.015	0.067	1.738	0.016	6.178	0.719	0.795	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Forklift	Forklifts	6.987	91.641	60.196	0.131	2.918	2.677	5.628	0.116	2.918	7	0.175	2.291	1.505	0.003	0.073	0.067
Manlift	Aerial lifts	3.218	88.297	42.436	0.143	0.772	0.727	6.181	0.028	0.772	7	0.080	2.207	1.061	0.004	0.019	0.018
Boom Truck	Cranes	20.681	159.255	176.068	0.473	7.089	6.560	21.196	0.075	7.089	7	0.517	3.981	4.402	0.012	0.177	0.164
1-Ton Truck	Light-duty Truck	0.127	4.680	0.915	0.019	24.235	0.390	0.881	0.004	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.190	7.020	1.373	0.028	36.352	0.585	1.321	0.004	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	10.086	146.185	91.080	0.263	3.350	3.350	11.314	0.076	3.350	7	0.252	3.655	2.277	0.007	0.084	0.084
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Dump Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000

Table 9
PG&E Thurman Switching Station Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

		Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	DPM Emissions (lb/phase)		Onsite Emissions (lbs/day) [c]					
Equipment / Vehicle List	**Equipment / Vehicle Type**	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**	**DPM**	**DPM**	Activity	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	7	0.217	2.409	1.450	0.004	0.060	0.060
Worker Commutes	Light-duty Auto/Truck	0.290	16.471	1.893	0.065	7.080	1.825	2.996	0.002	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Exterior Walls, Final Grading, and Paving (Assume 1350' X 20' X 1' of																	
Concrete Truck	heavy-duty diesel	5.365	24.287	625.658	5.708	2223.978	258.962	286.275	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Office Trailer	Generator sets	5.043	73.092	45.540	0.132	1.675	1.675	5.657	0.076	1.675	8	0.252	3.655	2.277	0.007	0.084	0.084
Crawler Backhoe	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	8	0.281	4.505	2.547	0.007	0.094	0.088
Bulldozer	rubber tired dozers	25.413	114.354	237.676	0.362	10.274	9.493	15.698	0.147	10.274	8	1.271	5.718	11.884	0.018	0.514	0.475
Front Loader	Tractors/Loaders/Backhoes	5.611	90.109	50.946	0.132	1.874	1.752	5.726	0.074	1.874	8	0.281	4.505	2.547	0.007	0.094	0.088
Dump Truck	Heavy-duty Diesel	0.322	1.457	37.539	0.342	133.439	15.538	17.177	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Compactor / Roller	Rollers	11.315	149.405	109.080	0.223	5.199	4.855	9.649	0.121	5.199	8	0.566	7.470	5.454	0.011	0.260	0.243
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	8	0.217	2.409	1.450	0.004	0.060	0.060
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Grader	Graders	12.289	63.429	118.011	0.281	3.808	3.548	12.159	0.070	3.808	8	0.614	3.171	5.901	0.014	0.190	0.177
Worker Commutes	Light-duty Auto/Truck	0.145	8.235	0.947	0.032	3.540	0.912	1.498	0.002	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000
Cleaning and Landscaping (Assume 4 people for 1 week and work sch																	
Flat Bed Truck	Heavy-duty Diesel	0.027	0.121	3.128	0.029	11.120	1.295	1.431	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Small Backhoe	Tractors/Loaders/Backhoes	0.701	11.264	6.368	0.016	0.234	0.219	0.716	0.074	0.234	9	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.013	0.061	1.564	0.014	5.560	0.647	0.716	0.029	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.015	0.824	0.095	0.003	0.354	0.091	0.150	0.002	0.000	9	0.000	0.000	0.000	0.000	0.000	0.000
Other																	
Material Haul Trucks	Heavy-duty Diesel	0.224	1.012	26.069	0.238	92.666	10.790	11.928	0.029	0.000	10	0.000	0.000	0.000	0.000	0.000	0.000
Inspector Vehicles	light-duty auto/truck	0.131	7.412	0.852	0.029	3.186	0.821	1.348	0.002	0.000	11	0.000	0.000	0.000	0.000	0.000	0.000

Table 9
PG&E Thurman Switching Station Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Overlapping Emissions	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2026						
Activities 1,11	0.001	0.007	0.174	0.002	0.618	0.072
Activities 2,10,11	2.867	28.263	26.160	0.053	1.105	1.037
2027						
Activities 3_4, 10, 11	1.252	13.906	10.056	0.032	0.388	0.372
Activities 5,10, 11						
Activities 6,11	0.947	12.875	8.166	0.022	0.301	0.290
Activities 7,10,11	1.241	14.544	10.695	0.029	0.414	0.393
Activities 8,9,10,11	3.621	33.687	33.334	0.070	1.342	1.258
Worst-Case Daily						
2026	2.867	28.263	26.160	0.053	1.105	1.037
2027	3.621	33.687	33.334	0.070	1.342	1.258
2028	0.000	0.000	0.000	0.000	0.000	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000

Notes:

NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipment =	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions
Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	Volume (yd^3)	Weight (ton)	Emission Factors (lb/ton		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/unloaded	2026	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2027	4,890	6,182	0.000041	0.000006	0.3	0.0
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0	0.0

Note:

Material density (CalEEMod default, ton/cy) 1.264
Total amount of soil loaded/unloaded (cy): 4,890 (assumed to be in 2027

Fugitive Dust emissions from Grading

Activity	Year	Area (acre)/P	(miles/phase	Emission Factors		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	0	0.00	1.543	0.167	0.0	0.0
Grading	2027	6.25	4.30	1.543	0.167	6.6	0.7
Grading	2028	0.00	0.00	1.543	0.167	0.0	0.0
Grading	2029	0.00	0.00	1.543	0.167	0.0	0.0

Note:
VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)
VMT: vehicle miles traveled
As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)
Wb: blade width of the grader. CalEEMod default Wb = 12 ft.
Total acres to be graded (acres): 6.25

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric	Onsite DPM
	ROG	CO	NOx	SOx	PM_{10} [d]	$PM_{2.5}$ [d]	CO_2	(lb/year)
2026	0.029	0.291	0.285	0.001	0.112	0.021	69.270	22.151
2027	0.118	1.331	1.725	0.010	2.871	0.355	934.129	74.373
2028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 10

PG&E Microwave Tower within PG&E Thurman Switching Station Construction Emissions

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
General Construction (Assume separate contractor to build 100' tower. 10 men crew for 4 months and work schedule 5-10)																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	1	80	NA	25	0	4	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	80	NA	25	0	4	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Tower Foundation Installation (Assume 4 foundations, total 160 Cu Yd concrete, 6 people for 4 weeks, and work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	2	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
22 Ton Crane	Cranes	231	0.29	1	20	8	NA	0	1	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Concrete Truck	heavy-duty diesel	NA	NA	16	20	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	20	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Compactor	plate compactors	8	0.43	1	20	8	NA	0	1	0	0	0.661	3.469	4.142	0.008	0.161	0.161	569.774
Air Compressor	air compressors	78	0.48	1	20	4	NA	0	1	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	1	20	8	NA	0	1	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	20	8	NA	0	1	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Structure Delivery and Setup (Assume 100' tower steel)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	4	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Tower Installation (Assume 125' tower, 10 people for 4 weeks, work schedule 5-10)																		
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
30 Ton Crane	Cranes	231	0.29	1	20	8	NA	0	1	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	20	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
120' Aerial Lifts	Aerial Lifts	63	0.31	1	20	8	NA	0	1	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	2	20	4	NA	0	1	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Forklift	Forklifts	89	0.2	1	20	8	NA	0	1	0	0	0.278	3.649	2.397	0.005	0.116	0.107	494.068
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Communication Equipment Installation & Testing (Assume 10 people for 8 weeks and work schedule 5-10)																		
Rigging Truck	Heavy-duty Diesel	NA	NA	1	20	NA	25	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Manlift	Aerial lifts	63	0.31	1	20	8	NA	0	2	0	0	0.117	3.204	1.540	0.005	0.028	0.026	494.496
Boom Truck	Cranes	231	0.29	1	20	8	NA	0	2	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	0	2	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	0	2	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Air Compressor	air compressors	78	0.48	1	20	8	NA	0	2	0	0	0.329	3.648	2.196	0.006	0.091	0.091	569.034
Cleaning and Landscaping (Assume 4 people for 1 week and work schedule 5-10)																		
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Worker Commutes	Light-duty Auto/Truck	NA	NA	1	5	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Other																		
Material Haul Trucks	Heavy-duty Diesel	NA	NA	8	2	NA	150	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	1590.419
Inspector Vehicles	light-duty auto/truck	NA	NA	1	20	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 10

PG&E Microwave Tower within PG&E Thurman Switching Station Con

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase)						Emissions (metric tons/phase)	DPM Emission Factors, (g/hp/hr) for equipment, g/mile for vehicles,	DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction (Assume separate contractor to build 100' tow																	
Mechanics Truck	Light-duty Auto/Truck	0.058	3.294	0.379	0.013	1.416	0.365	0.599	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.581	32.942	3.787	0.129	14.160	3.650	5.992	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Tower Foundation Installation (Assume 4 foundations, total 160 Cu																	
Pick-up Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.032	1.170	0.229	0.005	6.059	0.097	0.220	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
22 Ton Crane	Cranes	5.170	39.814	44.017	0.118	1.772	1.640	5.299	0.075	1.772	2	0.259	1.991	2.201	0.006	0.089	0.082
Concrete Truck	heavy-duty diesel	0.858	3.886	100.105	0.913	355.836	41.434	45.804	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Front Loader	Tractors/Loaders/Backhoes	2.805	45.055	25.473	0.066	0.937	0.876	2.863	0.074	0.937	2	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.054	0.243	6.257	0.057	22.240	2.590	2.863	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Compactor	plate compactors	0.802	4.209	5.026	0.010	0.195	0.195	0.314	0.161	0.195	2	0.040	0.210	0.251	0.000	0.010	0.010
Air Compressor	air compressors	2.171	24.091	14.502	0.040	0.604	0.604	1.704	0.091	0.604	2	0.109	1.205	0.725	0.002	0.030	0.030
Forklift	Forklifts	1.747	22.910	15.049	0.033	0.730	0.669	1.407	0.116	0.730	2	0.087	1.146	0.752	0.002	0.036	0.033
Foundation Drill Rig	Bore/Drill Rigs	4.326	40.648	31.982	0.203	1.045	0.982	8.721	0.027	1.045	2	0.216	2.032	1.599	0.010	0.052	0.049
Flat Bed Truck	Heavy-duty Diesel	0.009	0.040	1.043	0.010	3.707	0.432	0.477	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Structure Delivery and Setup (Assume 100' tower steel)																	
Flat Bed Truck	Heavy-duty Diesel	0.036	0.162	4.171	0.038	14.827	1.726	1.909	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Tower Installation (Assume 125' tower, 10 people for 4 weeks, work																	
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
30 Ton Crane	Cranes	5.170	39.814	44.017	0.118	1.772	1.640	5.299	0.075	1.772	4	0.259	1.991	2.201	0.006	0.089	0.082
Front Loader	Tractors/Loaders/Backhoes	2.805	45.055	25.473	0.066	0.937	0.876	2.863	0.074	0.937	4	0.140	2.253	1.274	0.003	0.047	0.044
120' Aerial Lifts	Aerial Lifts	0.805	22.074	10.609	0.036	0.193	0.182	1.545	0.028	0.193	4	0.040	1.104	0.530	0.002	0.010	0.009
Dump Truck	Heavy-duty Diesel	0.054	0.243	6.257	0.057	22.240	2.590	2.863	0.029	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	4	0.217	2.409	1.450	0.004	0.060	0.060
Forklift	Forklifts	1.747	22.910	15.049	0.033	0.730	0.669	1.407	0.116	0.730	4	0.087	1.146	0.752	0.002	0.036	0.033
Flat Bed Truck	Heavy-duty Diesel	0.009	0.040	1.043	0.010	3.707	0.432	0.477	0.029	0.000		0.000	0.000	0.000	0.000	0.000	0.000
Communication Equipment Installation & Testing (Assume 10 peop																	
Rigging Truck	Heavy-duty Diesel	0.015	0.067	1.738	0.016	6.178	0.719	0.795	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Manlift	Aerial lifts	0.805	22.074	10.609	0.036	0.193	0.182	1.545	0.028	0.193	5	0.040	1.104	0.530	0.002	0.010	0.009
Boom Truck	Cranes	5.170	39.814	44.017	0.118	1.772	1.640	5.299	0.075	1.772	5	0.259	1.991	2.201	0.006	0.089	0.082
1-Ton Truck	Light-duty Truck	0.063	2.340	0.458	0.009	12.117	0.195	0.440	0.004	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.095	3.510	0.686	0.014	18.176	0.292	0.661	0.004	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Flat Bed Truck	Heavy-duty Diesel	0.009	0.040	1.043	0.010	3.707	0.432	0.477	0.029	0.000	5	0.000	0.000	0.000	0.000	0.000	0.000
Air Compressor	air compressors	4.342	48.182	29.004	0.079	1.207	1.207	3.409	0.091	1.207	5	0.217	2.409	1.450	0.004	0.060	0.060
Cleaning and Landscaping (Assume 4 people for 1 week and work s																	
Flat Bed Truck	Heavy-duty Diesel	0.009	0.040	1.043	0.010	3.707	0.432	0.477	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Pick-up Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
1-Ton Truck	Light-duty Truck	0.008	0.292	0.057	0.001	1.515	0.024	0.055	0.004	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Small Backhoe	Tractors/Loaders/Backhoes	0.701	11.264	6.368	0.016	0.234	0.219	0.716	0.074	0.234	6	0.140	2.253	1.274	0.003	0.047	0.044
Dump Truck	Heavy-duty Diesel	0.013	0.061	1.564	0.014	5.560	0.647	0.716	0.029	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.004	0.206	0.024	0.001	0.089	0.023	0.037	0.002	0.000	6	0.000	0.000	0.000	0.000	0.000	0.000
Other								0.000									
Material Haul Trucks	Heavy-duty Diesel	0.072	0.324	8.342	0.076	29.653	3.453	3.817	0.029	0.000	7	0.000	0.000	0.000	0.000	0.000	0.000
Inspector Vehicles	light-duty auto/truck	0.015	0.824	0.095	0.003	0.354	0.091	0.150	0.002	0.000	8	0.000	0.000	0.000	0.000	0.000	0.000

Table 10

PG&E Microwave Tower within PG&E Thurman Switching Station Construction Emissions

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
Overlapping Emissions	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2027						
Activities 1,2,3,7,8	0.851	8.836	6.802	0.023	0.264	0.248
Activities 1,4,7,8	0.743	8.902	6.208	0.017	0.242	0.229
Activities 1,5,6,8	0.656	7.756	5.455	0.015	0.205	0.195
Worst-Case Daily						
2026	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.851	8.902	6.802	0.023	0.264	0.248
2028	0.000	0.000	0.000	0.000	0.000	0.000
2029	0.000	0.000	0.000	0.000	0.000	0.000

NA = Parameter not required for computing emissions.

1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipmen	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions

Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	Volume (yd^3)	Weight (ton)	Emission Factors (lb/ton		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/unloaded	2026	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2027	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0	0.0

Note:

Material density (CalEEMod default, ton/cy)	1.264
Total amount of soil loaded/unloaded (cy):	0

Fugitive Dust emissions from Grading

Activity	Year	Area (acre)/	(miles/phas	Emission Factors		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	0	0.00	1.543	0.167	0.0	0.0
Grading	2027	0	0.00	1.543	0.167	0.0	0.0
Grading	2028	0	0.00	1.543	0.167	0.0	0.0
Grading	2029	0	0.00	1.543	0.167	0.0	0.0

Note:

VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)

VMT: vehicle miles traveled

As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)

Wb: blade width of the grader. CalEEMod default Wb = 12 ft.

Total acres to be graded (acres):	0

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric	Onsite DPM
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2	(lb/year)
2026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.023	0.267	0.245	0.001	0.291	0.037	116.227	13.527
2028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0.000

Table 11
PG&E 60 kV Lines Reconfiguration Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day	Months with Activities				Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								2026	2027	2028	2029	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
General Construction: Number of workers/union and non union. Average commute from Hotels to job site. Worker Avg 25 per day.																		
Pick-up Truck	Light-duty Truck	NA	NA	15	40	NA	25	0	1	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Worker Commutes	Light-duty Auto/Truck	NA	NA	15	40	NA	25	0	1	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Safety Inspection	Light-duty Auto/Truck	NA	NA	1	40	NA	25	0	1	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Water Truck	Heavy-duty Diesel	NA	NA	1	40	NA	50	0	1	1	0	0.014	0.061	1.577	0.014	5.604	0.653	######
Street Sweeper	Heavy-duty Diesel	NA	NA	1	40	NA	50	0	1	1	0	0.014	0.061	1.577	0.014	5.604	0.653	######
Removal and replacement of approx. (12) 60 kV Wood Poles - West end of Lockeford-Industrial																		
Auger Truck	Bore/Drill Rigs	221	0.5	1	15	8	NA	0	1	0	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
boom truck	Cranes	231	0.29	1	15	8	NA	0	1	0	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
bucket truck	Heavy-duty Diesel	NA	NA	1	15	NA	1	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	######
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	20	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	15	NA	15	0	1	0	0	0.014	0.061	1.577	0.014	5.604	0.653	######
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	15	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Restoration: (Crew size of 4)																		
Light-duty Truck	Light-duty Truck	NA	NA	2	5	NA	25	0	1	0	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Road Grader	Graders	187	0.41	1	5	6	25	0	1	0	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Backhoe and Trailer	Tractors/Loaders/Backhoes	97	0.37	1	5	6	NA	0	1	0	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Worker Commutes	Light-duty Auto/Truck	NA	NA	3	5	NA	25	0	1	0	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Replacement of approx. (1) 60 kV Wood Pole and reframing of 4 poles, reconfiguration outside of Industrial Sub, 2 new spans, topping north end of Industrial Tap																		
Auger Truck	Bore/Drill Rigs	221	0.5	1	15	8	NA	0	0	1	0	0.111	1.043	0.821	0.005	0.027	0.025	493.278
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	0	0	1	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
boom truck	Cranes	231	0.29	1	15	8	NA	0	0	1	0	0.219	1.685	1.863	0.005	0.075	0.069	494.393
bucket truck	Heavy-duty Diesel	NA	NA	1	15	NA	1	0	0	1	0	0.014	0.061	1.577	0.014	5.604	0.653	######
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	20	0	0	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	15	NA	15	0	0	1	0	0.014	0.061	1.577	0.014	5.604	0.653	######
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	15	NA	25	0	0	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Restoration: (Crew size of 4)																		
Light-duty Truck	Light-duty Truck	NA	NA	2	5	NA	25	0	0	1	0	0.029	1.061	0.208	0.004	5.496	0.088	440.471
Road Grader	Graders	187	0.41	1	5	6	NA	0	0	1	0	0.227	1.173	2.182	0.005	0.070	0.066	495.591
Backhoe and Trailer	Tractors/Loaders/Backhoes	97	0.37	1	5	6	NA	0	0	1	0	0.222	3.559	2.012	0.005	0.074	0.069	498.610
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	0	0	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Other																		
Material Haul Trucks	Heavy-duty Diesel	NA	NA	10	5	NA	75	0	0	1	0	0.014	0.061	1.577	0.014	5.604	0.653	######
General Construction at Lodi Substation																		
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	100	0	0	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	0	0	1	0	0.013	0.747	0.086	0.003	0.321	0.083	299.621

Table 11
PG&E 60 kV Lines Reconfiguration Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/phase)						Emissions (metric tons/phase)	Factors, (g/hp/hr) for equipment, g/mile for vehicles,	Onsite DPM Emissions (lb/phase)	Activity	Onsite Emissions (lbs/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	DPM	DPM		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
General Construction: Number of workers/union and non union. Ave																	
Pick-up Truck	Light-duty Truck	0.951	35.099	6.864	0.142	181.761	2.923	6.607	0.004	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.436	24.706	2.840	0.097	10.620	2.737	4.494	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Safety Inspection	Light-duty Auto/Truck	0.029	1.647	0.189	0.006	0.708	0.182	0.300	0.002	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Water Truck	Heavy-duty Diesel	0.060	0.270	6.952	0.063	24.711	2.877	3.181	0.029	0.126	1	0.001	0.007	0.174	0.002	0.618	0.072
Street Sweeper	Heavy-duty Diesel	0.060	0.270	6.952	0.063	24.711	2.877	3.181	0.029	0.000	1	0.000	0.000	0.000	0.000	0.000	0.000
Removal and replacement of approx. (12) 60 kV Wood Poles - West																	
Auger Truck	Bore/Drill Rigs	3.245	30.486	23.987	0.152	0.783	0.737	6.541	0.027	0.783	2	0.216	2.032	1.599	0.010	0.052	0.049
Backhoe/Front Loader	Tractors/Loaders/Backhoes	2.104	33.791	19.105	0.049	0.703	0.657	2.147	0.074	0.703	2	0.140	2.253	1.274	0.003	0.047	0.044
boom truck	Cranes	3.878	29.860	33.013	0.089	1.329	1.230	3.974	0.075	1.329	2	0.259	1.991	2.201	0.006	0.089	0.082
bucket truck	Heavy-duty Diesel	0.000	0.002	0.052	0.000	0.185	0.022	0.024	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.038	1.404	0.275	0.006	7.270	0.117	0.264	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	0.007	0.030	0.782	0.007	2.780	0.324	0.358	0.029	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.054	3.088	0.355	0.012	1.328	0.342	0.562	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Restoration: (Crew size of 4)																	
Light-duty Truck	Light-duty Truck	0.016	0.585	0.114	0.002	3.029	0.049	0.110	0.004	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Road Grader	Graders	1.152	5.947	11.064	0.026	0.357	0.333	1.140	0.070	0.357	2	0.230	1.189	2.213	0.005	0.071	0.067
Backhoe and Trailer	Tractors/Loaders/Backhoes	0.526	8.448	4.776	0.012	0.176	0.164	0.537	0.074	0.176	2	0.105	1.690	0.955	0.002	0.035	0.033
Worker Commutes	Light-duty Auto/Truck	0.011	0.618	0.071	0.002	0.266	0.068	0.112	0.002	0.000	2	0.000	0.000	0.000	0.000	0.000	0.000
Replacement of approx. (1) 60 kV Wood Pole and reframing of 4 pol																	
Auger Truck	Bore/Drill Rigs	3.245	30.486	23.987	0.152	0.783	0.737	6.541	0.027	0.783	3	0.216	2.032	1.599	0.010	0.052	0.049
Backhoe/Front Loader	Tractors/Loaders/Backhoes	2.104	33.791	19.105	0.049	0.703	0.657	2.147	0.074	0.703	3	0.140	2.253	1.274	0.003	0.047	0.044
boom truck	Cranes	3.878	29.860	33.013	0.089	1.329	1.230	3.974	0.075	1.329	3	0.259	1.991	2.201	0.006	0.089	0.082
bucket truck	Heavy-duty Diesel	0.000	0.002	0.052	0.000	0.185	0.022	0.024	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.038	1.404	0.275	0.006	7.270	0.117	0.264	0.004	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	0.007	0.030	0.782	0.007	2.780	0.324	0.358	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.054	3.088	0.355	0.012	1.328	0.342	0.562	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Restoration: (Crew size of 4)																	
Light-duty Truck	Light-duty Truck	0.016	0.585	0.114	0.002	3.029	0.049	0.110	0.004	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Road Grader	Graders	1.152	5.947	11.064	0.026	0.357	0.333	1.140	0.070	0.357	3	0.230	1.189	2.213	0.005	0.071	0.067
Backhoe and Trailer	Tractors/Loaders/Backhoes	0.526	8.448	4.776	0.012	0.176	0.164	0.537	0.074	0.176	3	0.105	1.690	0.955	0.002	0.035	0.033
Worker Commutes	Light-duty Auto/Truck	0.015	0.824	0.095	0.003	0.354	0.091	0.150	0.002	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
Other																	
Material Haul Trucks	Heavy-duty Diesel	0.112	0.506	13.035	0.119	46.333	5.395	5.964	0.029	0.000	3	0.000	0.000	0.000	0.000	0.000	0.000
General Construction at Lodi Substation																	
Mechanics Truck	Light-duty Auto/Truck	0.174	9.882	1.136	0.039	4.248	1.095	1.798	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000
Worker Commutes	Light-duty Auto/Truck	0.044	2.471	0.284	0.010	1.062	0.274	0.449	0.002	0.000	4	0.000	0.000	0.000	0.000	0.000	0.000

Table 11
PG&E 60 kV Lines Reconfiguration Construction Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

	ROG	CO	NOx	SOx	PM_{10} [d]	$PM_{2.5}$ [d]
Overlapping Emissions						
2027						
Activities 1,2	0.952	9.161	8.415	0.029	0.912	0.346
2028						
Activities 1,3,4	0.952	9.161	8.415	0.029	0.912	0.346
Worst-Case Daily						
2026	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.952	9.161	8.415	0.029	0.912	0.346
2028	0.952	9.161	8.415	0.029	0.912	0.346
2029	0.000	0.000	0.000	0.000	0.000	0.000

Notes:
NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipment	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Earthmoving Emissions

Fugitive Dust emissions from Truck Dumping/Loading activities:

Activity	Year	Volume (yd^3)	Weight (ton)	Emission Factors (lb/ton)		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Soil Loaded/unloaded	2026	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2027	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2028	0	0	0.000041	0.000006	0.0	0.0
Soil Loaded/unloaded	2029	0	0	0.000041	0.000006	0.0	0.0

Note:
Material density (CalEEMod default, ton/cy) 1.264
Total amount of soil loaded/unloaded (cy): 0 (assumed to be split between 2025 and 2026.

Fugitive Dust emissions from Grading

Activity	Year	Area (acre	(miles/phase)	Emission Factors (lb/VMT)		Emissions (lb/phase)	
				PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
Grading	2026	0	0.00	1.543	0.167	0.0	0.0
	2027	1	0.52	1.543	0.167	0.8	0.1
Grading	2028	0	0.00	1.543	0.167	0.0	0.0
Grading	2029	0	0.00	1.543	0.167	0.0	0.0

Note:
VMT = As / Wb X 43,560 (sqft/acre) /5280 (ft/mile)
VMT: vehicle miles traveled
As: the acreage of the grading site (0.5 acres per grader, 1 acre for scraper, CalEEMod defaults)
Wb: blade width of the grader. CalEEMod default Wb = 12 ft.
Total acres to be graded (acres): 0.75

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric tons/year)	Onsite DPM (lb/year)
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2	
2026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	0.006	0.073	0.053	0.000	0.070	0.005	24.651	3.411
2028	0.006	0.079	0.060	0.000	0.096	0.008	32.900	3.411
2029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 12
LEU Construciton Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Annual Construction Emissions (Total)

	Annual Emissions (ton/year)					
Construction Phase	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
Construction Year 2026	0.00	0.00	0.00	0.00	0.00	0.00
Construction Year 2027	0.20	1.37	1.45	0.01	1.30	0.26
Construction Year 2028	0.01	0.10	0.12	0.00	0.00	0.00
Construction Year 2029	0.00	0.00	0.00	0.00	0.00	0.00

Onsite DPM Emissions

				DPM
Construction Phases	**Start**	**End**	**Year**	**ton/year**
Survey	2027/02/01	2027/02/26	2027	1.05E-03
Access Roads	2027/03/01	2027/03/26	2027	3.04E-03
Site Preparation	2027/03/01	2027/03/26	2027	0.0112
Underground 12 kV Line Installation	2027/03/01	2027/03/12	2027	1.49E-03
Fence and Gate Installation	2027/04/01	2027/05/10	2027	4.06E-03
Foundation	2027/05/01	2027/06/27	2027	9.39E-03
Ground/Grid Circuit Installation	2027/06/01	2027/07/26	2027	3.99E-03
Transformer Installation	2027/07/01	2027/08/25	2027	7.89E-03
Steel/Bus Erection	2027/07/01	2027/08/25	2027	2.57E-03
Yard Rock Installation	2027/09/01	2027/09/28	2027	1.32E-03
Cleaning and Restoration 1	2027/10/01	2027/10/14	2027	9.10E-04
Remaining Deliveries, Installations, Testing and Commissioning 1	2027/11/01	2027/12/24	2027	5.31E-03
Cleaning and Restoration 2	2028/02/01	2028/02/14	2028	1.77E-03
Remaining Deliveries, Installations, Testing and Commissioning 2	2028/02/01	2028/02/28	2028	2.65E-03
			Total 2027 Emissions	5.22E-02
			Total 2028 Emissions	4.42E-03

Table 12

LEU Construciton Emissions

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Onsite Daily Emissions

			Phase Number	Onsite Daily Emissions (lb/day)					
				ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
Survey	2027/02/01	2027/02/26	1	0.4901	3.2687	2.9409	0.0136	0.1051	0.0967
Access Roads	2027/03/01	2027/03/26	2	1.323	8.7447	8.6699	0.0365	0.3039	0.2796
Site Preparation	2027/03/01	2027/03/26	3	3.8054	26.0621	29.1367	0.0924	9.3202	5.505
Underground 12 kV Line Installation	2027/03/01	2027/03/12	4	0.8826	6.7224	6.5475	0.0232	0.2981	0.2742
Fence and Gate Installation	2027/04/01	2027/05/10	5	1.2978	9.8858	8.3156	0.0365	0.2898	0.2666
Foundation	2027/05/01	2027/06/27	6	1.3677	8.3465	11.6893	0.0314	0.4696	0.4321
Ground/Grid Circuit Installation	2027/06/01	2027/07/26	7	0.4805	3.5608	3.6779	9.32E-03	0.1996	0.1836
Transformer Installation	2027/07/01	2027/08/25	8	1.6062	10.7247	10.8868	0.0406	0.3947	0.3656
Steel/Bus Erection	2027/07/01	2027/08/25	9	0.593	4.603	3.7956	0.017	0.1284	0.1181
Yard Rock Installation	2027/09/01	2027/09/28	10	0.5628	4.9828	3.9042	0.0162	0.1322	0.1216
Cleaning and Restoration 1	2027/10/01	2027/10/14	11	0.6498	3.9336	5.457	0.0164	0.1828	0.1682
Remaining Deliveries, Installations, Testing and Commissioning 1	2027/11/01	2027/12/24	12	0.9952	7.0236	7.1777	0.0259	0.2653	0.2441
Cleaning and Restoration 2	2028/02/01	2028/02/14	13	0.9644	5.0782	9.0364	0.0182	0.3536	0.3253
Remaining Deliveries, Installations, Testing and Commissioning 2	2028/02/01	2028/02/28	14	0.9952	7.0236	7.1777	0.0259	0.2653	0.2441

Maximum Onsite Daily Emissions

	Onsite Daily Emissions (lb/day)					
Overlapping Phases	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**
1	0.4901	3.2687	2.9409	0.0136	0.1051	0.0967
2,3,4	6.011	41.5292	44.3541	0.1521	9.9222	6.0588
5,6	2.6655	18.2323	20.0049	0.0679	0.7594	0.6987
6,7	1.8482	11.9073	15.3672	0.04072	0.6692	0.6157
7,8,9	2.6797	18.8885	18.3603	0.06692	0.7227	0.6673
10	0.5628	4.9828	3.9042	0.0162	0.1322	0.1216
11	0.6498	3.9336	5.457	0.0164	0.1828	0.1682
12	0.9952	7.0236	7.1777	0.0259	0.2653	0.2441
13,14	1.9596	12.1018	16.2141	0.0441	0.6189	0.5694
Max. daily emissions 2027	6.011	41.5292	44.3541	0.1521	9.9222	6.0588
Max. daily emissions 2028	1.9596	12.1018	16.2141	0.0441	0.6189	0.5694

Table 13

Overlappying Emissions for PG&E Sites Near Thurman Station

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Phase	2026						2027											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
PG&E 12 kV Service Line Extension to PG&E Thurman Switching Station																		
Specialized communications contractor												A_1	A_1					
Inspectors												A_2	A_2					
PG&E Thurman Switching Station																		
General Construction NTP by CPUC					B_1													
Civil Site Preparation						B_2												
Structure Foundations, Excavation, and Installation							B_3_4	B_3_4										
Equipment Foundations							B_3_4	B_3_4										
Structure Delivery and Setup									B_5									
Equipment Installation										B_6	B_6	B_6						
Dress/Test/Wire Equipment													B_7	B_7				
Exterior Walls, Final Grading, and Paving															B_8			
Cleaning and Landscaping															B_9			
Truck Drivers						B_10	B_10	B_10	B_10				B_10	B_10	B_10			
Inspectors					B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11			
PG&E Microwave Tower within Thurman Switching Station																		
General Construction										C_1	C_1	C_1	C_1					
Tower Foundation Installation										C_2								
Structure Delivery and Set Up										C_3								
Tower Installation											C_4							
Communication Equipment Installation & Testing												C_5	C_5					
Cleaning and Landscaping													C_6					
Truck Drivers										C_7	C_7							
Inspectors										C_8	C_8	C_8	C_8					

Overlapping Activities 2026	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
B_1, B_11	0.001	0.007	0.174	0.002	0.618	0.072
B-2, B_10, B_11	2.867	28.263	26.160	0.053	1.105	1.037
Worst-case 2026	2.867	28.263	26.160	0.053	1.105	1.037

Overlapping Activities 2027	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
(B_3_4, B_10, B_11)	1.252	13.906	10.056	0.032	0.388	0.372
(B_5, B_10, B_11)	0.000	0.000	0.000	0.000	0.000	0.000
(B_6, B_11), C_1, C_2, C_3, C_7, C_8),	1.798	21.712	14.968	0.046	0.565	0.539
(B_6, B_11), (C_1, C_4, C_7, C_8),	1.690	21.777	14.374	0.039	0.543	0.519
(A_1, A_2), (B_6, B_11), (C_1, C_5, C_8),	3.776	45.123	31.955	0.096	1.937	1.232
(A_1, A_2), (B_7, B_10, B_11), (C_1, C_5,C_6, C_8),	4.211	49.044	35.757	0.106	2.097	1.379
(B_8, B_9, B_10, B_11),	3.621	33.687	33.334	0.070	1.342	1.258
Worst-case 2027	4.211	49.044	35.757	0.106	2.097	1.379

Table 14

Overlapping Emissions for PG&E and LEU Sites Near Thurman Station

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Phase	2026						2027												2028											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
PG&E 12 kV Service Line Extension to PG&E Thurman Switching Station																														
Specialized communications contractor												A_1	A_1																	
Inspectors																														
PG&E Thurman Switching Station																														
General Construction NTP by CPUC					B_1																									
Civil Site Preparation						B_2																								
Structure Foundations, Excavation, and Installation							B_3_4	B_3_4																						
Equipment Foundations							B_3_4	B_3_4																						
Structure Delivery and Setup									B_5																					
Equipment Installation										B_6	B_6	B_6																		
Dress/Test/Wire Equipment													B_7	B_7																
Exterior Walls, Final Grading, and Paving															B_8															
Cleaning and Landscaping															B_9															
Truck Drivers						B_10	B_10	B_10	B_10				B_10	B_10	B_10															
Inspectors					B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11	B_11															
PG&E Microwave Tower within Thurman Switching Station																														
General Construction										C_1	C_1	C_1	C_1																	
Tower Foundation Installation										C_2																				
Structure Delivery and Set Up										C_3																				
Tower Installation											C_4																			
Communication Equipment Installation & Testing												C_5	C_5																	
Cleaning and Landscaping													C_6																	
Truck Drivers										C_7	C_7																			
Inspectors										C_8	C_8	C_8	C_8																	
LEU Construction																														
Survey								D_1																						
Access Roads									D_2																					
Site Preparation									D_3																					
Underground 12 kV Line Installation									D_4																					
Fence and Gate Installation										D_5	D_5																			
Foundation											D_6	D_6																		
Ground/Grid Circuit Installation												D_7	D_7																	
Transformer Installation													D_8	D_8																
Steel/Bus Erection													D_9	D_9																
Yard Rock Installation															D_10															
Cleaning and Restoration 1																D_11														
Remaining Deliveries, Installations, Testing and Commissioning 1																	D_12	D_12												
Cleaning and Restoration 2																				D_13										
Remaining Deliveries, Installations, Testing and Commissioning 2																				D_14										

Overlapping Activities 2026	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
B_1, B_11	0.001	0.007	0.174	0.002	0.618	0.072
B-2, B_10, B_11	2.867	28.263	26.160	0.053	1.105	1.037
Worst-case 2026	2.867	28.263	26.160	0.053	1.105	1.037

Overlapping Activities 2027	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
(B_3_4, B_10, B_11), (D_1)	1.742	17.175	12.997	0.046	0.493	0.469
(B_5, B_10, B_11), (D-2, D_3, D_4)	6.011	41.529	44.354	0.152	9.922	6.059
(B_6, B_11), C_1, C_2, C_3, C_7, C_8), D_5	3.096	31.597	23.284	0.082	0.855	0.805
(B_6, B_11), (C_1, C_4, C_7, C_8), (D_5, D_6)	4.356	40.009	34.378	0.107	1.302	1.218
(A_1, A_2), (B_6, B_11), (C_1, C_5, C_8), (D_6, D_7)	5.624	57.030	47.322	0.137	2.606	1.848
, A_2), (B_7, B_10, B_11), (C_1, C_5,C_6, C_8), (D_7, D_8, D_9))	6.890	67.932	54.118	0.173	2.820	2.046
(B_8, B_9, B_10, B_11), (D_10)	4.184	38.670	37.238	0.087	1.475	1.380
D_11	0.650	3.934	5.457	0.016	0.183	0.168
D_12	0.995	7.024	7.178	0.026	0.265	0.244
Worst-case 2027	6.890	67.932	54.118	0.173	9.922	6.059

Overlapping Activities 2028	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
(D_13, D_14)	1.9596	12.1018	16.2141	0.0441	0.6189	0.5694

Table 15
PG&E Operation and Maintenance Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day	Emission factors (g/hp/hr) for equipment, g/mile for vehicles, lb/hr for Helicopter						
								ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
New 230kV Transmission Lines O&M (72 Structures)														
Detailed Ground and Aerial	Light-duty Auto/Truck	NA	NA	1	15	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Hughes 500 Helicopter	Helicopter	NA	NA	1	1	8	NA	4.010	5.330	1.950	0.290	0.060	0.060	424.200
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	15	NA	80	0.012	0.052	1.445	0.013	0.444	0.139	1479.459
Light-duty Auto/Truck	Light-duty Auto/Truck	NA	NA	1	1	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	75	0.012	0.052	1.445	0.013	0.444	0.139	1479.459
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	0.272	3.705	1.624	0.006	0.030	0.030	568.899
Boom truck	Cranes	231	0.29	1	5	8	NA	0.222	1.090	0.697	0.005	0.023	0.023	568.799
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	1	5	NA	75	0.018	0.820	0.126	0.004	0.330	0.086	387.997
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	5	NA	75	0.012	0.052	1.445	0.013	0.444	0.139	1479.459
New Thurman Switching Station O&M														
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Yearly Inspections/Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	24	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	24	NA	50	0.012	0.052	1.445	0.013	0.444	0.139	1479.459
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Lockeford Substation O&M (if applicable) substation equipment maintenance requirements.														
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Yearly Inspections/Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	24	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	24	NA	50	0.012	0.052	1.445	0.013	0.444	0.139	1479.459
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	0.009	0.608	0.056	0.003	0.320	0.082	270.292

Notes:
NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6	g
1 metric ton =	1,000,000	g
1 ton =	2,000	lbs
1 yd^3 =	1.2641662	tons
Blade width of grading equipment =	12	ft
1 acre =	43,560	ft^2
1 mile =	5,280	ft

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad travel.

Table 15
PG&E Operation and Maintenance Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Equipment / Vehicle List	Equipment / Vehicle Type	Emissions (lbs/year)						Emissions (metric tons/year)	Onsite Emissions (lb/day)					
		ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
New 230kV Transmission Lines O&M (72 Structures)														
Detailed Ground and Aerial	Light-duty Auto/Truck	0.014	1.006	0.093	0.004	0.529	0.136	0.203	0.001	0.067	0.006	0.000	0.035	0.009
Hughes 500 Helicopter	Helicopter	32.080	42.640	15.600	2.320	0.480	0.480	1.539	32.080	42.640	15.600	2.320	0.480	0.480
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	0.033	0.138	3.824	0.035	1.174	0.367	1.775	0.002	0.009	0.255	0.002	0.078	0.024
Light-duty Auto/Truck	Light-duty Auto/Truck	0.001	0.067	0.006	0.000	0.035	0.009	0.014	0.001	0.067	0.006	0.000	0.035	0.009
10-Cu Dump Truck	Heavy-duty Diesel	0.010	0.043	1.195	0.011	0.367	0.115	0.555	0.002	0.009	0.239	0.002	0.073	0.023
Backhoe/Front Loader	Tractors/Loaders/Backhoes	0.861	11.726	5.140	0.019	0.095	0.095	0.817	0.172	2.345	1.028	0.004	0.019	0.019
Boom truck	Cranes	1.311	6.439	4.117	0.030	0.136	0.136	1.524	0.262	1.288	0.823	0.006	0.027	0.027
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	0.015	0.678	0.104	0.003	0.273	0.071	0.145	0.003	0.136	0.021	0.001	0.055	0.014
Lowboy Truck/Trailer	Heavy-duty Diesel	0.010	0.043	1.195	0.011	0.367	0.115	0.555	0.002	0.009	0.239	0.002	0.073	0.023
New Thurman Switching Station O&M														
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	0.012	0.804	0.074	0.004	0.423	0.109	0.162	0.001	0.067	0.006	0.000	0.035	0.009
Yearly Inspections/Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	0.023	1.609	0.148	0.007	0.847	0.217	0.324	0.001	0.067	0.006	0.000	0.035	0.009
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	0.033	0.138	3.824	0.035	1.174	0.367	1.775	0.001	0.006	0.159	0.001	0.049	0.015
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	0.012	0.804	0.074	0.004	0.423	0.109	0.162	0.001	0.067	0.006	0.000	0.035	0.009
Lockeford Substation O&M (if applicable) substation equipment maintenance requirements.														
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	0.012	0.804	0.074	0.004	0.423	0.109	0.162	0.001	0.067	0.006	0.000	0.035	0.009
Yearly Inspections/Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	0.023	1.609	0.148	0.007	0.847	0.217	0.324	0.001	0.067	0.006	0.000	0.035	0.009
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	0.033	0.138	3.824	0.035	1.174	0.367	1.775	0.001	0.006	0.159	0.001	0.049	0.015
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	0.012	0.804	0.074	0.004	0.423	0.109	0.162	0.001	0.067	0.006	0.000	0.035	0.009

Notes:
NA = Parameter not required for computing emissions.
1. Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
2. Helicopter operation assumes 1 LTO/hr, medium lift helicopters
3. The following conversion factors were used to estimate emissions:

1 lb =	453.6
1 metric ton =	1,000,000
1 ton =	2,000
1 yd^3 =	1.2641662
Blade width of grading equipment =	12
1 acre =	43,560
1 mile =	5,280

4. PM_{10} and $PM_{2.5}$ emissions include paved road fugitive dust emissions associated with onroad tr

Table 15
PG&E Operation and Maintenance Emissions
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Emissions

Annual Emissions Summary

Year	Emissions (ton/year)						Emissions (metric tons/year)
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
2030 and beyond	0.017	0.035	0.020	0.001	0.005	0.0016	11.9750

Maximum Daily Emissions

Year	Emissions (lb/day)					
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$
2030 and beyond	32.534	46.983	18.573	2.342	1.186	0.714

Note:
Daily emissions are worst-case scenario assuming all O&M activities would occur during the same day.

Table 16

PG&E and LEU GHG Emissions from SF6 Containing Breakers

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Location	Number of Circuit Breakers	SF_6 Capacity per Breaker (lbs)	Leakage Rate [a]	SF_6 Emissions per Circuit Breaker (lb/year)	Total SF_6 Emissions (lb/year)	Total SF_6 Emissions (tons/year)	CO_2e Emissions[b] (tons/year)	CO_2e Emissions[b] (metric tons/year)
PG&E Lockeford Substation	8	155	0.50%	0.775	6.2	3.10E-03	70.68	64.14
PG&E Thurman Switching Station	2	155	0.50%	0.775	1.55	7.75E-04	17.67	16.03
LEU Guild Substation[c]	3	186	0.50%	0.930	2.79	1.40E-03	31.81	28.86
PG&E Total GHG							88.35	80.17
PG&E and LEU Total GHG							120.16	109.03

Notes:

a. It was conservatively assumed that the leakage rate would be 0.5 percent.

b. SF6 Global Warming Potential (40 CFR 98 Subpart A): 22,800

c. LEU Guild Substation is expected to have 2 circuit breakers and one spare filler tank which would have the equivalent volume of SF_6.

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Table 17

PG&E Fugitive Dust Emission Factors

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Fugitive Dust Emission Factors for Truck Dumping/Loading

Truck Dumping on a Pile or Loading to a Truck from a Pile

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U [b]	2.7	2.7
M [a]	12.0	12.0
Emission Factor (lb/ton) [c]	0.00004	0.000006

Notes:

[a] k and M taken from Section 4.3 of Appendix A of the *CalEEMod User's Guide* (Environ, 2021).

[b] U taken as the CalEEMod default for the San Joaquin Valley Air Basin. Value converted from units of m/s to mph.

[c] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the *CalEEMod User's Guide* (BREEZE, 2021):

Emission Factor (lb/ton) = $k \times 0.0032 \times [U\ (mph) / 5]^{1.3} / [M\ (\%) / 2]^{1.4}$

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lb/VMT) [b]	1.543	0.167
Reduction from Applying Soil Stabilizers [c]	0%	0%
Emission Factor (Controlled, lb/VMT)	1.543	0.167

Notes:

[a] S and F taken from Section 4.3 of Appendix A of the *CalEEMod User's Guide* (Environ, 2021).

[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the *CalEEMod User's Guide* (BREEZE 2021):

PM_{10} Emission Factor (lb/VMT) = $0.051 \times [S\ (mph)]^{2.0} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lb/VMT) = $0.04 \times [S\ (mph)]^{2.5} \times F_{PM2.5}$

Fugitive Dust Emissions from Paved and Unpaved Roads

Included in vehicle emissions - see Table 15 for details.

Table 18
PG&E Construction Equipment Emission Factors
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Phase

OFFROAD Equipment Category	Horsepower	Load Factor	Year	Emission Factors (g/bhp-hr)								
				ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	CO_2	CH4
Aerial Lifts	63	0.31	2026	0.117	3.204	1.540	0.005	0.028	0.026	494.496	491.351	0.126
Air Compressors	78	0.48	2026	0.329	3.648	2.196	0.006	0.091	0.091	569.034	568.299	0.029
Bore/Drill Rigs	221	0.50	2026	0.111	1.043	0.821	0.005	0.027	0.025	493.278	490.183	0.124
Cement and Mortar Mixers	9	0.56	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Concrete/Industrial Saws	81	0.73	2026	0.271	3.492	2.074	0.006	0.078	0.078	568.895	568.300	0.024
Cranes	231	0.29	2026	0.219	1.685	1.863	0.005	0.075	0.069	494.393	491.233	0.126
Crawler Tractors	212	0.43	2026	0.238	1.288	2.190	0.005	0.085	0.078	494.133	490.958	0.127
Crushing/Proc. Equipment	85	0.78	2026	0.330	3.690	2.140	0.006	0.084	0.084	569.039	568.299	0.030
Dumpers/Tenders	16	0.38	2026	0.685	2.339	4.332	0.007	0.161	0.161	569.824	568.299	0.061
Excavators	158	0.38	2026	0.169	3.135	1.028	0.005	0.050	0.046	494.812	491.657	0.126
Forklifts	89	0.20	2026	0.278	3.649	2.397	0.005	0.116	0.107	494.068	490.883	0.127
Generator Sets	84	0.74	2026	0.230	3.334	2.077	0.006	0.076	0.076	568.799	568.299	0.020
Graders	187	0.41	2026	0.227	1.173	2.182	0.005	0.070	0.066	495.591	492.436	0.126
Off-Highway Tractors	124	0.44	2026	0.215	3.201	1.462	0.005	0.073	0.068	495.526	492.301	0.129
Off-Highway Trucks	402	0.38	2026	0.185	1.167	0.943	0.005	0.034	0.031	496.811	493.636	0.127
Other Construction Equipment	172	0.42	2026	0.220	3.135	1.826	0.005	0.093	0.086	492.644	489.534	0.124
Other General Industrial Equipment	88	0.34	2026	0.267	3.650	2.304	0.005	0.103	0.096	492.835	489.660	0.127
Other Material Handling Equipment	168	0.40	2026	0.195	3.203	1.245	0.005	0.063	0.059	494.590	491.435	0.126
Pavers	130	0.42	2026	0.204	3.071	1.600	0.005	0.076	0.072	494.843	491.648	0.128
Paving Equipment	132	0.36	2026	0.198	3.092	1.480	0.005	0.074	0.069	493.217	490.047	0.127
Plate Compactors	8	0.43	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Pressure Washers	13	0.30	2026	0.604	3.487	4.248	0.008	0.176	0.176	569.644	568.299	0.054
Pumps	84	0.74	2026	0.247	3.385	2.103	0.006	0.081	0.081	568.844	568.299	0.022
Rollers	80	0.38	2026	0.264	3.483	2.543	0.005	0.121	0.113	495.936	492.741	0.128
Rough Terrain Forklifts	100	0.40	2026	0.165	3.337	1.791	0.005	0.048	0.044	495.274	492.089	0.127
Rubber Tired Dozers	247	0.40	2026	0.365	1.641	3.410	0.005	0.147	0.136	496.529	493.319	0.128
Rubber Tired Loaders	203	0.36	2026	0.184	1.141	1.285	0.005	0.043	0.040	492.687	489.557	0.125
Scrapers	367	0.48	2026	0.225	1.622	1.852	0.005	0.073	0.067	494.866	491.691	0.127
Signal Boards	6	0.82	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Skid Steer Loaders	65	0.37	2026	0.155	3.309	1.789	0.005	0.049	0.045	494.918	491.763	0.126
Surfacing Equipment	263	0.30	2026	0.136	1.141	1.209	0.005	0.046	0.043	493.001	489.886	0.125
Sweepers/Scrubbers	64	0.46	2026	0.295	3.672	2.568	0.005	0.133	0.122	496.127	492.952	0.127
Tractors/Loaders/Backhoes	97	0.37	2026	0.222	3.559	2.012	0.005	0.074	0.069	498.610	495.410	0.128
Trenchers	78	0.50	2026	0.447	3.736	3.935	0.005	0.254	0.236	497.641	494.381	0.130
Welders	46	0.45	2026	0.571	4.497	3.595	0.007	0.099	0.099	569.579	568.299	0.051

Notes:
Construction emission factors are based on year 2026.
Unless otherwise noted, Horsepower and Load Factors taken as the default, average values provided in Table 3.3 of Appendix D of the *CalEEMod User's Guide* (Environ, 2021).
Emission Factors in grams per brake-horsepower-hour (g/bhp-hr) taken as the defaults for the year 2024 provided in Table 3.4 of Appendix D of the *CalEEMod User's Guide* (Environ, 2021).

Table 18
PG&E Construction Equipment Emission Factors
PG&E: Northern San Joaquin 230 kV Transmission Project PEA
Operation and Maintenance Equipment

OFFROAD Equipment Category	Horsepower	Load Factor	Year	Emission Factors (g/bhp-hr)								
				ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	CO_2	CH4
Aerial Lifts	63	0.31	2030	0.188	3.352	1.657	0.006	0.036	0.036	568.724	568.299	0.017
Air Compressors	78	0.48	2030	0.264	3.630	1.729	0.006	0.041	0.041	568.874	568.299	0.023
Bore/Drill Rigs	221	0.50	2030	0.127	1.035	0.274	0.006	0.010	0.010	568.574	568.299	0.011
Cement and Mortar Mixers	9	0.56	2030	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Concrete/Industrial Saws	81	0.73	2030	0.221	3.480	1.667	0.006	0.036	0.036	568.774	568.299	0.019
Cranes	231	0.29	2030	0.222	1.090	0.697	0.005	0.023	0.023	568.799	568.299	0.020
Crawler Tractors	212	0.43	2030	0.262	1.207	1.104	0.006	0.040	0.040	568.874	568.299	0.023
Crushing/Proc. Equipment	85	0.78	2030	0.272	3.673	1.708	0.006	0.038	0.038	568.899	568.299	0.024
Dumpers/Tenders	16	0.38	2030	0.685	2.340	4.332	0.007	0.161	0.161	569.824	568.299	0.061
Excavators	158	0.38	2030	0.213	3.362	0.525	0.006	0.023	0.023	568.774	568.299	0.019
Forklifts	89	0.20	2030	0.283	3.799	1.555	0.006	0.021	0.021	568.924	568.299	0.025
Generator Sets	84	0.74	2030	0.178	3.316	1.645	0.006	0.034	0.034	568.699	568.299	0.016
Graders	187	0.41	2030	0.216	1.148	0.684	0.006	0.024	0.024	568.774	568.299	0.019
Off-Highway Tractors	124	0.44	2030	0.373	3.435	1.916	0.006	0.104	0.104	569.124	568.299	0.033
Off-Highway Trucks	402	0.38	2030	0.216	1.104	0.458	0.005	0.017	0.017	568.774	568.299	0.019
Other Construction Equipment	172	0.42	2030	0.161	3.127	0.459	0.006	0.019	0.019	568.649	568.299	0.014
Other General Industrial Equipment	88	0.34	2030	0.309	3.802	1.766	0.006	0.043	0.043	568.974	568.299	0.027
Other Material Handling Equipment	168	0.40	2030	0.220	3.341	0.640	0.006	0.028	0.028	568.774	568.299	0.019
Pavers	130	0.42	2030	0.300	3.326	1.425	0.006	0.074	0.074	568.974	568.299	0.027
Paving Equipment	132	0.36	2030	0.290	3.306	1.363	0.006	0.070	0.070	568.949	568.299	0.026
Plate Compactors	8	0.43	2030	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Pressure Washers	13	0.30	2030	0.592	3.470	4.164	0.008	0.166	0.166	569.625	568.300	0.053
Pumps	84	0.74	2030	0.193	3.367	1.662	0.006	0.036	0.036	568.724	568.299	0.017
Rollers	80	0.38	2030	0.299	3.639	1.950	0.006	0.066	0.066	568.974	568.299	0.027
Rough Terrain Forklifts	100	0.40	2030	0.279	3.725	1.671	0.006	0.034	0.034	568.924	568.299	0.025
Rubber Tired Dozers	247	0.40	2030	0.335	1.322	1.828	0.006	0.069	0.069	569.049	568.299	0.030
Rubber Tired Loaders	203	0.36	2030	0.210	1.138	0.655	0.006	0.022	0.022	568.749	568.299	0.018
Scrapers	367	0.48	2030	0.259	1.184	1.057	0.005	0.040	0.040	568.874	568.299	0.023
Signal Boards	6	0.82	2030	0.661	3.470	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Skid Steer Loaders	65	0.37	2030	0.214	3.538	1.477	0.006	0.017	0.017	568.774	568.299	0.019
Surfacing Equipment	263	0.30	2030	0.169	1.032	0.738	0.005	0.025	0.025	568.674	568.299	0.015
Sweepers/Scrubbers	64	0.46	2030	0.261	3.703	1.569	0.006	0.023	0.023	568.874	568.299	0.023
Tractors/Loaders/Backhoes	97	0.37	2030	0.272	3.705	1.624	0.006	0.030	0.030	568.899	568.299	0.024
Trenchers	78	0.50	2030	0.409	3.743	2.559	0.006	0.132	0.132	569.199	568.299	0.036
Welders	46	0.45	2030	0.449	4.387	3.273	0.007	0.045	0.045	569.299	568.299	0.040

Note:
1. CO2e were calculated using the following global warming potential (GWP, 100-year GWP from IPCC Fifth Assessment Report , 2014)

CO2	1
CH4	25
N2O	298

Table 19
PG&E Vehicle Emission Factors
PG&E: Northern San Joaquin 230 kV Transmission Project PEA
Construction Phase Emission Factors 2026:

	EMFAC2017 Emission Factors (g/mile) [a]							Paved Road Emission Factors (g/mile) [b]		Unpaved Road Emission Factors (g/mile) [b]		Total PM Emissions (g/mile)		Exhaust PM10 (g/mile)
Vehicle Class	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**	**CO_{2e}**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**DPM**
Light-duty Auto/Truck	0.013	0.747	0.086	0.003	0.021	0.008	299.621	0.300	0.075	258.442	25.789	0.321	0.083	0.0021
heavy-duty diesel	0.014	0.061	1.577	0.014	0.141	0.063	1,590.419	0.300	0.075	258.442	25.789	5.604	0.653	0.0286
light-duty truck	0.029	1.061	0.208	0.004	0.033	0.013	440.471	0.300	0.075	258.442	25.789	5.496	0.088	0.0044

Notes:

a. Vehicle Exhaust Emission Factors in grams per mile (g/mile) from EMFAC2021 for the San Joaquin Valley APCD, calendar year 2026.
b. Paved road emission factors calculated using CalEEMod methodology, as described below.
c. Total emission factors include fugitive emissions from paved and unpaved road

	Light-duty Auto/Truck	heavy-duty diesel	light-duty truck
VMT on paved road	100.0%	98.0%	98.0%
VMT on unpaved road	0.0%	2%	2%

Derivation of Paved Road Emission Factors

Parameter	**PM_{10}**	**$PM_{2.5}$**
Average Weight [a]	2.4	2.4
k [b]	1	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	**0.300**	**0.075**

$Eext = [\ k\ (sL)^{0.91}\ x\ (W)^{1.02}\ ]\ (1 - P/4N)$

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of *AP-42* (USEPA, 2011).

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of *AP-42* (USEPA, 2011), which is generally consistent with Section 5.3 of Appendix A of the *CalEEMod User's Guide* (BREEZE, 2021):

$$\text{Emission Factor (g/mile)} = k\ (\text{g/mile}) \times [\text{sL } (\text{g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Unpaved Road Emission Factors

	Emission Factors (lb/VMT)		Emission Factors (g/VMT)	
	PM10	PM2.5	PM10	PM2.5
Unpaved Road (uncontrolled)	1.266	0.126	574.32	57.31
Unpaved Road (with watering unpaved road twice a day)	0.57	0.057	258.44	25.79

Calculation Equation:

Emission factor (lb/VMT) = (k[(s/12)^a][(S/30)^d]/(M/0.5)^c-C)*(1-P/365) (CalEEMod and EPA AP-42, 13.2.2)

	PM10	PM2.5
k	1.8	0.18
s (silt content %)	8.5	8.5
S (mean vehicle speed)	40	40
M (moisture%)	0.5	0.5
a	1	1
c	0.2	0.2
d	0.5	0.5
C	0.00047	0.00036
P (number of days in a year with at least 0.01 inch of precipitation	51	51

Control efficiency of watering the unpaved road twice a day 55% (data from SCAQMD CEQA Handbook, TABLE XI-D, MITIGATION MEASURE EXAMPLES: FUGITIVE DUST FROM UNPAVED ROADs, 2007)

Operation and Maintenance Emission Factors: 2030

	Exhaust Emission Factors (g/mile) [a]							Paved Road Emission		Total PM Emissions (g/mile)		DPM (g/mile)
Vehicle Class	**ROG**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**	**CO_{2e}**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**DPM**
Light-duty Auto/Truck	0.009	0.608	0.056	0.003	0.020	0.007	270.292	0.300	0.075	0.320	0.082	0.0015
heavy-duty diesel	0.012	0.052	1.445	0.013	0.143	0.064	1,479.459	0.300	0.075	0.444	0.139	0.0282
light-duty truck	0.018	0.820	0.126	0.004	0.030	0.011	387.997	0.300	0.075	0.330	0.086	0.0030

Note
a. Vehicle Exhaust Emission Factors in grams per mile (g/mile) from EMFAC2021 for the San Joaquin Valley APCD, calendar year 2030
'ehicles are assumed to travel on paved roads during operation.

Table 20

PG&E Aircraft Emission Factors

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Aircraft Type	Emission Factors (lbs/LTO) [a]						
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e
Twin Medium	4.010	5.330	1.950	0.290	0.060	0.060	424.200

Notes:

[a] Emission Factors in pounds per Landing and Take-off (lbs/LTO) found in Table 6-12 of the *Year 2011 Gulfwide Emission Inventory Study* , which was prepared by the U.S. Department of the Interior, Bureau of Ocean Energy Management (BOEM), Gulf of Mexico OCS Region (BOEM, 2014). The source of the Table 6-12 emission factors is Swiss Federal Office of Civil Aviation (FOCA). 2009. Guidance on Determination of Helicopter Emissions

Appendix B1b
Construction Emissions Calculations for LEU Sites

Lodi Substation - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Lodi Substation

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	132.64	1000sqft	4.60	132,640.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2028
Utility Company					
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific info

Land Use - 4.6 acres of disturbed area per grading plan

Construction Phase - Project-specific timeline.

Off-road Equipment - Project-specific Information.

Off-road Equipment -

Off-road Equipment - Project-specific info

Off-road Equipment - Project-specific

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific equipment list used in lieu of CalEEMod defaults.

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific value

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific info

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Project-specific information

Trips and VMT - Project-specific worker trips

On-road Fugitive Dust - Only a small portion of the construction access road surfaces surrounding the project will be unpaved, therefore 98% pavement is assumed.

Grading - Site-specific area.

Vehicle Trips - Unmanned operation and no daily worker trips will occur

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project.

Landscape Equipment -

Energy Use -

Water And Wastewater - Unmanned facility - no water use is expected

Solid Waste - Unmanned facility - no solid waste generation is expected

Construction Off-road Equipment Mitigation - Tier 3 compliant engines are assumed for the project

Watering of exposed areas is assumed

Operational Off-Road Equipment - Assumes monthly inspection utilizing one off-highway truck 4 hours per day.

Fleet Mix -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Lodi Substation - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	18.00	40.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	28.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	20.00
tblGrading	AcresOfGrading	120.00	3.04
tblLandUse	LandUseSquareFeet	132,640.00	132,640.20
tblLandUse	LotAcreage	3.04	4.60
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	LoadFactor	0.38	0.44
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Survey
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Transformer Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblOnRoadDust	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1

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Table Name	Column Name	Default Value	New Value
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	164.47	0.00

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Table Name	Column Name	Default Value	New Value
tblTripsAndVMT	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblTripsAndVMT	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	30.00
tblTripsAndVMT	WorkerTripNumber	56.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	16.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.00
tblWater	IndoorWaterUseRate	30,673,000.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.1959	1.4521	1.3746	5.2800e-003	1.2438	0.0528	1.2966	0.2110	0.0487	0.2597	0.0000	466.5651	466.5651	0.1351	5.3900e-003	471.5493
2028	0.0148	0.1170	0.0956	3.5000e-004	0.0000	4.4200e-003	4.4200e-003	0.0000	4.0700e-003	4.0700e-003	0.0000	30.7464	30.7464	9.9400e-003	0.0000	30.9950
Maximum	**0.1959**	**1.4521**	**1.3746**	**5.2800e-003**	**1.2438**	**0.0528**	**1.2966**	**0.2110**	**0.0487**	**0.2597**	**0.0000**	**466.5651**	**466.5651**	**0.1351**	**5.3900e-003**	**471.5493**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.1959	1.4521	1.3746	5.2800e-003	1.1435	0.0528	1.1963	0.1563	0.0487	0.2050	0.0000	466.5646	466.5646	0.1351	5.3900e-003	471.5488
2028	0.0148	0.1170	0.0956	3.5000e-004	0.0000	4.4200e-003	4.4200e-003	0.0000	4.0700e-003	4.0700e-003	0.0000	30.7464	30.7464	9.9400e-003	0.0000	30.9950
Maximum	**0.1959**	**1.4521**	**1.3746**	**5.2800e-003**	**1.1435**	**0.0528**	**1.1963**	**0.1563**	**0.0487**	**0.2050**	**0.0000**	**466.5646**	**466.5646**	**0.1351**	**5.3900e-003**	**471.5488**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**8.06**	**0.00**	**7.71**	**25.93**	**0.00**	**20.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-1-2027**	**5-31-2027**	0.7152	0.7152
2	**6-1-2027**	**8-31-2027**	0.6063	0.6063
3	**9-1-2027**	**11-30-2027**	0.1804	0.1804
4	**12-1-2027**	**2-29-2028**	0.2113	0.2113
		Highest	0.7152	0.7152

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5181	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003
Energy	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	450.0892	450.0892	0.0170	5.3800e-003	452.1171
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	1.4300e-003	8.6000e-003	9.5600e-003	4.0000e-005		3.1000e-004	3.1000e-004		2.8000e-004	2.8000e-004	0.0000	3.4827	3.4827	1.1300e-003	0.0000	3.5109
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.5328**	**0.1286**	**0.1116**	**7.6000e-004**	**0.0000**	**9.4300e-003**	**9.4300e-003**	**0.0000**	**9.4000e-003**	**9.4000e-003**	**0.0000**	**453.5743**	**453.5743**	**0.0181**	**5.3800e-003**	**455.6305**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5181	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003
Energy	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	450.0892	450.0892	0.0170	5.3800e-003	452.1171
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	1.4300e-003	8.6000e-003	9.5600e-003	4.0000e-005		3.1000e-004	3.1000e-004		2.8000e-004	2.8000e-004	0.0000	3.4827	3.4827	1.1300e-003	0.0000	3.5109
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.5328**	**0.1286**	**0.1116**	**7.6000e-004**	**0.0000**	**9.4300e-003**	**9.4300e-003**	**0.0000**	**9.4000e-003**	**9.4000e-003**	**0.0000**	**453.5743**	**453.5743**	**0.0181**	**5.3800e-003**	**455.6305**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey	Site Preparation	2/1/2027	2/26/2027	5	20	
2	Access Roads	Site Preparation	3/1/2027	3/26/2027	5	20	
3	Site Preparation	Site Preparation	3/1/2027	3/26/2027	5	20	
4	Underground 12 kV Line Installation	Trenching	3/1/2027	3/12/2027	5	10	
5	Fence and Gate Installation	Site Preparation	4/1/2027	5/10/2027	5	28	
6	Foundation	Paving	5/1/2027	6/27/2027	5	40	
7	Ground/Grid Circuit Installation	Building Construction	6/1/2027	7/26/2027	5	40	
8	Transformer Installation	Building Construction	7/1/2027	8/25/2027	5	40	
9	Steel/Bus Erection	Building Construction	7/1/2027	8/25/2027	5	40	
10	Yard Rock Installation	Paving	9/1/2027	9/28/2027	5	20	
11	Cleaning and Restoration 1	Building Construction	10/1/2027	10/14/2027	5	10	
12	Remaining Deliveries, Installations, Testing and Commissioning 1	Building Construction	11/1/2027	12/24/2027	5	40	
13	Cleaning and Restoration 2	Building Construction	2/1/2028	2/14/2028	5	10	
14	Remaining Deliveries, Installations, Testing and Commissioning 2	Building Construction	2/1/2028	2/28/2028	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Roads	Off-Highway Trucks	4	6.00	275	0.38
Access Roads	Rubber Tired Loaders	2	6.00	203	0.36
Site Preparation	Graders	1	6.00	187	0.41
Site Preparation	Off-Highway Trucks	9	6.00	275	0.38
Site Preparation	Rollers	2	6.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Site Preparation	Scrapers	1	6.00	367	0.48
Survey	Off-Highway Trucks	2	6.00	275	0.38
Fence and Gate Installation	Off-Highway Trucks	5	6.00	275	0.38
Fence and Gate Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Underground 12 kV Line Installation	Bore/Drill Rigs	1	6.00	221	0.50
Underground 12 kV Line Installation	Off-Highway Trucks	2	6.00	275	0.38
Underground 12 kV Line Installation	Trenchers	1	6.00	78	0.50
Ground/Grid Circuit Installation	Off-Highway Trucks	1	6.00	275	0.38
Ground/Grid Circuit Installation	Trenchers	1	6.00	78	0.50
Transformer Installation	Cranes	1	6.00	231	0.29
Transformer Installation	Generator Sets	1	6.00	34	0.74
Transformer Installation	Off-Highway Trucks	5	6.00	275	0.38
Steel/Bus Erection	Aerial Lifts	1	6.00	63	0.31
Steel/Bus Erection	Off-Highway Trucks	2	6.00	275	0.44
Remaining Deliveries, Installations, Testing and Commissioning 1	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 1	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 1	Off-Highway Trucks	3	6.00	275	0.38
Cleaning and Restoration 1	Graders	1	6.00	187	0.41
Cleaning and Restoration 1	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 1	Rubber Tired Loaders	1	6.00	203	0.36
Foundation	Bore/Drill Rigs	1	6.00	221	0.50

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Foundation	Cranes	1	6.00	231	0.29
Foundation	Off-Highway Trucks	2	6.00	275	0.38
Foundation	Rubber Tired Dozers	1	6.00	247	0.40
Yard Rock Installation	Off-Highway Trucks	2	6.00	275	0.38
Yard Rock Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Cleaning and Restoration 2	Graders	1	6.00	187	0.41
Cleaning and Restoration 2	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 2	Rubber Tired Dozers	1	6.00	247	0.40
Remaining Deliveries, Installations, Testing and Commissioning 2	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 2	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 2	Off-Highway Trucks	3	6.00	275	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Roads	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	15	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Survey	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fence and Gate Installation	6	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground 12 kV Line Installation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Grid Circuit Installation	2	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Transformer Installation	7	16.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Steel/Bus Erection	3	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remaining Deliveries, Installations, Testing	5	30.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 1	3	6.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundation	5	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Yard Rock Installation	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 2										
Remaining Deliveries, Installations, Testing										

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Survey - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-003	0.0294	0.0327	1.4000e-004		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	11.9122	11.9122	3.8500e-003	0.0000	12.0086
Total	**4.9000e-003**	**0.0294**	**0.0327**	**1.4000e-004**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**11.9122**	**11.9122**	**3.8500e-003**	**0.0000**	**12.0086**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.7000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2743	0.2743	1.0000e-005	1.0000e-005	0.2765
Total	**1.1000e-004**	**6.0000e-005**	**8.7000e-004**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.2743**	**0.2743**	**1.0000e-005**	**1.0000e-005**	**0.2765**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-003	0.0294	0.0327	1.4000e-004		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	11.9122	11.9122	3.8500e-003	0.0000	12.0085
Total	**4.9000e-003**	**0.0294**	**0.0327**	**1.4000e-004**	**0.0000**	**1.0500e-003**	**1.0500e-003**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**11.9122**	**11.9122**	**3.8500e-003**	**0.0000**	**12.0085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.7000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2743	0.2743	1.0000e-005	1.0000e-005	0.2765
Total	**1.1000e-004**	**6.0000e-005**	**8.7000e-004**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.2743**	**0.2743**	**1.0000e-005**	**1.0000e-005**	**0.2765**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Access Roads - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0867	0.0875	3.7000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	32.0657	32.0657	0.0104	0.0000	32.3249
Total	**0.0132**	**0.0867**	**0.0875**	**3.7000e-004**	**0.0000**	**3.0400e-003**	**3.0400e-003**	**0.0000**	**2.8000e-003**	**2.8000e-003**	**0.0000**	**32.0657**	**32.0657**	**0.0104**	**0.0000**	**32.3249**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**4.4000e-004**	**2.4000e-004**	**3.4800e-003**	**1.0000e-005**	**0.0563**	**1.0000e-005**	**0.0563**	**5.8700e-003**	**1.0000e-005**	**5.8800e-003**	**0.0000**	**1.0971**	**1.0971**	**3.0000e-005**	**3.0000e-005**	**1.1059**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0867	0.0875	3.7000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	32.0656	32.0656	0.0104	0.0000	32.3249
Total	**0.0132**	**0.0867**	**0.0875**	**3.7000e-004**	**0.0000**	**3.0400e-003**	**3.0400e-003**	**0.0000**	**2.8000e-003**	**2.8000e-003**	**0.0000**	**32.0656**	**32.0656**	**0.0104**	**0.0000**	**32.3249**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**4.4000e-004**	**2.4000e-004**	**3.4800e-003**	**1.0000e-005**	**0.0563**	**1.0000e-005**	**0.0563**	**5.8700e-003**	**1.0000e-005**	**5.8800e-003**	**0.0000**	**1.0971**	**1.0971**	**3.0000e-005**	**3.0000e-005**	**1.1059**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1823	0.0000	0.1823	0.0995	0.0000	0.0995	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.2914	0.2606	9.2000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	81.1547	81.1547	0.0263	0.0000	81.8108
Total	**0.0381**	**0.2914**	**0.2606**	**9.2000e-004**	**0.1823**	**0.0112**	**0.1935**	**0.0995**	**0.0103**	**0.1098**	**0.0000**	**81.1547**	**81.1547**	**0.0263**	**0.0000**	**81.8108**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**4.4000e-004**	**2.4000e-004**	**3.4800e-003**	**1.0000e-005**	**0.0563**	**1.0000e-005**	**0.0563**	**5.8700e-003**	**1.0000e-005**	**5.8800e-003**	**0.0000**	**1.0971**	**1.0971**	**3.0000e-005**	**3.0000e-005**	**1.1059**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0820	0.0000	0.0820	0.0448	0.0000	0.0448	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.2914	0.2606	9.2000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	81.1546	81.1546	0.0263	0.0000	81.8107
Total	**0.0381**	**0.2914**	**0.2606**	**9.2000e-004**	**0.0820**	**0.0112**	**0.0932**	**0.0448**	**0.0103**	**0.0551**	**0.0000**	**81.1546**	**81.1546**	**0.0263**	**0.0000**	**81.8107**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**4.4000e-004**	**2.4000e-004**	**3.4800e-003**	**1.0000e-005**	**0.0563**	**1.0000e-005**	**0.0563**	**5.8700e-003**	**1.0000e-005**	**5.8800e-003**	**0.0000**	**1.0971**	**1.0971**	**3.0000e-005**	**3.0000e-005**	**1.1059**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground 12 kV Line Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4100e-003	0.0327	0.0336	1.2000e-004		1.4900e-003	1.4900e-003		1.3700e-003	1.3700e-003	0.0000	10.1902	10.1902	3.3000e-003	0.0000	10.2726
Total	**4.4100e-003**	**0.0327**	**0.0336**	**1.2000e-004**		**1.4900e-003**	**1.4900e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**10.1902**	**10.1902**	**3.3000e-003**	**0.0000**	**10.2726**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.7000e-004	0.0000	0.0141	0.0000	0.0141	1.4700e-003	0.0000	1.4700e-003	0.0000	0.2743	0.2743	1.0000e-005	1.0000e-005	0.2765
Total	**1.1000e-004**	**6.0000e-005**	**8.7000e-004**	**0.0000**	**0.0141**	**0.0000**	**0.0141**	**1.4700e-003**	**0.0000**	**1.4700e-003**	**0.0000**	**0.2743**	**0.2743**	**1.0000e-005**	**1.0000e-005**	**0.2765**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4100e-003	0.0327	0.0336	1.2000e-004		1.4900e-003	1.4900e-003		1.3700e-003	1.3700e-003	0.0000	10.1902	10.1902	3.3000e-003	0.0000	10.2725
Total	**4.4100e-003**	**0.0327**	**0.0336**	**1.2000e-004**		**1.4900e-003**	**1.4900e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**10.1902**	**10.1902**	**3.3000e-003**	**0.0000**	**10.2725**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	8.7000e-004	0.0000	0.0141	0.0000	0.0141	1.4700e-003	0.0000	1.4700e-003	0.0000	0.2743	0.2743	1.0000e-005	1.0000e-005	0.2765
Total	**1.1000e-004**	**6.0000e-005**	**8.7000e-004**	**0.0000**	**0.0141**	**0.0000**	**0.0141**	**1.4700e-003**	**0.0000**	**1.4700e-003**	**0.0000**	**0.2743**	**0.2743**	**1.0000e-005**	**1.0000e-005**	**0.2765**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Fence and Gate Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0182	0.1164	0.1384	5.1000e-004		4.0600e-003	4.0600e-003		3.7300e-003	3.7300e-003	0.0000	44.8717	44.8717	0.0145	0.0000	45.2345
Total	**0.0182**	**0.1164**	**0.1384**	**5.1000e-004**	**0.0000**	**4.0600e-003**	**4.0600e-003**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**0.0000**	**44.8717**	**44.8717**	**0.0145**	**0.0000**	**45.2345**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.7000e-004	2.4300e-003	1.0000e-005	0.0394	0.0000	0.0394	4.1100e-003	0.0000	4.1200e-003	0.0000	0.7680	0.7680	2.0000e-005	2.0000e-005	0.7741
Total	**3.0000e-004**	**1.7000e-004**	**2.4300e-003**	**1.0000e-005**	**0.0394**	**0.0000**	**0.0394**	**4.1100e-003**	**0.0000**	**4.1200e-003**	**0.0000**	**0.7680**	**0.7680**	**2.0000e-005**	**2.0000e-005**	**0.7741**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0182	0.1164	0.1384	5.1000e-004		4.0600e-003	4.0600e-003		3.7300e-003	3.7300e-003	0.0000	44.8716	44.8716	0.0145	0.0000	45.2344
Total	**0.0182**	**0.1164**	**0.1384**	**5.1000e-004**	**0.0000**	**4.0600e-003**	**4.0600e-003**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**0.0000**	**44.8716**	**44.8716**	**0.0145**	**0.0000**	**45.2344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.7000e-004	2.4300e-003	1.0000e-005	0.0394	0.0000	0.0394	4.1100e-003	0.0000	4.1200e-003	0.0000	0.7680	0.7680	2.0000e-005	2.0000e-005	0.7741
Total	**3.0000e-004**	**1.7000e-004**	**2.4300e-003**	**1.0000e-005**	**0.0394**	**0.0000**	**0.0394**	**4.1100e-003**	**0.0000**	**4.1200e-003**	**0.0000**	**0.7680**	**0.7680**	**2.0000e-005**	**2.0000e-005**	**0.7741**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0274	0.2338	0.1669	6.3000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	55.1637	55.1637	0.0178	0.0000	55.6097
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0274**	**0.2338**	**0.1669**	**6.3000e-004**		**9.3900e-003**	**9.3900e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**55.1637**	**55.1637**	**0.0178**	**0.0000**	**55.6097**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	4.9000e-004	6.9600e-003	2.0000e-005	0.1125	1.0000e-005	0.1125	0.0118	1.0000e-005	0.0118	0.0000	2.1942	2.1942	5.0000e-005	5.0000e-005	2.2118
Total	**8.7000e-004**	**4.9000e-004**	**6.9600e-003**	**2.0000e-005**	**0.1125**	**1.0000e-005**	**0.1125**	**0.0118**	**1.0000e-005**	**0.0118**	**0.0000**	**2.1942**	**2.1942**	**5.0000e-005**	**5.0000e-005**	**2.2118**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0274	0.2338	0.1669	6.3000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	55.1636	55.1636	0.0178	0.0000	55.6096
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0274**	**0.2338**	**0.1669**	**6.3000e-004**		**9.3900e-003**	**9.3900e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**55.1636**	**55.1636**	**0.0178**	**0.0000**	**55.6096**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	4.9000e-004	6.9600e-003	2.0000e-005	0.1125	1.0000e-005	0.1125	0.0118	1.0000e-005	0.0118	0.0000	2.1942	2.1942	5.0000e-005	5.0000e-005	2.2118
Total	**8.7000e-004**	**4.9000e-004**	**6.9600e-003**	**2.0000e-005**	**0.1125**	**1.0000e-005**	**0.1125**	**0.0118**	**1.0000e-005**	**0.0118**	**0.0000**	**2.1942**	**2.1942**	**5.0000e-005**	**5.0000e-005**	**2.2118**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Ground/Grid Circuit Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6100e-003	0.0736	0.0712	1.9000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	16.3667	16.3667	5.2900e-003	0.0000	16.4990
Total	**9.6100e-003**	**0.0736**	**0.0712**	**1.9000e-004**		**3.9900e-003**	**3.9900e-003**		**3.6700e-003**	**3.6700e-003**	**0.0000**	**16.3667**	**16.3667**	**5.2900e-003**	**0.0000**	**16.4990**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**8.7000e-004**	**0.0194**	**8.8500e-003**	**9.0000e-005**	**0.1405**	**1.3000e-004**	**0.1406**	**0.0148**	**1.3000e-004**	**0.0149**	**0.0000**	**8.9801**	**8.9801**	**7.0000e-005**	**1.2200e-003**	**9.3432**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6100e-003	0.0736	0.0712	1.9000e-004		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	16.3667	16.3667	5.2900e-003	0.0000	16.4990
Total	**9.6100e-003**	**0.0736**	**0.0712**	**1.9000e-004**		**3.9900e-003**	**3.9900e-003**		**3.6700e-003**	**3.6700e-003**	**0.0000**	**16.3667**	**16.3667**	**5.2900e-003**	**0.0000**	**16.4990**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**8.7000e-004**	**0.0194**	**8.8500e-003**	**9.0000e-005**	**0.1405**	**1.3000e-004**	**0.1406**	**0.0148**	**1.3000e-004**	**0.0149**	**0.0000**	**8.9801**	**8.9801**	**7.0000e-005**	**1.2200e-003**	**9.3432**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Transformer Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0321	0.2177	0.2145	8.1000e-004		7.8900e-003	7.8900e-003		7.3100e-003	7.3100e-003	0.0000	70.5972	70.5972	0.0220	0.0000	71.1462
Total	**0.0321**	**0.2177**	**0.2145**	**8.1000e-004**		**7.8900e-003**	**7.8900e-003**		**7.3100e-003**	**7.3100e-003**	**0.0000**	**70.5972**	**70.5972**	**0.0220**	**0.0000**	**71.1462**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	7.0000e-004	3.9000e-004	5.5700e-003	2.0000e-005	0.0900	1.0000e-005	0.0900	9.4000e-003	1.0000e-005	9.4100e-003	0.0000	1.7553	1.7553	4.0000e-005	4.0000e-005	1.7694
Total	**1.1300e-003**	**0.0196**	**0.0109**	**1.0000e-004**	**0.1742**	**1.3000e-004**	**0.1743**	**0.0184**	**1.3000e-004**	**0.0185**	**0.0000**	**9.6384**	**9.6384**	**8.0000e-005**	**1.2300e-003**	**10.0067**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0321	0.2177	0.2145	8.1000e-004		7.8900e-003	7.8900e-003		7.3100e-003	7.3100e-003	0.0000	70.5971	70.5971	0.0220	0.0000	71.1461
Total	**0.0321**	**0.2177**	**0.2145**	**8.1000e-004**		**7.8900e-003**	**7.8900e-003**		**7.3100e-003**	**7.3100e-003**	**0.0000**	**70.5971**	**70.5971**	**0.0220**	**0.0000**	**71.1461**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	7.0000e-004	3.9000e-004	5.5700e-003	2.0000e-005	0.0900	1.0000e-005	0.0900	9.4000e-003	1.0000e-005	9.4100e-003	0.0000	1.7553	1.7553	4.0000e-005	4.0000e-005	1.7694
Total	**1.1300e-003**	**0.0196**	**0.0109**	**1.0000e-004**	**0.1742**	**1.3000e-004**	**0.1743**	**0.0184**	**1.3000e-004**	**0.0185**	**0.0000**	**9.6384**	**9.6384**	**8.0000e-005**	**1.2300e-003**	**10.0067**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Steel/Bus Erection - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.0759	0.0921	3.4000e-004		2.5700e-003	2.5700e-003		2.3600e-003	2.3600e-003	0.0000	29.7991	29.7991	9.6400e-003	0.0000	30.0401
Total	**0.0119**	**0.0759**	**0.0921**	**3.4000e-004**		**2.5700e-003**	**2.5700e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**29.7991**	**29.7991**	**9.6400e-003**	**0.0000**	**30.0401**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**8.7000e-004**	**0.0194**	**8.8500e-003**	**9.0000e-005**	**0.1405**	**1.3000e-004**	**0.1406**	**0.0148**	**1.3000e-004**	**0.0149**	**0.0000**	**8.9801**	**8.9801**	**7.0000e-005**	**1.2200e-003**	**9.3432**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.0759	0.0921	3.4000e-004		2.5700e-003	2.5700e-003		2.3600e-003	2.3600e-003	0.0000	29.7991	29.7991	9.6400e-003	0.0000	30.0400
Total	**0.0119**	**0.0759**	**0.0921**	**3.4000e-004**		**2.5700e-003**	**2.5700e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**29.7991**	**29.7991**	**9.6400e-003**	**0.0000**	**30.0400**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	4.4000e-004	2.4000e-004	3.4800e-003	1.0000e-005	0.0563	1.0000e-005	0.0563	5.8700e-003	1.0000e-005	5.8800e-003	0.0000	1.0971	1.0971	3.0000e-005	3.0000e-005	1.1059
Total	**8.7000e-004**	**0.0194**	**8.8500e-003**	**9.0000e-005**	**0.1405**	**1.3000e-004**	**0.1406**	**0.0148**	**1.3000e-004**	**0.0149**	**0.0000**	**8.9801**	**8.9801**	**7.0000e-005**	**1.2200e-003**	**9.3432**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Yard Rock Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6300e-003	0.0390	0.0498	1.6000e-004		1.3200e-003	1.3200e-003		1.2200e-003	1.2200e-003	0.0000	14.1828	14.1828	4.5900e-003	0.0000	14.2975
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6300e-003**	**0.0390**	**0.0498**	**1.6000e-004**		**1.3200e-003**	**1.3200e-003**		**1.2200e-003**	**1.2200e-003**	**0.0000**	**14.1828**	**14.1828**	**4.5900e-003**	**0.0000**	**14.2975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.0000e-004	2.7800e-003	1.0000e-005	0.0450	1.0000e-005	0.0450	4.7000e-003	0.0000	4.7000e-003	0.0000	0.8777	0.8777	2.0000e-005	2.0000e-005	0.8847
Total	**3.5000e-004**	**2.0000e-004**	**2.7800e-003**	**1.0000e-005**	**0.0450**	**1.0000e-005**	**0.0450**	**4.7000e-003**	**0.0000**	**4.7000e-003**	**0.0000**	**0.8777**	**0.8777**	**2.0000e-005**	**2.0000e-005**	**0.8847**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6300e-003	0.0390	0.0498	1.6000e-004		1.3200e-003	1.3200e-003		1.2200e-003	1.2200e-003	0.0000	14.1828	14.1828	4.5900e-003	0.0000	14.2975
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6300e-003**	**0.0390**	**0.0498**	**1.6000e-004**		**1.3200e-003**	**1.3200e-003**		**1.2200e-003**	**1.2200e-003**	**0.0000**	**14.1828**	**14.1828**	**4.5900e-003**	**0.0000**	**14.2975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.0000e-004	2.7800e-003	1.0000e-005	0.0450	1.0000e-005	0.0450	4.7000e-003	0.0000	4.7000e-003	0.0000	0.8777	0.8777	2.0000e-005	2.0000e-005	0.8847
Total	**3.5000e-004**	**2.0000e-004**	**2.7800e-003**	**1.0000e-005**	**0.0450**	**1.0000e-005**	**0.0450**	**4.7000e-003**	**0.0000**	**4.7000e-003**	**0.0000**	**0.8777**	**0.8777**	**2.0000e-005**	**2.0000e-005**	**0.8847**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Cleaning and Restoration 1 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2500e-003	0.0273	0.0197	8.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	7.2164	7.2164	2.3300e-003	0.0000	7.2748
Total	**3.2500e-003**	**0.0273**	**0.0197**	**8.0000e-005**		**9.1000e-004**	**9.1000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**7.2164**	**7.2164**	**2.3300e-003**	**0.0000**	**7.2748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.7900e-003	1.3400e-003	2.0000e-005	0.0211	3.0000e-005	0.0211	2.2400e-003	3.0000e-005	2.2700e-003	0.0000	1.9708	1.9708	1.0000e-005	3.0000e-004	2.0593
Worker	7.0000e-005	4.0000e-005	5.2000e-004	0.0000	8.4400e-003	0.0000	8.4400e-003	8.8000e-004	0.0000	8.8000e-004	0.0000	0.1646	0.1646	0.0000	0.0000	0.1659
Total	**1.8000e-004**	**4.8300e-003**	**1.8600e-003**	**2.0000e-005**	**0.0295**	**3.0000e-005**	**0.0295**	**3.1200e-003**	**3.0000e-005**	**3.1500e-003**	**0.0000**	**2.1353**	**2.1353**	**1.0000e-005**	**3.0000e-004**	**2.2252**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2500e-003	0.0273	0.0197	8.0000e-005		9.1000e-004	9.1000e-004		8.4000e-004	8.4000e-004	0.0000	7.2164	7.2164	2.3300e-003	0.0000	7.2748
Total	**3.2500e-003**	**0.0273**	**0.0197**	**8.0000e-005**		**9.1000e-004**	**9.1000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**7.2164**	**7.2164**	**2.3300e-003**	**0.0000**	**7.2748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.7900e-003	1.3400e-003	2.0000e-005	0.0211	3.0000e-005	0.0211	2.2400e-003	3.0000e-005	2.2700e-003	0.0000	1.9708	1.9708	1.0000e-005	3.0000e-004	2.0593
Worker	7.0000e-005	4.0000e-005	5.2000e-004	0.0000	8.4400e-003	0.0000	8.4400e-003	8.8000e-004	0.0000	8.8000e-004	0.0000	0.1646	0.1646	0.0000	0.0000	0.1659
Total	**1.8000e-004**	**4.8300e-003**	**1.8600e-003**	**2.0000e-005**	**0.0295**	**3.0000e-005**	**0.0295**	**3.1200e-003**	**3.0000e-005**	**3.1500e-003**	**0.0000**	**2.1353**	**2.1353**	**1.0000e-005**	**3.0000e-004**	**2.2252**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Remaining Deliveries, Installations, Testing and Commissioning 1 - [illegible]

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0199	0.1436	0.1405	5.2000e-004		5.3100e-003	5.3100e-003		4.8800e-003	4.8800e-003	0.0000	45.5540	45.5540	0.0147	0.0000	45.9223
Total	**0.0199**	**0.1436**	**0.1405**	**5.2000e-004**		**5.3100e-003**	**5.3100e-003**		**4.8800e-003**	**4.8800e-003**	**0.0000**	**45.5540**	**45.5540**	**0.0147**	**0.0000**	**45.9223**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	1.3100e-003	7.3000e-004	0.0104	4.0000e-005	0.1688	2.0000e-005	0.1688	0.0176	2.0000e-005	0.0176	0.0000	3.2913	3.2913	8.0000e-005	8.0000e-005	3.3177
Total	**1.7400e-003**	**0.0199**	**0.0158**	**1.2000e-004**	**0.2530**	**1.4000e-004**	**0.2531**	**0.0266**	**1.4000e-004**	**0.0267**	**0.0000**	**11.1743**	**11.1743**	**1.2000e-004**	**1.2700e-003**	**11.5549**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0199	0.1436	0.1405	5.2000e-004		5.3100e-003	5.3100e-003		4.8800e-003	4.8800e-003	0.0000	45.5539	45.5539	0.0147	0.0000	45.9223
Total	**0.0199**	**0.1436**	**0.1405**	**5.2000e-004**		**5.3100e-003**	**5.3100e-003**		**4.8800e-003**	**4.8800e-003**	**0.0000**	**45.5539**	**45.5539**	**0.0147**	**0.0000**	**45.9223**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0192	5.3700e-003	8.0000e-005	0.0842	1.2000e-004	0.0843	8.9500e-003	1.2000e-004	9.0600e-003	0.0000	7.8831	7.8831	4.0000e-005	1.1900e-003	8.2373
Worker	1.3100e-003	7.3000e-004	0.0104	4.0000e-005	0.1688	2.0000e-005	0.1688	0.0176	2.0000e-005	0.0176	0.0000	3.2913	3.2913	8.0000e-005	8.0000e-005	3.3177
Total	**1.7400e-003**	**0.0199**	**0.0158**	**1.2000e-004**	**0.2530**	**1.4000e-004**	**0.2531**	**0.0266**	**1.4000e-004**	**0.0267**	**0.0000**	**11.1743**	**11.1743**	**1.2000e-004**	**1.2700e-003**	**11.5549**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Cleaning and Restoration 2 - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8200e-003	0.0452	0.0254	9.0000e-005		1.7700e-003	1.7700e-003		1.6300e-003	1.6300e-003	0.0000	7.9694	7.9694	2.5800e-003	0.0000	8.0338
Total	**4.8200e-003**	**0.0452**	**0.0254**	**9.0000e-005**		**1.7700e-003**	**1.7700e-003**		**1.6300e-003**	**1.6300e-003**	**0.0000**	**7.9694**	**7.9694**	**2.5800e-003**	**0.0000**	**8.0338**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8200e-003	0.0452	0.0254	9.0000e-005		1.7700e-003	1.7700e-003		1.6300e-003	1.6300e-003	0.0000	7.9694	7.9694	2.5800e-003	0.0000	8.0338
Total	**4.8200e-003**	**0.0452**	**0.0254**	**9.0000e-005**		**1.7700e-003**	**1.7700e-003**		**1.6300e-003**	**1.6300e-003**	**0.0000**	**7.9694**	**7.9694**	**2.5800e-003**	**0.0000**	**8.0338**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 Remaining Deliveries, Installations, Testing and Commissioning 2 -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9500e-003	0.0718	0.0702	2.6000e-004		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	22.7770	22.7770	7.3700e-003	0.0000	22.9612
Total	**9.9500e-003**	**0.0718**	**0.0702**	**2.6000e-004**		**2.6500e-003**	**2.6500e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**22.7770**	**22.7770**	**7.3700e-003**	**0.0000**	**22.9612**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9500e-003	0.0718	0.0702	2.6000e-004		2.6500e-003	2.6500e-003		2.4400e-003	2.4400e-003	0.0000	22.7770	22.7770	7.3700e-003	0.0000	22.9611
Total	**9.9500e-003**	**0.0718**	**0.0702**	**2.6000e-004**		**2.6500e-003**	**2.6500e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**22.7770**	**22.7770**	**7.3700e-003**	**0.0000**	**22.9611**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.554122	0.053376	0.171995	0.136171	0.022603	0.005710	0.012724	0.016721	0.000451	0.000316	0.021848	0.001050	0.002914

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	319.4967	319.4967	0.0145	2.9900e-003	320.7486
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	319.4967	319.4967	0.0145	2.9900e-003	320.7486
NaturalGas Mitigated	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	130.5925	130.5925	2.5000e-003	2.3900e-003	131.3686
NaturalGas Unmitigated	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	130.5925	130.5925	2.5000e-003	2.3900e-003	131.3686

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.44721e+006	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	130.5925	130.5925	2.5000e-003	2.3900e-003	131.3686
Total		**0.0132**	**0.1200**	**0.1008**	**7.2000e-004**		**9.1200e-003**	**9.1200e-003**		**9.1200e-003**	**9.1200e-003**	**0.0000**	**130.5925**	**130.5925**	**2.5000e-003**	**2.3900e-003**	**131.3686**

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Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.44721e+006	0.0132	0.1200	0.1008	7.2000e-004		9.1200e-003	9.1200e-003		9.1200e-003	9.1200e-003	0.0000	130.5925	130.5925	2.5000e-003	2.3900e-003	131.3686
Total		**0.0132**	**0.1200**	**0.1008**	**7.2000e-004**		**9.1200e-003**	**9.1200e-003**		**9.1200e-003**	**9.1200e-003**	**0.0000**	**130.5925**	**130.5925**	**2.5000e-003**	**2.3900e-003**	**131.3686**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.09826e+006	319.4967	0.0145	2.9900e-003	320.7486
Total		**319.4967**	**0.0145**	**2.9900e-003**	**320.7486**

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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.09826e+006	319.4967	0.0145	2.9900e-003	320.7486
Total		**319.4967**	**0.0145**	**2.9900e-003**	**320.7486**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5181	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003
Unmitigated	0.5181	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003
Total	**0.5181**	**1.0000e-005**	**1.2200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.3700e-003**	**2.3700e-003**	**1.0000e-005**	**0.0000**	**2.5200e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3700e-003	2.3700e-003	1.0000e-005	0.0000	2.5200e-003
Total	**0.5181**	**1.0000e-005**	**1.2200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.3700e-003**	**2.3700e-003**	**1.0000e-005**	**0.0000**	**2.5200e-003**

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Off-Highway Trucks	1.4300e-003	8.6000e-003	9.5600e-003	4.0000e-005		3.1000e-004	3.1000e-004		2.8000e-004	2.8000e-004	0.0000	3.4827	3.4827	1.1300e-003	0.0000	3.5109
Total	**1.4300e-003**	**8.6000e-003**	**9.5600e-003**	**4.0000e-005**		**3.1000e-004**	**3.1000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**3.4827**	**3.4827**	**1.1300e-003**	**0.0000**	**3.5109**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Lodi Substation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	132.64	1000sqft	4.60	132,640.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2028
Utility Company					
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific info

Land Use - 4.6 acres of disturbed area per grading plan

Construction Phase - Project-specific timeline.

Off-road Equipment - Project-specific Information.

Off-road Equipment -

Off-road Equipment - Project-specific info

Off-road Equipment - Project-specific

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific equipment list used in lieu of CalEEMod defaults.

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific value

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific info

Off-road Equipment - Project-specific information

Trips and VMT - Project-specific worker trips

On-road Fugitive Dust - Only a small portion of the construction access road surfaces surrounding the project will be unpaved, therefore 98% pavement is assumed.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading - Site-specific area.

Vehicle Trips - Unmanned operation and no daily worker trips will occur

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project.

Landscape Equipment -

Energy Use -

Water And Wastewater - Unmanned facility - no water use is expected

Solid Waste - Unmanned facility - no solid waste generation is expected

Construction Off-road Equipment Mitigation - Tier 3 compliant engines are assumed for the project

Watering of exposed areas is assumed

Operational Off-Road Equipment - Assumes monthly inspection utilizing one off-highway truck 4 hours per day.

Fleet Mix -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	18.00	40.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	28.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	20.00
tblGrading	AcresOfGrading	120.00	3.04
tblLandUse	LandUseSquareFeet	132,640.00	132,640.20
tblLandUse	LotAcreage	3.04	4.60
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	LoadFactor	0.38	0.44
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Survey
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Transformer Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblOnRoadDust	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	164.47	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblTripsAndVMT	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblTripsAndVMT	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	30.00
tblTripsAndVMT	WorkerTripNumber	56.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	16.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.00
tblWater	IndoorWaterUseRate	30,673,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	6.1321	44.4095	42.4950	0.1554	34.5252	1.7213	36.2465	11.6413	1.5836	13.2249	0.0000	15,053.0148	15,053.0148	4.7695	0.2009	15,174.3660
2028	1.9596	16.2140	12.1018	0.0441	0.0000	0.6189	0.6189	0.0000	0.5694	0.5694	0.0000	4,267.6839	4,267.6839	1.3803	0.0000	4,302.1903
Maximum	**6.1321**	**44.4095**	**42.4950**	**0.1554**	**34.5252**	**1.7213**	**36.2465**	**11.6413**	**1.5836**	**13.2249**	**0.0000**	**15,053.0148**	**15,053.0148**	**4.7695**	**0.2009**	**15,174.3660**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	6.1321	44.4095	42.4950	0.1554	26.3564	1.7213	27.0988	6.1699	1.5836	7.7535	0.0000	15,053.0148	15,053.0148	4.7695	0.2009	15,174.3659
2028	1.9596	16.2140	12.1018	0.0441	0.0000	0.6189	0.6189	0.0000	0.5694	0.5694	0.0000	4,267.6839	4,267.6839	1.3803	0.0000	4,302.1903
Maximum	**6.1321**	**44.4095**	**42.4950**	**0.1554**	**26.3564**	**1.7213**	**27.0988**	**6.1699**	**1.5836**	**7.7535**	**0.0000**	**15,053.0148**	**15,053.0148**	**4.7695**	**0.2009**	**15,174.3659**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**23.66**	**0.00**	**24.81**	**47.00**	**0.00**	**39.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**3.1508**	**2.0905**	**2.1584**	**0.0106**	**0.0000**	**0.1012**	**0.1012**	**0.0000**	**0.0971**	**0.0971**	**0.0000**	**1,428.6538**	**1,428.6538**	**0.2221**	**0.0145**	**1,438.5164**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**3.1508**	**2.0905**	**2.1584**	**0.0106**	**0.0000**	**0.1012**	**0.1012**	**0.0000**	**0.0971**	**0.0971**	**0.0000**	**1,428.6538**	**1,428.6538**	**0.2221**	**0.0145**	**1,438.5164**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey	Site Preparation	2/1/2027	2/26/2027	5	20	
2	Access Roads	Site Preparation	3/1/2027	3/26/2027	5	20	
3	Site Preparation	Site Preparation	3/1/2027	3/26/2027	5	20	
4	Underground 12 kV Line Installation	Trenching	3/1/2027	3/12/2027	5	10	
5	Fence and Gate Installation	Site Preparation	4/1/2027	5/10/2027	5	28	
6	Foundation	Paving	5/1/2027	6/27/2027	5	40	
7	Ground/Grid Circuit Installation	Building Construction	6/1/2027	7/26/2027	5	40	
8	Transformer Installation	Building Construction	7/1/2027	8/25/2027	5	40	
9	Steel/Bus Erection	Building Construction	7/1/2027	8/25/2027	5	40	
10	Yard Rock Installation	Paving	9/1/2027	9/28/2027	5	20	
11	Cleaning and Restoration 1	Building Construction	10/1/2027	10/14/2027	5	10	
12	Remaining Deliveries, Installations, Testing and Commissioning 1	Building Construction	11/1/2027	12/24/2027	5	40	
13	Cleaning and Restoration 2	Building Construction	2/1/2028	2/14/2028	5	10	
14	Remaining Deliveries, Installations, Testing and Commissioning 2	Building Construction	2/1/2028	2/28/2028	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Roads	Off-Highway Trucks	4	6.00	275	0.38
Access Roads	Rubber Tired Loaders	2	6.00	203	0.36
Site Preparation	Graders	1	6.00	187	0.41
Site Preparation	Off-Highway Trucks	9	6.00	275	0.38
Site Preparation	Rollers	2	6.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Site Preparation	Scrapers	1	6.00	367	0.48
Survey	Off-Highway Trucks	2	6.00	275	0.38
Fence and Gate Installation	Off-Highway Trucks	5	6.00	275	0.38
Fence and Gate Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Underground 12 kV Line Installation	Bore/Drill Rigs	1	6.00	221	0.50
Underground 12 kV Line Installation	Off-Highway Trucks	2	6.00	275	0.38
Underground 12 kV Line Installation	Trenchers	1	6.00	78	0.50
Ground/Grid Circuit Installation	Off-Highway Trucks	1	6.00	275	0.38
Ground/Grid Circuit Installation	Trenchers	1	6.00	78	0.50
Transformer Installation	Cranes	1	6.00	231	0.29
Transformer Installation	Generator Sets	1	6.00	34	0.74
Transformer Installation	Off-Highway Trucks	5	6.00	275	0.38
Steel/Bus Erection	Aerial Lifts	1	6.00	63	0.31
Steel/Bus Erection	Off-Highway Trucks	2	6.00	275	0.44
Remaining Deliveries, Installations, Testing and Commissioning 1	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 1	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 1	Off-Highway Trucks	3	6.00	275	0.38
Cleaning and Restoration 1	Graders	1	6.00	187	0.41
Cleaning and Restoration 1	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 1	Rubber Tired Loaders	1	6.00	203	0.36
Foundation	Bore/Drill Rigs	1	6.00	221	0.50
Foundation	Cranes	1	6.00	231	0.29
Foundation	Off-Highway Trucks	2	6.00	275	0.38
Foundation	Rubber Tired Dozers	1	6.00	247	0.40

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Yard Rock Installation	Off-Highway Trucks	2	6.00	275	0.38
Yard Rock Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Cleaning and Restoration 2	Graders	1	6.00	187	0.41
Cleaning and Restoration 2	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 2	Rubber Tired Dozers	1	6.00	247	0.40
Remaining Deliveries, Installations, Testing and Commissioning 2	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 2	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 2	Off-Highway Trucks	3	6.00	275	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Roads	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	15	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Survey	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fence and Gate Installation	6	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground 12 kV Line Installation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Grid Circuit Installation	2	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Transformer Installation	7	16.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Steel/Bus Erection	3	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remaining Deliveries, Installations, Testing	5	30.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 1	3	6.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundation	5	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Yard Rock Installation	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 2										
Remaining Deliveries, Installations, Testing										

3.1 Mitigation Measures Construction

Water Exposed Area

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Survey - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4901	2.9409	3.2687	0.0136		0.1051	0.1051		0.0967	0.0967		1,313.0998	1,313.0998	0.4247		1,323.7169
Total	**0.4901**	**2.9409**	**3.2687**	**0.0136**	**0.0000**	**0.1051**	**0.1051**	**0.0000**	**0.0967**	**0.0967**		**1,313.0998**	**1,313.0998**	**0.4247**		**1,323.7169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	5.5400e-003	0.0966	3.2000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0110		32.6068	32.6068	6.6000e-004	7.1000e-004	32.8344
Total	**0.0121**	**5.5400e-003**	**0.0966**	**3.2000e-004**	**0.0411**	**1.6000e-004**	**0.0412**	**0.0109**	**1.5000e-004**	**0.0110**		**32.6068**	**32.6068**	**6.6000e-004**	**7.1000e-004**	**32.8344**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4901	2.9409	3.2687	0.0136		0.1051	0.1051		0.0967	0.0967	0.0000	1,313.0998	1,313.0998	0.4247		1,323.7169
Total	**0.4901**	**2.9409**	**3.2687**	**0.0136**	**0.0000**	**0.1051**	**0.1051**	**0.0000**	**0.0967**	**0.0967**	**0.0000**	**1,313.0998**	**1,313.0998**	**0.4247**		**1,323.7169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	5.5400e-003	0.0966	3.2000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0110		32.6068	32.6068	6.6000e-004	7.1000e-004	32.8344
Total	**0.0121**	**5.5400e-003**	**0.0966**	**3.2000e-004**	**0.0411**	**1.6000e-004**	**0.0412**	**0.0109**	**1.5000e-004**	**0.0110**		**32.6068**	**32.6068**	**6.6000e-004**	**7.1000e-004**	**32.8344**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Access Roads - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3230	8.6699	8.7447	0.0365		0.3039	0.3039		0.2796	0.2796		3,534.6323	3,534.6323	1.1432		3,563.2116
Total	**1.3230**	**8.6699**	**8.7447**	**0.0365**	**0.0000**	**0.3039**	**0.3039**	**0.0000**	**0.2796**	**0.2796**		**3,534.6323**	**3,534.6323**	**1.1432**		**3,563.2116**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3230	8.6699	8.7447	0.0365		0.3039	0.3039		0.2796	0.2796	0.0000	3,534.6323	3,534.6323	1.1432		3,563.2116
Total	**1.3230**	**8.6699**	**8.7447**	**0.0365**	**0.0000**	**0.3039**	**0.3039**	**0.0000**	**0.2796**	**0.2796**	**0.0000**	**3,534.6323**	**3,534.6323**	**1.1432**		**3,563.2116**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.2275	0.0000	18.2275	9.9481	0.0000	9.9481			0.0000			0.0000
Off-Road	3.8054	29.1367	26.0621	0.0924		1.1178	1.1178		1.0284	1.0284		8,945.7685	8,945.7685	2.8932		9,018.0995
Total	**3.8054**	**29.1367**	**26.0621**	**0.0924**	**18.2275**	**1.1178**	**19.3453**	**9.9481**	**1.0284**	**10.9765**		**8,945.7685**	**8,945.7685**	**2.8932**		**9,018.0995**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2024	0.0000	8.2024	4.4766	0.0000	4.4766			0.0000			0.0000
Off-Road	3.8054	29.1367	26.0621	0.0924		1.1178	1.1178		1.0284	1.0284	0.0000	8,945.7684	8,945.7684	2.8932		9,018.0995
Total	**3.8054**	**29.1367**	**26.0621**	**0.0924**	**8.2024**	**1.1178**	**9.3202**	**4.4766**	**1.0284**	**5.5050**	**0.0000**	**8,945.7684**	**8,945.7684**	**2.8932**		**9,018.0995**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Underground 12 kV Line Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8826	6.5475	6.7224	0.0232		0.2981	0.2981		0.2742	0.2742		2,246.5463	2,246.5463	0.7266		2,264.7107
Total	**0.8826**	**6.5475**	**6.7224**	**0.0232**		**0.2981**	**0.2981**		**0.2742**	**0.2742**		**2,246.5463**	**2,246.5463**	**0.7266**		**2,264.7107**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0242**	**0.0111**	**0.1932**	**6.5000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**65.2136**	**65.2136**	**1.3100e-003**	**1.4200e-003**	**65.6688**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8826	6.5475	6.7224	0.0232		0.2981	0.2981		0.2742	0.2742	0.0000	2,246.5463	2,246.5463	0.7266		2,264.7107
Total	**0.8826**	**6.5475**	**6.7224**	**0.0232**		**0.2981**	**0.2981**		**0.2742**	**0.2742**	**0.0000**	**2,246.5463**	**2,246.5463**	**0.7266**		**2,264.7107**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0242**	**0.0111**	**0.1932**	**6.5000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**65.2136**	**65.2136**	**1.3100e-003**	**1.4200e-003**	**65.6688**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Fence and Gate Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2978	8.3156	9.8858	0.0365		0.2898	0.2898		0.2666	0.2666		3,533.0376	3,533.0376	1.1427		3,561.6040
Total	**1.2978**	**8.3156**	**9.8858**	**0.0365**	**0.0000**	**0.2898**	**0.2898**	**0.0000**	**0.2666**	**0.2666**		**3,533.0376**	**3,533.0376**	**1.1427**		**3,561.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0242**	**0.0111**	**0.1932**	**6.5000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**65.2136**	**65.2136**	**1.3100e-003**	**1.4200e-003**	**65.6688**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2978	8.3156	9.8858	0.0365		0.2898	0.2898		0.2666	0.2666	0.0000	3,533.0376	3,533.0376	1.1427		3,561.6040
Total	**1.2978**	**8.3156**	**9.8858**	**0.0365**	**0.0000**	**0.2898**	**0.2898**	**0.0000**	**0.2666**	**0.2666**	**0.0000**	**3,533.0376**	**3,533.0376**	**1.1427**		**3,561.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0242**	**0.0111**	**0.1932**	**6.5000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**65.2136**	**65.2136**	**1.3100e-003**	**1.4200e-003**	**65.6688**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3677	11.6893	8.3465	0.0314		0.4696	0.4696		0.4321	0.4321		3,040.3772	3,040.3772	0.9833		3,064.9602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3677**	**11.6893**	**8.3465**	**0.0314**		**0.4696**	**0.4696**		**0.4321**	**0.4321**		**3,040.3772**	**3,040.3772**	**0.9833**		**3,064.9602**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3677	11.6893	8.3465	0.0314		0.4696	0.4696		0.4321	0.4321	0.0000	3,040.3772	3,040.3772	0.9833		3,064.9602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3677**	**11.6893**	**8.3465**	**0.0314**		**0.4696**	**0.4696**		**0.4321**	**0.4321**	**0.0000**	**3,040.3772**	**3,040.3772**	**0.9833**		**3,064.9602**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0485	0.0222	0.3864	1.2900e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		130.4271	130.4271	2.6200e-003	2.8400e-003	131.3376
Total	**0.0485**	**0.0222**	**0.3864**	**1.2900e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**130.4271**	**130.4271**	**2.6200e-003**	**2.8400e-003**	**131.3376**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.8 Ground/Grid Circuit Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4805	3.6779	3.5608	9.3200e-003		0.1996	0.1996		0.1836	0.1836		902.0587	902.0587	0.2917		909.3523
Total	**0.4805**	**3.6779**	**3.5608**	**9.3200e-003**		**0.1996**	**0.1996**		**0.1836**	**0.1836**		**902.0587**	**902.0587**	**0.2917**		**909.3523**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0464**	**0.9287**	**0.4578**	**4.7600e-003**	**8.1336**	**6.5200e-003**	**8.1401**	**0.8528**	**6.2200e-003**	**0.8590**		**499.3390**	**499.3390**	**3.3000e-003**	**0.0667**	**519.2951**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4805	3.6779	3.5608	9.3200e-003		0.1996	0.1996		0.1836	0.1836	0.0000	902.0587	902.0587	0.2917		909.3523
Total	**0.4805**	**3.6779**	**3.5608**	**9.3200e-003**		**0.1996**	**0.1996**		**0.1836**	**0.1836**	**0.0000**	**902.0587**	**902.0587**	**0.2917**		**909.3523**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0464**	**0.9287**	**0.4578**	**4.7600e-003**	**8.1336**	**6.5200e-003**	**8.1401**	**0.8528**	**6.2200e-003**	**0.8590**		**499.3390**	**499.3390**	**3.3000e-003**	**0.0667**	**519.2951**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.9 Transformer Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6062	10.8868	10.7247	0.0406		0.3947	0.3947		0.3656	0.3656		3,891.0050	3,891.0050	1.2102		3,921.2610
Total	**1.6062**	**10.8868**	**10.7247**	**0.0406**		**0.3947**	**0.3947**		**0.3656**	**0.3656**		**3,891.0050**	**3,891.0050**	**1.2102**		**3,921.2610**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0388	0.0177	0.3091	1.0300e-003	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		104.3417	104.3417	2.1000e-003	2.2700e-003	105.0701
Total	**0.0609**	**0.9353**	**0.5737**	**5.1400e-003**	**10.0893**	**6.7100e-003**	**10.0960**	**1.0559**	**6.4000e-003**	**1.0623**		**538.4672**	**538.4672**	**4.0900e-003**	**0.0675**	**558.6964**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6062	10.8868	10.7247	0.0406		0.3947	0.3947		0.3656	0.3656	0.0000	3,891.0050	3,891.0050	1.2102		3,921.2609
Total	**1.6062**	**10.8868**	**10.7247**	**0.0406**		**0.3947**	**0.3947**		**0.3656**	**0.3656**	**0.0000**	**3,891.0050**	**3,891.0050**	**1.2102**		**3,921.2609**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0388	0.0177	0.3091	1.0300e-003	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		104.3417	104.3417	2.1000e-003	2.2700e-003	105.0701
Total	**0.0609**	**0.9353**	**0.5737**	**5.1400e-003**	**10.0893**	**6.7100e-003**	**10.0960**	**1.0559**	**6.4000e-003**	**1.0623**		**538.4672**	**538.4672**	**4.0900e-003**	**0.0675**	**558.6964**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.10 Steel/Bus Erection - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5930	3.7956	4.6030	0.0170		0.1284	0.1284		0.1181	0.1181		1,642.3962	1,642.3962	0.5312		1,655.6758
Total	**0.5930**	**3.7956**	**4.6030**	**0.0170**		**0.1284**	**0.1284**		**0.1181**	**0.1181**		**1,642.3962**	**1,642.3962**	**0.5312**		**1,655.6758**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0464**	**0.9287**	**0.4578**	**4.7600e-003**	**8.1336**	**6.5200e-003**	**8.1401**	**0.8528**	**6.2200e-003**	**0.8590**		**499.3390**	**499.3390**	**3.3000e-003**	**0.0667**	**519.2951**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5930	3.7956	4.6030	0.0170		0.1284	0.1284		0.1181	0.1181	0.0000	1,642.3962	1,642.3962	0.5312		1,655.6758
Total	**0.5930**	**3.7956**	**4.6030**	**0.0170**		**0.1284**	**0.1284**		**0.1181**	**0.1181**	**0.0000**	**1,642.3962**	**1,642.3962**	**0.5312**		**1,655.6758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0242	0.0111	0.1932	6.5000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		65.2136	65.2136	1.3100e-003	1.4200e-003	65.6688
Total	**0.0464**	**0.9287**	**0.4578**	**4.7600e-003**	**8.1336**	**6.5200e-003**	**8.1401**	**0.8528**	**6.2200e-003**	**0.8590**		**499.3390**	**499.3390**	**3.3000e-003**	**0.0667**	**519.2951**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.11 Yard Rock Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5628	3.9042	4.9828	0.0162		0.1322	0.1322		0.1216	0.1216		1,563.3879	1,563.3879	0.5056		1,576.0287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5628**	**3.9042**	**4.9828**	**0.0162**		**0.1322**	**0.1322**		**0.1216**	**0.1216**		**1,563.3879**	**1,563.3879**	**0.5056**		**1,576.0287**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0388	0.0177	0.3091	1.0300e-003	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		104.3417	104.3417	2.1000e-003	2.2700e-003	105.0701
Total	**0.0388**	**0.0177**	**0.3091**	**1.0300e-003**	**5.2153**	**5.1000e-004**	**5.2158**	**0.5418**	**4.7000e-004**	**0.5423**		**104.3417**	**104.3417**	**2.1000e-003**	**2.2700e-003**	**105.0701**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5628	3.9042	4.9828	0.0162		0.1322	0.1322		0.1216	0.1216	0.0000	1,563.3879	1,563.3879	0.5056		1,576.0287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5628**	**3.9042**	**4.9828**	**0.0162**		**0.1322**	**0.1322**		**0.1216**	**0.1216**	**0.0000**	**1,563.3879**	**1,563.3879**	**0.5056**		**1,576.0287**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0388	0.0177	0.3091	1.0300e-003	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		104.3417	104.3417	2.1000e-003	2.2700e-003	105.0701
Total	**0.0388**	**0.0177**	**0.3091**	**1.0300e-003**	**5.2153**	**5.1000e-004**	**5.2158**	**0.5418**	**4.7000e-004**	**0.5423**		**104.3417**	**104.3417**	**2.1000e-003**	**2.2700e-003**	**105.0701**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.12 Cleaning and Restoration 1 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6498	5.4570	3.9336	0.0164		0.1828	0.1828		0.1682	0.1682		1,590.9460	1,590.9460	0.5145		1,603.8096
Total	**0.6498**	**5.4570**	**3.9336**	**0.0164**		**0.1828**	**0.1828**		**0.1682**	**0.1682**		**1,590.9460**	**1,590.9460**	**0.5145**		**1,603.8096**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0145	6.6500e-003	0.1159	3.9000e-004	1.9557	1.9000e-004	1.9559	0.2032	1.8000e-004	0.2034		39.1281	39.1281	7.9000e-004	8.5000e-004	39.4013
Total	**0.0367**	**0.9243**	**0.3805**	**4.5000e-003**	**6.8297**	**6.3900e-003**	**6.8361**	**0.7173**	**6.1100e-003**	**0.7234**		**473.2536**	**473.2536**	**2.7800e-003**	**0.0661**	**493.0275**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6498	5.4570	3.9336	0.0164		0.1828	0.1828		0.1682	0.1682	0.0000	1,590.9460	1,590.9460	0.5145		1,603.8096
Total	**0.6498**	**5.4570**	**3.9336**	**0.0164**		**0.1828**	**0.1828**		**0.1682**	**0.1682**	**0.0000**	**1,590.9460**	**1,590.9460**	**0.5145**		**1,603.8096**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0145	6.6500e-003	0.1159	3.9000e-004	1.9557	1.9000e-004	1.9559	0.2032	1.8000e-004	0.2034		39.1281	39.1281	7.9000e-004	8.5000e-004	39.4013
Total	**0.0367**	**0.9243**	**0.3805**	**4.5000e-003**	**6.8297**	**6.3900e-003**	**6.8361**	**0.7173**	**6.1100e-003**	**0.7234**		**473.2536**	**473.2536**	**2.7800e-003**	**0.0661**	**493.0275**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.13 Remaining Deliveries, Installations, Testing and Commissioning 1 -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441		2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**		**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0727	0.0332	0.5796	1.9400e-003	9.7786	9.5000e-004	9.7796	1.0159	8.8000e-004	1.0168		195.6407	195.6407	3.9400e-003	4.2500e-003	197.0065
Total	**0.0948**	**0.9508**	**0.8442**	**6.0500e-003**	**14.6526**	**7.1500e-003**	**14.6598**	**1.5301**	**6.8100e-003**	**1.5369**		**629.7661**	**629.7661**	**5.9300e-003**	**0.0695**	**650.6327**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441	0.0000	2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**	**0.0000**	**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0221	0.9176	0.2646	4.1100e-003	4.8740	6.2000e-003	4.8802	0.5141	5.9300e-003	0.5200		434.1255	434.1255	1.9900e-003	0.0653	453.6262
Worker	0.0727	0.0332	0.5796	1.9400e-003	9.7786	9.5000e-004	9.7796	1.0159	8.8000e-004	1.0168		195.6407	195.6407	3.9400e-003	4.2500e-003	197.0065
Total	**0.0948**	**0.9508**	**0.8442**	**6.0500e-003**	**14.6526**	**7.1500e-003**	**14.6598**	**1.5301**	**6.8100e-003**	**1.5369**		**629.7661**	**629.7661**	**5.9300e-003**	**0.0695**	**650.6327**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.14 Cleaning and Restoration 2 - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9644	9.0364	5.0782	0.0182		0.3536	0.3536		0.3253	0.3253		1,756.9497	1,756.9497	0.5682		1,771.1555
Total	**0.9644**	**9.0364**	**5.0782**	**0.0182**		**0.3536**	**0.3536**		**0.3253**	**0.3253**		**1,756.9497**	**1,756.9497**	**0.5682**		**1,771.1555**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9644	9.0364	5.0782	0.0182		0.3536	0.3536		0.3253	0.3253	0.0000	1,756.9497	1,756.9497	0.5682		1,771.1555
Total	**0.9644**	**9.0364**	**5.0782**	**0.0182**		**0.3536**	**0.3536**		**0.3253**	**0.3253**	**0.0000**	**1,756.9497**	**1,756.9497**	**0.5682**		**1,771.1555**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.15 Remaining Deliveries, Installations, Testing and Commissioning 2 -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441		2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**		**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441	0.0000	2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**	**0.0000**	**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.554122	0.053376	0.171995	0.136171	0.022603	0.005710	0.012724	0.016721	0.000451	0.000316	0.021848	0.001050	0.002914

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
NaturalGas Unmitigated	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6704.69	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Total		**0.0723**	**0.6573**	**0.5522**	**3.9400e-003**		**0.0500**	**0.0500**		**0.0500**	**0.0500**		**788.7870**	**788.7870**	**0.0151**	**0.0145**	**793.4744**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.70469	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Total		**0.0723**	**0.6573**	**0.5522**	**3.9400e-003**		**0.0500**	**0.0500**		**0.0500**	**0.0500**		**788.7870**	**788.7870**	**0.0151**	**0.0145**	**793.4744**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Unmitigated	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.8397**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.8397**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**0.2388**	**1.4330**	**1.5927**	**6.6100e-003**		**0.0512**	**0.0512**		**0.0471**	**0.0471**	**0.0000**	**639.8377**	**639.8377**	**0.2069**		**645.0111**

Lodi Substation - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Lodi Substation

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	132.64	1000sqft	4.60	132,640.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2028
Utility Company					
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific info

Land Use - 4.6 acres of disturbed area per grading plan

Construction Phase - Project-specific timeline.

Off-road Equipment - Project-specific Information.

Off-road Equipment -

Off-road Equipment - Project-specific info

Off-road Equipment - Project-specific

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific equipment list used in lieu of CalEEMod defaults.

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific value

Off-road Equipment - project-specific information

Off-road Equipment - Site-specific info

Off-road Equipment - Project-specific information

Trips and VMT - Project-specific worker trips

On-road Fugitive Dust - Only a small portion of the construction access road surfaces surrounding the project will be unpaved, therefore 98% pavement is assumed.

Grading - Site-specific area.

Vehicle Trips - Unmanned operation and no daily worker trips will occur

Vehicle Emission Factors -

Vehicle Emission Factors -

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project.

Landscape Equipment -

Energy Use -

Water And Wastewater - Unmanned facility - no water use is expected

Solid Waste - Unmanned facility - no solid waste generation is expected

Construction Off-road Equipment Mitigation - Tier 3 compliant engines are assumed for the project

Watering of exposed areas is assumed

Operational Off-Road Equipment - Assumes monthly inspection utilizing one off-highway truck 4 hours per day.

Fleet Mix -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Off-road Equipment - Project specific equipment

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	230.00	40.00
tblConstructionPhase	NumDays	18.00	40.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	5.00	28.00
tblConstructionPhase	NumDays	230.00	10.00
tblConstructionPhase	NumDays	230.00	20.00
tblGrading	AcresOfGrading	120.00	3.04
tblLandUse	LandUseSquareFeet	132,640.00	132,640.20
tblLandUse	LotAcreage	3.04	4.60
tblOffRoadEquipment	HorsePower	84.00	34.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	HorsePower	402.00	275.00
tblOffRoadEquipment	LoadFactor	0.38	0.44
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Steel/Bus Erection
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 1
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Survey
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Transformer Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Fence and Gate Installation
tblOffRoadEquipment	PhaseName		Yard Rock Installation
tblOffRoadEquipment	PhaseName		Foundation
tblOffRoadEquipment	PhaseName		Access Roads
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 1
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Underground 12 kV Line Installation
tblOffRoadEquipment	PhaseName		Ground/Grid Circuit Installation
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Cleaning and Restoration 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	PhaseName		Remaining Deliveries, Installations, Testing and Commissioning 2
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	HaulingPercentPave	100.00	98.00
tblOnRoadDust	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblOnRoadDust	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	VendorPercentPave	100.00	98.00

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblOnRoadDust	VendorPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOnRoadDust	WorkerPercentPave	100.00	98.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	164.47	0.00
tblTripsAndVMT	PhaseName	Remaining Deliveries, Installations, Testing and Commissioning	Remaining Deliveries, Installations, Testing and Commissioning 1
tblTripsAndVMT	PhaseName	Cleaning and Restoration	Cleaning and Restoration 1
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	30.00
tblTripsAndVMT	WorkerTripNumber	56.00	6.00
tblTripsAndVMT	WorkerTripNumber	38.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	56.00	10.00
tblTripsAndVMT	WorkerTripNumber	56.00	16.00

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.00
tblWater	IndoorWaterUseRate	30,673,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	6.1261	44.4211	42.4102	0.1551	34.5252	1.7213	36.2465	11.6413	1.5836	13.2249	0.0000	15,021.8741	15,021.8741	4.7706	0.2021	15,143.5356
2028	1.9596	16.2140	12.1018	0.0441	0.0000	0.6189	0.6189	0.0000	0.5694	0.5694	0.0000	4,267.6839	4,267.6839	1.3803	0.0000	4,302.1903
Maximum	**6.1261**	**44.4211**	**42.4102**	**0.1551**	**34.5252**	**1.7213**	**36.2465**	**11.6413**	**1.5836**	**13.2249**	**0.0000**	**15,021.8741**	**15,021.8741**	**4.7706**	**0.2021**	**15,143.5356**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	6.1261	44.4211	42.4102	0.1551	26.3564	1.7213	27.0988	6.1699	1.5836	7.7535	0.0000	15,021.8741	15,021.8741	4.7706	0.2021	15,143.5356
2028	1.9596	16.2140	12.1018	0.0441	0.0000	0.6189	0.6189	0.0000	0.5694	0.5694	0.0000	4,267.6839	4,267.6839	1.3803	0.0000	4,302.1903
Maximum	**6.1261**	**44.4211**	**42.4102**	**0.1551**	**26.3564**	**1.7213**	**27.0988**	**6.1699**	**1.5836**	**7.7535**	**0.0000**	**15,021.8741**	**15,021.8741**	**4.7706**	**0.2021**	**15,143.5356**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**23.66**	**0.00**	**24.81**	**47.00**	**0.00**	**39.66**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**3.1508**	**2.0905**	**2.1584**	**0.0106**	**0.0000**	**0.1012**	**0.1012**	**0.0000**	**0.0971**	**0.0971**	**0.0000**	**1,428.6538**	**1,428.6538**	**0.2221**	**0.0145**	**1,438.5164**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**3.1508**	**2.0905**	**2.1584**	**0.0106**	**0.0000**	**0.1012**	**0.1012**	**0.0000**	**0.0971**	**0.0971**	**0.0000**	**1,428.6538**	**1,428.6538**	**0.2221**	**0.0145**	**1,438.5164**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey	Site Preparation	2/1/2027	2/26/2027	5	20	
2	Access Roads	Site Preparation	3/1/2027	3/26/2027	5	20	
3	Site Preparation	Site Preparation	3/1/2027	3/26/2027	5	20	
4	Underground 12 kV Line Installation	Trenching	3/1/2027	3/12/2027	5	10	
5	Fence and Gate Installation	Site Preparation	4/1/2027	5/10/2027	5	28	
6	Foundation	Paving	5/1/2027	6/27/2027	5	40	
7	Ground/Grid Circuit Installation	Building Construction	6/1/2027	7/26/2027	5	40	
8	Transformer Installation	Building Construction	7/1/2027	8/25/2027	5	40	
9	Steel/Bus Erection	Building Construction	7/1/2027	8/25/2027	5	40	
10	Yard Rock Installation	Paving	9/1/2027	9/28/2027	5	20	
11	Cleaning and Restoration 1	Building Construction	10/1/2027	10/14/2027	5	10	
12	Remaining Deliveries, Installations, Testing and Commissioning 1	Building Construction	11/1/2027	12/24/2027	5	40	
13	Cleaning and Restoration 2	Building Construction	2/1/2028	2/14/2028	5	10	
14	Remaining Deliveries, Installations, Testing and Commissioning 2	Building Construction	2/1/2028	2/28/2028	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Access Roads	Off-Highway Trucks	4	6.00	275	0.38
Access Roads	Rubber Tired Loaders	2	6.00	203	0.36
Site Preparation	Graders	1	6.00	187	0.41
Site Preparation	Off-Highway Trucks	9	6.00	275	0.38
Site Preparation	Rollers	2	6.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Site Preparation	Scrapers	1	6.00	367	0.48
Survey	Off-Highway Trucks	2	6.00	275	0.38
Fence and Gate Installation	Off-Highway Trucks	5	6.00	275	0.38
Fence and Gate Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Underground 12 kV Line Installation	Bore/Drill Rigs	1	6.00	221	0.50
Underground 12 kV Line Installation	Off-Highway Trucks	2	6.00	275	0.38
Underground 12 kV Line Installation	Trenchers	1	6.00	78	0.50
Ground/Grid Circuit Installation	Off-Highway Trucks	1	6.00	275	0.38
Ground/Grid Circuit Installation	Trenchers	1	6.00	78	0.50
Transformer Installation	Cranes	1	6.00	231	0.29
Transformer Installation	Generator Sets	1	6.00	34	0.74
Transformer Installation	Off-Highway Trucks	5	6.00	275	0.38
Steel/Bus Erection	Aerial Lifts	1	6.00	63	0.31
Steel/Bus Erection	Off-Highway Trucks	2	6.00	275	0.44
Remaining Deliveries, Installations, Testing and Commissioning 1	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 1	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 1	Off-Highway Trucks	3	6.00	275	0.38
Cleaning and Restoration 1	Graders	1	6.00	187	0.41
Cleaning and Restoration 1	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 1	Rubber Tired Loaders	1	6.00	203	0.36
Foundation	Bore/Drill Rigs	1	6.00	221	0.50
Foundation	Cranes	1	6.00	231	0.29
Foundation	Off-Highway Trucks	2	6.00	275	0.38
Foundation	Rubber Tired Dozers	1	6.00	247	0.40
Yard Rock Installation	Off-Highway Trucks	2	6.00	275	0.38
Yard Rock Installation	Rough Terrain Forklifts	1	6.00	100	0.40
Cleaning and Restoration 2	Graders	1	6.00	187	0.41

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Cleaning and Restoration 2	Off-Highway Trucks	1	6.00	275	0.38
Cleaning and Restoration 2	Rubber Tired Dozers	1	6.00	247	0.40
Remaining Deliveries, Installations, Testing and Commissioning 2	Aerial Lifts	1	6.00	63	0.31
Remaining Deliveries, Installations, Testing and Commissioning 2	Cranes	1	6.00	231	0.29
Remaining Deliveries, Installations, Testing and Commissioning 2	Off-Highway Trucks	3	6.00	275	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Access Roads	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	15	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Survey	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fence and Gate Installation	6	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground 12 kV Line Installation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ground/Grid Circuit Installation	2	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Transformer Installation	7	16.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Steel/Bus Erection	3	10.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remaining Deliveries, Installations, Testing and Commissioning 1	5	30.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 1	3	6.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundation	5	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Yard Rock Installation	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 2										
Remaining Deliveries, Installations, Testing and Commissioning 2										

3.1 Mitigation Measures Construction

Water Exposed Area

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Survey - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4901	2.9409	3.2687	0.0136		0.1051	0.1051		0.0967	0.0967		1,313.0998	1,313.0998	0.4247		1,323.7169
Total	**0.4901**	**2.9409**	**3.2687**	**0.0136**	**0.0000**	**0.1051**	**0.1051**	**0.0000**	**0.0967**	**0.0967**		**1,313.0998**	**1,313.0998**	**0.4247**		**1,323.7169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	6.7000e-003	0.0881	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0110		29.4927	29.4927	7.6000e-004	8.0000e-004	29.7514
Total	**0.0115**	**6.7000e-003**	**0.0881**	**2.9000e-004**	**0.0411**	**1.6000e-004**	**0.0412**	**0.0109**	**1.5000e-004**	**0.0110**		**29.4927**	**29.4927**	**7.6000e-004**	**8.0000e-004**	**29.7514**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4901	2.9409	3.2687	0.0136		0.1051	0.1051		0.0967	0.0967	0.0000	1,313.0998	1,313.0998	0.4247		1,323.7169
Total	**0.4901**	**2.9409**	**3.2687**	**0.0136**	**0.0000**	**0.1051**	**0.1051**	**0.0000**	**0.0967**	**0.0967**	**0.0000**	**1,313.0998**	**1,313.0998**	**0.4247**		**1,323.7169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	6.7000e-003	0.0881	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0110		29.4927	29.4927	7.6000e-004	8.0000e-004	29.7514
Total	**0.0115**	**6.7000e-003**	**0.0881**	**2.9000e-004**	**0.0411**	**1.6000e-004**	**0.0412**	**0.0109**	**1.5000e-004**	**0.0110**		**29.4927**	**29.4927**	**7.6000e-004**	**8.0000e-004**	**29.7514**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Access Roads - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3230	8.6699	8.7447	0.0365		0.3039	0.3039		0.2796	0.2796		3,534.6323	3,534.6323	1.1432		3,563.2116
Total	**1.3230**	**8.6699**	**8.7447**	**0.0365**	**0.0000**	**0.3039**	**0.3039**	**0.0000**	**0.2796**	**0.2796**		**3,534.6323**	**3,534.6323**	**1.1432**		**3,563.2116**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3230	8.6699	8.7447	0.0365		0.3039	0.3039		0.2796	0.2796	0.0000	3,534.6323	3,534.6323	1.1432		3,563.2116
Total	**1.3230**	**8.6699**	**8.7447**	**0.0365**	**0.0000**	**0.3039**	**0.3039**	**0.0000**	**0.2796**	**0.2796**	**0.0000**	**3,534.6323**	**3,534.6323**	**1.1432**		**3,563.2116**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.2275	0.0000	18.2275	9.9481	0.0000	9.9481			0.0000			0.0000
Off-Road	3.8054	29.1367	26.0621	0.0924		1.1178	1.1178		1.0284	1.0284		8,945.7685	8,945.7685	2.8932		9,018.0995
Total	**3.8054**	**29.1367**	**26.0621**	**0.0924**	**18.2275**	**1.1178**	**19.3453**	**9.9481**	**1.0284**	**10.9765**		**8,945.7685**	**8,945.7685**	**2.8932**		**9,018.0995**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2024	0.0000	8.2024	4.4766	0.0000	4.4766			0.0000			0.0000
Off-Road	3.8054	29.1367	26.0621	0.0924		1.1178	1.1178		1.0284	1.0284	0.0000	8,945.7684	8,945.7684	2.8932		9,018.0995
Total	**3.8054**	**29.1367**	**26.0621**	**0.0924**	**8.2024**	**1.1178**	**9.3202**	**4.4766**	**1.0284**	**5.5050**	**0.0000**	**8,945.7684**	**8,945.7684**	**2.8932**		**9,018.0995**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

3.5 Underground 12 kV Line Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8826	6.5475	6.7224	0.0232		0.2981	0.2981		0.2742	0.2742		2,246.5463	2,246.5463	0.7266		2,264.7107
Total	**0.8826**	**6.5475**	**6.7224**	**0.0232**		**0.2981**	**0.2981**		**0.2742**	**0.2742**		**2,246.5463**	**2,246.5463**	**0.7266**		**2,264.7107**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0230**	**0.0134**	**0.1762**	**5.8000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**58.9854**	**58.9854**	**1.5200e-003**	**1.6100e-003**	**59.5028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8826	6.5475	6.7224	0.0232		0.2981	0.2981		0.2742	0.2742	0.0000	2,246.5463	2,246.5463	0.7266		2,264.7107
Total	**0.8826**	**6.5475**	**6.7224**	**0.0232**		**0.2981**	**0.2981**		**0.2742**	**0.2742**	**0.0000**	**2,246.5463**	**2,246.5463**	**0.7266**		**2,264.7107**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0230**	**0.0134**	**0.1762**	**5.8000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**58.9854**	**58.9854**	**1.5200e-003**	**1.6100e-003**	**59.5028**

3.6 Fence and Gate Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2978	8.3156	9.8858	0.0365		0.2898	0.2898		0.2666	0.2666		3,533.0376	3,533.0376	1.1427		3,561.6040
Total	**1.2978**	**8.3156**	**9.8858**	**0.0365**	**0.0000**	**0.2898**	**0.2898**	**0.0000**	**0.2666**	**0.2666**		**3,533.0376**	**3,533.0376**	**1.1427**		**3,561.6040**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0230**	**0.0134**	**0.1762**	**5.8000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**58.9854**	**58.9854**	**1.5200e-003**	**1.6100e-003**	**59.5028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2978	8.3156	9.8858	0.0365		0.2898	0.2898		0.2666	0.2666	0.0000	3,533.0376	3,533.0376	1.1427		3,561.6040
Total	**1.2978**	**8.3156**	**9.8858**	**0.0365**	**0.0000**	**0.2898**	**0.2898**	**0.0000**	**0.2666**	**0.2666**	**0.0000**	**3,533.0376**	**3,533.0376**	**1.1427**		**3,561.6040**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0230**	**0.0134**	**0.1762**	**5.8000e-004**	**3.2596**	**3.2000e-004**	**3.2599**	**0.3387**	**2.9000e-004**	**0.3389**		**58.9854**	**58.9854**	**1.5200e-003**	**1.6100e-003**	**59.5028**

3.7 Foundation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3677	11.6893	8.3465	0.0314		0.4696	0.4696		0.4321	0.4321		3,040.3772	3,040.3772	0.9833		3,064.9602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3677**	**11.6893**	**8.3465**	**0.0314**		**0.4696**	**0.4696**		**0.4321**	**0.4321**		**3,040.3772**	**3,040.3772**	**0.9833**		**3,064.9602**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3677	11.6893	8.3465	0.0314		0.4696	0.4696		0.4321	0.4321	0.0000	3,040.3772	3,040.3772	0.9833		3,064.9602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3677**	**11.6893**	**8.3465**	**0.0314**		**0.4696**	**0.4696**		**0.4321**	**0.4321**	**0.0000**	**3,040.3772**	**3,040.3772**	**0.9833**		**3,064.9602**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0268	0.3524	1.1700e-003	6.5191	6.3000e-004	6.5197	0.6773	5.8000e-004	0.6779		117.9708	117.9708	3.0300e-003	3.2200e-003	119.0055
Total	**0.0461**	**0.0268**	**0.3524**	**1.1700e-003**	**6.5191**	**6.3000e-004**	**6.5197**	**0.6773**	**5.8000e-004**	**0.6779**		**117.9708**	**117.9708**	**3.0300e-003**	**3.2200e-003**	**119.0055**

3.8 Ground/Grid Circuit Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4805	3.6779	3.5608	9.3200e-003		0.1996	0.1996		0.1836	0.1836		902.0587	902.0587	0.2917		909.3523
Total	**0.4805**	**3.6779**	**3.5608**	**9.3200e-003**		**0.1996**	**0.1996**		**0.1836**	**0.1836**		**902.0587**	**902.0587**	**0.2917**		**909.3523**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0438**	**0.9943**	**0.4501**	**4.6900e-003**	**8.1336**	**6.5400e-003**	**8.1401**	**0.8528**	**6.2400e-003**	**0.8590**		**493.9544**	**493.9544**	**3.4500e-003**	**0.0671**	**514.0216**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4805	3.6779	3.5608	9.3200e-003		0.1996	0.1996		0.1836	0.1836	0.0000	902.0587	902.0587	0.2917		909.3523
Total	**0.4805**	**3.6779**	**3.5608**	**9.3200e-003**		**0.1996**	**0.1996**		**0.1836**	**0.1836**	**0.0000**	**902.0587**	**902.0587**	**0.2917**		**909.3523**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0438**	**0.9943**	**0.4501**	**4.6900e-003**	**8.1336**	**6.5400e-003**	**8.1401**	**0.8528**	**6.2400e-003**	**0.8590**		**493.9544**	**493.9544**	**3.4500e-003**	**0.0671**	**514.0216**

3.9 Transformer Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6062	10.8868	10.7247	0.0406		0.3947	0.3947		0.3656	0.3656		3,891.0050	3,891.0050	1.2102		3,921.2610
Total	**1.6062**	**10.8868**	**10.7247**	**0.0406**		**0.3947**	**0.3947**		**0.3656**	**0.3656**		**3,891.0050**	**3,891.0050**	**1.2102**		**3,921.2610**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0369	0.0214	0.2820	9.3000e-004	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		94.3767	94.3767	2.4300e-003	2.5700e-003	95.2044
Total	**0.0576**	**1.0024**	**0.5559**	**5.0400e-003**	**10.0893**	**6.7300e-003**	**10.0960**	**1.0559**	**6.4200e-003**	**1.0624**		**529.3457**	**529.3457**	**4.3600e-003**	**0.0680**	**549.7233**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6062	10.8868	10.7247	0.0406		0.3947	0.3947		0.3656	0.3656	0.0000	3,891.0050	3,891.0050	1.2102		3,921.2609
Total	**1.6062**	**10.8868**	**10.7247**	**0.0406**		**0.3947**	**0.3947**		**0.3656**	**0.3656**	**0.0000**	**3,891.0050**	**3,891.0050**	**1.2102**		**3,921.2609**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0369	0.0214	0.2820	9.3000e-004	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		94.3767	94.3767	2.4300e-003	2.5700e-003	95.2044
Total	**0.0576**	**1.0024**	**0.5559**	**5.0400e-003**	**10.0893**	**6.7300e-003**	**10.0960**	**1.0559**	**6.4200e-003**	**1.0624**		**529.3457**	**529.3457**	**4.3600e-003**	**0.0680**	**549.7233**

3.10 Steel/Bus Erection - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5930	3.7956	4.6030	0.0170		0.1284	0.1284		0.1181	0.1181		1,642.3962	1,642.3962	0.5312		1,655.6758
Total	**0.5930**	**3.7956**	**4.6030**	**0.0170**		**0.1284**	**0.1284**		**0.1181**	**0.1181**		**1,642.3962**	**1,642.3962**	**0.5312**		**1,655.6758**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0438**	**0.9943**	**0.4501**	**4.6900e-003**	**8.1336**	**6.5400e-003**	**8.1401**	**0.8528**	**6.2400e-003**	**0.8590**		**493.9544**	**493.9544**	**3.4500e-003**	**0.0671**	**514.0216**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5930	3.7956	4.6030	0.0170		0.1284	0.1284		0.1181	0.1181	0.0000	1,642.3962	1,642.3962	0.5312		1,655.6758
Total	**0.5930**	**3.7956**	**4.6030**	**0.0170**		**0.1284**	**0.1284**		**0.1181**	**0.1181**	**0.0000**	**1,642.3962**	**1,642.3962**	**0.5312**		**1,655.6758**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0230	0.0134	0.1762	5.8000e-004	3.2596	3.2000e-004	3.2599	0.3387	2.9000e-004	0.3389		58.9854	58.9854	1.5200e-003	1.6100e-003	59.5028
Total	**0.0438**	**0.9943**	**0.4501**	**4.6900e-003**	**8.1336**	**6.5400e-003**	**8.1401**	**0.8528**	**6.2400e-003**	**0.8590**		**493.9544**	**493.9544**	**3.4500e-003**	**0.0671**	**514.0216**

3.11 Yard Rock Installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5628	3.9042	4.9828	0.0162		0.1322	0.1322		0.1216	0.1216		1,563.3879	1,563.3879	0.5056		1,576.0287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5628**	**3.9042**	**4.9828**	**0.0162**		**0.1322**	**0.1322**		**0.1216**	**0.1216**		**1,563.3879**	**1,563.3879**	**0.5056**		**1,576.0287**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0369	0.0214	0.2820	9.3000e-004	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		94.3767	94.3767	2.4300e-003	2.5700e-003	95.2044
Total	**0.0369**	**0.0214**	**0.2820**	**9.3000e-004**	**5.2153**	**5.1000e-004**	**5.2158**	**0.5418**	**4.7000e-004**	**0.5423**		**94.3767**	**94.3767**	**2.4300e-003**	**2.5700e-003**	**95.2044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5628	3.9042	4.9828	0.0162		0.1322	0.1322		0.1216	0.1216	0.0000	1,563.3879	1,563.3879	0.5056		1,576.0287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5628**	**3.9042**	**4.9828**	**0.0162**		**0.1322**	**0.1322**		**0.1216**	**0.1216**	**0.0000**	**1,563.3879**	**1,563.3879**	**0.5056**		**1,576.0287**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0369	0.0214	0.2820	9.3000e-004	5.2153	5.1000e-004	5.2158	0.5418	4.7000e-004	0.5423		94.3767	94.3767	2.4300e-003	2.5700e-003	95.2044
Total	**0.0369**	**0.0214**	**0.2820**	**9.3000e-004**	**5.2153**	**5.1000e-004**	**5.2158**	**0.5418**	**4.7000e-004**	**0.5423**		**94.3767**	**94.3767**	**2.4300e-003**	**2.5700e-003**	**95.2044**

3.12 Cleaning and Restoration 1 - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6498	5.4570	3.9336	0.0164		0.1828	0.1828		0.1682	0.1682		1,590.9460	1,590.9460	0.5145		1,603.8096
Total	**0.6498**	**5.4570**	**3.9336**	**0.0164**		**0.1828**	**0.1828**		**0.1682**	**0.1682**		**1,590.9460**	**1,590.9460**	**0.5145**		**1,603.8096**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0138	8.0400e-003	0.1057	3.5000e-004	1.9557	1.9000e-004	1.9559	0.2032	1.8000e-004	0.2034		35.3913	35.3913	9.1000e-004	9.7000e-004	35.7017
Total	**0.0345**	**0.9890**	**0.3796**	**4.4600e-003**	**6.8297**	**6.4100e-003**	**6.8361**	**0.7173**	**6.1300e-003**	**0.7234**		**470.3603**	**470.3603**	**2.8400e-003**	**0.0664**	**490.2205**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6498	5.4570	3.9336	0.0164		0.1828	0.1828		0.1682	0.1682	0.0000	1,590.9460	1,590.9460	0.5145		1,603.8096
Total	**0.6498**	**5.4570**	**3.9336**	**0.0164**		**0.1828**	**0.1828**		**0.1682**	**0.1682**	**0.0000**	**1,590.9460**	**1,590.9460**	**0.5145**		**1,603.8096**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0138	8.0400e-003	0.1057	3.5000e-004	1.9557	1.9000e-004	1.9559	0.2032	1.8000e-004	0.2034		35.3913	35.3913	9.1000e-004	9.7000e-004	35.7017
Total	**0.0345**	**0.9890**	**0.3796**	**4.4600e-003**	**6.8297**	**6.4100e-003**	**6.8361**	**0.7173**	**6.1300e-003**	**0.7234**		**470.3603**	**470.3603**	**2.8400e-003**	**0.0664**	**490.2205**

3.13 Remaining Deliveries, Installations, Testing and Commissioning 1 -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441		2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**		**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0691	0.0402	0.5287	1.7500e-003	9.7786	9.5000e-004	9.7796	1.0159	8.8000e-004	1.0168		176.9563	176.9563	4.5500e-003	4.8300e-003	178.5083
Total	**0.0898**	**1.0211**	**0.8026**	**5.8600e-003**	**14.6526**	**7.1700e-003**	**14.6598**	**1.5301**	**6.8300e-003**	**1.5369**		**611.9253**	**611.9253**	**6.4800e-003**	**0.0703**	**633.0271**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441	0.0000	2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**	**0.0000**	**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0207	0.9809	0.2739	4.1100e-003	4.8740	6.2200e-003	4.8802	0.5141	5.9500e-003	0.5201		434.9690	434.9690	1.9300e-003	0.0654	454.5189
Worker	0.0691	0.0402	0.5287	1.7500e-003	9.7786	9.5000e-004	9.7796	1.0159	8.8000e-004	1.0168		176.9563	176.9563	4.5500e-003	4.8300e-003	178.5083
Total	**0.0898**	**1.0211**	**0.8026**	**5.8600e-003**	**14.6526**	**7.1700e-003**	**14.6598**	**1.5301**	**6.8300e-003**	**1.5369**		**611.9253**	**611.9253**	**6.4800e-003**	**0.0703**	**633.0271**

3.14 Cleaning and Restoration 2 - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9644	9.0364	5.0782	0.0182		0.3536	0.3536		0.3253	0.3253		1,756.9497	1,756.9497	0.5682		1,771.1555
Total	**0.9644**	**9.0364**	**5.0782**	**0.0182**		**0.3536**	**0.3536**		**0.3253**	**0.3253**		**1,756.9497**	**1,756.9497**	**0.5682**		**1,771.1555**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9644	9.0364	5.0782	0.0182		0.3536	0.3536		0.3253	0.3253	0.0000	1,756.9497	1,756.9497	0.5682		1,771.1555
Total	**0.9644**	**9.0364**	**5.0782**	**0.0182**		**0.3536**	**0.3536**		**0.3253**	**0.3253**	**0.0000**	**1,756.9497**	**1,756.9497**	**0.5682**		**1,771.1555**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

3.15 Remaining Deliveries, Installations, Testing and Commissioning 2 -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441		2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**		**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9952	7.1777	7.0236	0.0259		0.2653	0.2653		0.2441	0.2441	0.0000	2,510.7342	2,510.7342	0.8120		2,531.0348
Total	**0.9952**	**7.1777**	**7.0236**	**0.0259**		**0.2653**	**0.2653**		**0.2441**	**0.2441**	**0.0000**	**2,510.7342**	**2,510.7342**	**0.8120**		**2,531.0348**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.554122	0.053376	0.171995	0.136171	0.022603	0.005710	0.012724	0.016721	0.000451	0.000316	0.021848	0.001050	0.002914

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
NaturalGas Unmitigated	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6704.69	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Total		**0.0723**	**0.6573**	**0.5522**	**3.9400e-003**		**0.0500**	**0.0500**		**0.0500**	**0.0500**		**788.7870**	**788.7870**	**0.0151**	**0.0145**	**793.4744**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.70469	0.0723	0.6573	0.5522	3.9400e-003		0.0500	0.0500		0.0500	0.0500		788.7870	788.7870	0.0151	0.0145	793.4744
Total		**0.0723**	**0.6573**	**0.5522**	**3.9400e-003**		**0.0500**	**0.0500**		**0.0500**	**0.0500**		**788.7870**	**788.7870**	**0.0151**	**0.0145**	**793.4744**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Unmitigated	2.8397	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.8397**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.8397**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.2388	1.4330	1.5927	6.6100e-003		0.0512	0.0512		0.0471	0.0471	0.0000	639.8377	639.8377	0.2069		645.0111
Total	**0.2388**	**1.4330**	**1.5927**	**6.6100e-003**		**0.0512**	**0.0512**		**0.0471**	**0.0471**	**0.0000**	**639.8377**	**639.8377**	**0.2069**		**645.0111**

Lodi Substation - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

tblProjectCharacteristics

ProjectNar	LocationSt	EMFAC_ID	WindSpee	Precipitatic	ClimateZo	Urbanizatic	Operationa	UtilityCom	CO2Intens	CH4Intens	N2OIntens	TotalPopu	TotalLotAc	UsingHistc	Constructic	UseAdjusted	EMFACFactors
Lodi Subst	C	SJ	2.7	51	2	Urban	2028		641.35	0.029	0.006	0	4.6	0	2027/03/0	0	

PollutantSe	PollutantFu	PollutantName
1	Reactive C	ROG
1	Nitrogen C	NOX
1	Carbon Mo	CO
1	Sulfur Dio	SO2
1	Particulate	PM10
1	Particulate	PM2_5
1	Fugitive Pl	PM10_FUG
1	Fugitive Pl	PM25_FUG
1	Biogenic C	CO2_BIO
1	Non-Bioge	CO2_NBIO
1	Carbon Di	CO2
1	Methane (I	CH4
1	Nitrous Ox	N2O
1	CO2 Equiv	CO2E

LandUseT	LandUseS	LandUseU	LandUseS	LotAcreag	LandUseS	Population	BuildingSp	GreenSpa	RecSwimmingAreaAllowEdit
Industrial	General Li	132.64	1000sqft	4.6	132640.2	0	132640.2	0	0

PhaseNum	PhaseNam	PhaseTyp	PhaseStar	PhaseEnd	NumDays\	NumDays	PhaseDescription
1	Survey	Site Prepa	2027/02/0	2027/02/2	5	20	
2	Access Rc	Site Prepa	2027/03/0	2027/03/2	5	20	
3	Site Prepa	Site Prepa	2027/03/0	2027/03/2	5	20	
4	Undergrou	Trenching	2027/03/0	2027/03/1	5	10	
5	Fence and	Site Prepa	2027/04/0	2027/05/1	5	28	
6	Foundatio	Paving	2027/05/0	2027/06/2	5	40	
7	Ground/Gr	Building C	2027/06/0	2027/07/2	5	40	
8	Transform	Building C	2027/07/0	2027/08/2	5	40	
9	Steel/Bus	Building C	2027/07/0	2027/08/2	5	40	
10	Yard Rock	Paving	2027/09/0	2027/09/2	5	20	
11	Cleaning a	Building C	2027/10/0	2027/10/1	5	10	
12	Remaining	Building C	2027/11/0	2027/12/2	5	40	
13	Cleaning a	Building C	2028/02/0	2028/02/1	5	10	
14	Remaining	Building C	2028/02/0	2028/02/2	5	20	

PhaseNam	OffRoadEc	OffRoadEc	UsageHou	HorsePow	LoadFactor
Survey	Off-Highwa	2	6	275	0.38
Access Ro	Off-Highwa	4	6	275	0.38
Access Ro	Rubber Tir	2	6	203	0.36
Site Prepa	Graders	1	6	187	0.41
Site Prepa	Off-Highwa	9	6	275	0.38
Site Prepa	Rollers	2	6	80	0.38
Site Prepa	Rubber Tir	1	6	247	0.4
Site Prepa	Rubber Tir	1	6	203	0.36
Site Prepa	Scrapers	1	6	367	0.48
Undergrou	Bore/Drill F	1	6	221	0.5
Undergrou	Off-Highwa	2	6	275	0.38
Undergrou	Trenchers	1	6	78	0.5
Fence and	Off-Highwa	5	6	275	0.38
Fence and	Rough Ter	1	6	100	0.4
Foundatio	Bore/Drill F	1	6	221	0.5
Foundatio	Cranes	1	6	231	0.29
Foundatio	Off-Highwa	2	6	275	0.38
Foundatio	Rubber Tir	1	6	247	0.4
Ground/Gr	Off-Highwa	1	6	275	0.38
Ground/Gr	Trenchers	1	6	78	0.5
Transform	Cranes	1	6	231	0.29
Transform	Generator	1	6	34	0.74
Transform	Off-Highwa	5	6	275	0.38
Steel/Bus	Aerial Lifts	1	6	63	0.31
Steel/Bus	Off-Highwa	2	6	275	0.44
Yard Rock	Off-Highwa	2	6	275	0.38
Yard Rock	Rough Ter	1	6	100	0.4
Cleaning a	Graders	1	6	187	0.41
Cleaning a	Off-Highwa	1	6	275	0.38
Cleaning a	Rubber Tir	1	6	203	0.36
Remaining	Aerial Lifts	1	6	63	0.31
Remaining	Cranes	1	6	231	0.29
Remaining	Off-Highwa	3	6	275	0.38
Cleaning a	Graders	1	6	187	0.41
Cleaning a	Off-Highwa	1	6	275	0.38
Cleaning a	Rubber Tir	1	6	247	0.4
Remaining	Aerial Lifts	1	6	63	0.31
Remaining	Cranes	1	6	231	0.29
Remaining	Off-Highwa	3	6	275	0.38

PhaseNam	WorkerTrip	VendorTrip	HaulingTri	WorkerTrip	VendorTrip	HaulingTri	WorkerVel	VendorVel	HaulingVehicleClass
Survey	5	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Access Ro	20	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Site Prepa	20	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Undergrou	10	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Fence and	10	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Foundatio	20	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Ground/Gr	10	22	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Transform	16	22	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Steel/Bus	10	22	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Yard Rock	16	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Cleaning a	6	22	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Remaining	30	22	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT
Cleaning and Restoration 2									
Remaining Deliveries, Installations, Testing and Commissioning 2									

PhaseNam	WorkerPer	VendorPer	HaulingPe	RoadSiltLo	MaterialSil	MaterialMo	AverageVe	MeanVehicleSpeed
Survey	100	100	100	0.1	8.5	0.5	2.4	40
Access Ro	98	98	98	0.1	8.5	0.5	2.4	40
Site Prepa	98	98	98	0.1	8.5	0.5	2.4	40
Undergrou	98	98	98	0.1	8.5	0.5	2.4	40
Fence and	98	98	98	0.1	8.5	0.5	2.4	40
Foundatio	98	98	98	0.1	8.5	0.5	2.4	40
Ground/Gr	98	98	98	0.1	8.5	0.5	2.4	40
Transform	98	98	98	0.1	8.5	0.5	2.4	40
Steel/Bus	98	98	98	0.1	8.5	0.5	2.4	40
Yard Rock	98	98	98	0.1	8.5	0.5	2.4	40
Cleaning a	98	98	98	0.1	8.5	0.5	2.4	40
Remaining	98	98	98	0.1	8.5	0.5	2.4	40
Cleaning and Restoration 2								
Remaining Deliveries, Installations, Testing and Commissioning 2								

PhaseNam DemolitionDemolitionUnitAmount

PhaseNam	MaterialIm	MaterialEx	GradingSi	ImportExp	MeanVehi	AcresOfGr	MaterialMc	MaterialMc	MaterialSiltContent
Survey	0	0		0	7.1		7.9	12	6.9
Access Rc	0	0		0	7.1		7.9	12	6.9
Site Prepa	0	0		0	7.1	3.04	7.9	12	6.9
Fence and	0	0		0	7.1		7.9	12	6.9

PhaseNam	Architectu	Architectu	EF_Reside	ConstArea	EF_Reside	ConstArea	EF_Nonre	ConstArea	EF_Nonre	ConstArea	EF_Parkin	ConstArea_Parking

ParkingLotAcreage

VehicleTri	VehicleTri	WD_TR	ST_TR	SU_TR	HW_TL	HS_TL	HO_TL	CC_TL	CW_TL	CNW_TL	PR_TP	DV_TP	PB_TP	HW_TTP	HS_TTP	HO_TTP	CC_TTP	CW_TTP
General Li	1000sqft	0	0	0	0	0	0	7.3	9.5	7.3	92	5	3	0	0	0	28	59

CNW_TTP
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Season	EmissionT	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLE	0	0	0	0	0.003951	0.002493	0.002452	0.022959	0.008621	0	0	0.026793	0
A	CH4_RUN	0.001115	0.00225	0.001902	0.002377	0.007029	0.006308	0.00095	0.005541	0.005582	3.537314	0.318968	0.004062	0.007627
A	CH4_STR	0.034185	0.047042	0.04874	0.058796	0.010218	0.005665	0.005358	0	0.022957	0.00787	0.25075	0.002096	0.020218
A	CO_IDLE)	0	0	0	0	0.16531	0.126754	0.371652	7.159657	0.557661	0	0	1.431583	0
A	CO_RUNE	0.418701	0.617867	0.562831	0.618519	0.685174	0.611184	0.160767	0.224357	0.607318	26.83861	19.2771	0.256639	0.618866
A	CO_STRE	1.814053	1.977715	2.367511	2.614992	0.844535	0.464348	0.587426	0.001615	2.598132	0.563655	9.091168	0.292733	1.729457
A	CO2_NBI(	0	0	0	0	8.974001	14.12017	76.63334	1081.533	73.49505	0	0	328.1865	0
A	CO2_NBI(	217.421	258.1934	267.5891	337.7884	719.6553	709.7751	1006.399	1209.927	1374.199	1638.848	212.0621	1056.022	1433.368
A	CO2_NBI(	45.24583	55.06708	57.52985	72.52717	9.328439	6.145683	5.414222	0.013171	19.65709	5.826933	60.63235	1.784206	16.15093
A	NOX_IDLE	0	0	0	0	0.074809	0.102438	0.407174	5.813879	0.290742	0	0	3.031208	0
A	NOX_RUN	0.021176	0.044669	0.038313	0.050072	0.862736	0.836547	1.605381	2.295284	1.1158	0.441033	1.156285	4.381932	1.537353
A	NOX_STR	0.138829	0.185523	0.195432	0.245091	0.237391	0.137553	1.884211	2.342217	0.763579	0.05902	0.268552	1.029864	0.237741
A	PM10_IDL	0	0	0	0	0.001051	0.001555	0.000204	0.002285	0.000098	0	0	0.002397	0
A	PM10_PM	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034	0.061209	0.13034	0.092205	0.01176	0.7448	0.13034
A	PM10_PM	0.008	0.008	0.008	0.008	0.010071	0.010927	0.012	0.035687	0.012	0.024183	0.004	0.011368	0.013258
A	PM10_RU	0.001031	0.001214	0.001098	0.001143	0.012787	0.017635	0.008089	0.025927	0.006718	0.003596	0.001991	0.029117	0.031166
A	PM10_STI	0.001472	0.001818	0.001533	0.00156	0.000199	0.000098	0.00007	0	0.000237	0.000068	0.002738	0.000024	0.00021
A	PM25_IDL	0	0	0	0	0.001006	0.001487	0.000196	0.002186	0.000094	0	0	0.002293	0
A	PM25_PM	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586	0.026233	0.05586	0.039516	0.00504	0.3192	0.05586
A	PM25_PM	0.002	0.002	0.002	0.002	0.002518	0.002732	0.003	0.008922	0.003	0.006046	0.001	0.002842	0.003315
A	PM25_RU	0.000949	0.001117	0.001011	0.001054	0.012192	0.016851	0.007735	0.024806	0.006402	0.003431	0.001859	0.02785	0.02978
A	PM25_STI	0.001354	0.001672	0.00141	0.001435	0.000183	0.00009	0.000065	0	0.000218	0.000063	0.002568	0.000022	0.000193
A	ROG_DIU	0.038506	0.091083	0.070651	0.097527	0.001968	0.000968	0.000268	0	0.002465	0.000331	1.287514	0.000298	0.663577
A	ROG_HTS	0.076579	0.145125	0.107534	0.145386	0.063795	0.03158	0.010338	0.000014	0.029598	0.003169	0.802283	0.001989	0.046893
A	ROG_IDLI	0	0	0	0	0.017585	0.013901	0.014301	0.485485	0.04985	0	0	0.133328	0
A	ROG_RES	0.030738	0.066716	0.059651	0.08555	0.000926	0.000478	0.00013	0	0.000883	0.000168	0.644107	0.000116	0.214727
A	ROG_RUN	0.003771	0.009135	0.007173	0.009498	0.09724	0.113512	0.012808	0.021929	0.031344	0.057159	2.143859	0.079989	0.0602
A	ROG_RUN	0.024305	0.071488	0.053235	0.071061	0.212018	0.08221	0.010208	0.000006	0.114355	0.000919	0.496712	0.00457	0.011498
A	ROG_STR	0.142903	0.221144	0.216887	0.281418	0.051629	0.027926	0.027175	0.000001	0.121461	0.032727	1.906007	0.01154	0.080561
A	SO2_IDLE	0	0	0	0	0.000087	0.000135	0.000726	0.010207	0.000701	0	0	0.003112	0
A	SO2_RUN	0.002151	0.002555	0.002647	0.003338	0.007002	0.006837	0.009559	0.011402	0.013358	0.004174	0.002099	0.010033	0.014048
A	SO2_STR	0.000448	0.000545	0.000569	0.000718	0.000092	0.000061	0.000054	0	0.000195	0.000058	0.0006	0.000018	0.00016
A	TOG_DIUI	0.038506	0.091083	0.070651	0.097527	0.001968	0.000968	0.000268	0	0.002465	0.000331	1.287514	0.000298	0.663577
A	TOG_HTS	0.076579	0.145125	0.107534	0.145386	0.063795	0.03158	0.010338	0.000014	0.029598	0.003169	0.802283	0.001989	0.046893
A	TOG_IDLE	0	0	0	0	0.024306	0.018329	0.018839	0.5531	0.066017	0	0	0.187125	0
A	TOG_RES	0.030738	0.066716	0.059651	0.08555	0.000926	0.000478	0.00013	0	0.000883	0.000168	0.644107	0.000116	0.214727
A	TOG_RUN	0.005483	0.013327	0.010438	0.013795	0.115442	0.13096	0.015227	0.029534	0.043653	3.617417	2.664622	0.091656	0.075844
A	TOG_RUN	0.024305	0.071488	0.053235	0.071061	0.212018	0.08221	0.010208	0.000006	0.114355	0.000919	0.496712	0.00457	0.011498
A	TOG_STR	0.156461	0.242125	0.237464	0.308117	0.056528	0.030575	0.029754	0.000001	0.132984	0.035832	2.074772	0.012634	0.088205
A	N2O_IDLE	0	0	0	0	0.000884	0.001857	0.011506	0.170053	0.009592	0	0	0.04871	0
A	N2O_RUN	0.003403	0.004504	0.004354	0.006233	0.046992	0.069141	0.141084	0.190296	0.094436	0.288174	0.06637	0.148396	0.06159
A	N2O_STR	0.020939	0.023617	0.024943	0.02724	0.018894	0.010921	0.004633	0	0.020275	0.005512	0.015166	0.002252	0.025892
S	CH4_IDLE	0	0	0	0	0.003963	0.0025	0.002328	0.024301	0.00871	0	0	0.026831	0
S	CH4_RUN	0.001288	0.002577	0.002187	0.002734	0.007128	0.006349	0.000966	0.005542	0.005759	3.537335	0.312813	0.004077	0.007807
S	CH4_STR	0.028774	0.039391	0.04094	0.049387	0.009657	0.005356	0.005068	0	0.021487	0.006977	0.212542	0.001725	0.0188
S	CO_IDLE)	0	0	0	0	0.16531	0.126754	0.330438	7.064876	0.553317	0	0	1.394653	0
S	CO_RUNE	0.512499	0.748683	0.684843	0.751196	0.694245	0.614391	0.162129	0.22453	0.624288	26.83964	19.08479	0.257675	0.635891
S	CO_STRE	1.4716	1.6013	1.911537	2.107148	0.783815	0.431258	0.541685	0.001489	2.350512	0.455877	7.966323	0.205503	1.56421
S	CO2_NBI(	0	0	0	0	8.974001	14.12017	76.04782	1067.822	72.69248	0	0	335.9864	0
S	CO2_NBI(	236.7495	277.9974	286.1633	357.144	719.6716	709.7809	1006.401	1209.927	1374.23	1638.85	211.5491	1056.024	1433.399
S	CO2_NBI(	44.62053	54.34012	56.68086	71.55817	9.222073	6.087768	5.336293	0.012972	19.23721	5.64319	57.83119	1.639033	15.87083
S	NOX_IDLE	0	0	0	0	0.074809	0.102438	0.392011	5.532581	0.276313	0	0	3.08306	0
S	NOX_RUN	0.019295	0.040397	0.034758	0.04545	0.819137	0.796538	1.526859	2.188788	1.047776	0.438116	1.001088	4.164607	1.448257
S	NOX_STR	0.126622	0.169171	0.178244	0.223516	0.222245	0.128778	1.88089	2.342217	0.746111	0.0551	0.247736	1.028098	0.22237
S	PM10_IDL	0	0	0	0	0.001051	0.001555	0.000176	0.00202	0.000087	0	0	0.002031	0
S	PM10_PM	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034	0.061209	0.13034	0.092205	0.01176	0.7448	0.13034
S	PM10_PM	0.008	0.008	0.008	0.008	0.010071	0.010927	0.012	0.035687	0.012	0.024183	0.004	0.011368	0.013258
S	PM10_RU	0.001031	0.001214	0.001098	0.001143	0.012787	0.017635	0.008089	0.025927	0.006718	0.003596	0.001991	0.029117	0.031166
S	PM10_STI	0.001472	0.001818	0.001533	0.00156	0.000199	0.000098	0.00007	0	0.000237	0.000068	0.002738	0.000024	0.00021
S	PM25_IDL	0	0	0	0	0.001006	0.001487	0.000169	0.001933	0.000084	0	0	0.001943	0
S	PM25_PM	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586	0.026233	0.05586	0.039516	0.00504	0.3192	0.05586
S	PM25_PM	0.002	0.002	0.002	0.002	0.002518	0.002732	0.003	0.008922	0.003	0.006046	0.001	0.002842	0.003315
S	PM25_RU	0.000949	0.001117	0.001011	0.001054	0.012192	0.016851	0.007735	0.024806	0.006402	0.003431	0.001859	0.02785	0.02978
S	PM25_STI	0.001354	0.001672	0.00141	0.001435	0.000183	0.00009	0.000065	0	0.000218	0.000063	0.002568	0.000022	0.000193
S	ROG_DIU	0.092728	0.221282	0.168215	0.230413	0.004729	0.002317	0.000653	0.000001	0.006014	0.000826	3.375098	0.000716	1.62486
S	ROG_HTS	0.086399	0.171273	0.122743	0.163628	0.073054	0.036246	0.012043	0.000016	0.032811	0.003854	1.219824	0.002089	0.053417
S	ROG_IDLI	0	0	0	0	0.017585	0.013901	0.014085	0.514287	0.051107	0	0	0.133308	0
S	ROG_RES	0.063571	0.139127	0.121287	0.172331	0.001846	0.000948	0.000267	0	0.001666	0.000347	1.675015	0.000215	0.406285
S	ROG_RUN	0.004279	0.010319	0.008114	0.010735	0.097691	0.113677	0.012872	0.021931	0.032137	0.057219	2.086045	0.080051	0.061026
S	ROG_RUN	0.023271	0.068153	0.050751	0.067922	0.208303	0.080799	0.010046	0.000006	0.112779	0.000862	0.475823	0.003915	0.011321
S	ROG_STR	0.118329	0.182322	0.179279	0.232549	0.048614	0.026298	0.025559	0.000001	0.113304	0.028881	1.59978	0.009482	0.075148
S	SO2_IDLE	0	0	0	0	0.000087	0.000135	0.00072	0.010078	0.000693	0	0	0.003185	0
S	SO2_RUN	0.002342	0.002751	0.002831	0.00353	0.007003	0.006837	0.009559	0.011402	0.013358	0.004174	0.002093	0.010033	0.014049
S	SO2_STR	0.000442	0.000538	0.000561	0.000708	0.000091	0.00006	0.000053	0	0.00019	0.000056	0.000572	0.000016	0.000157
S	TOG_DIUI	0.092728	0.221282	0.168215	0.230413	0.004729	0.002317	0.000653	0.000001	0.006014	0.000826	3.375098	0.000716	1.62486
S	TOG_HTS	0.086399	0.171273	0.122743	0.163628	0.073054	0.036246	0.012043	0.000016	0.032811	0.003854	1.219824	0.002089	0.053417
S	TOG_IDLE	0	0	0	0	0.024306	0.018329	0.018412	0.585893	0.067448	0	0	0.187102	0
S	TOG_RES	0.063571	0.139127	0.121287	0.172331	0.001846	0.000948	0.000267	0	0.001666	0.000347	1.675015	0.000215	0.406285
S	TOG_RUN	0.006224	0.015054	0.01181	0.0156	0.1161	0.1312	0.01532	0.029537	0.04481	3.617505	2.594578	0.091747	0.07705
S	TOG_RUN	0.023271	0.068153	0.050751	0.067922	0.208303	0.080799	0.010046	0.000006	0.112779	0.000862	0.475823	0.003915	0.011321
S	TOG_STR	0.129555	0.19962	0.196288	0.254611	0.053227	0.028793	0.027984	0.000001	0.124054	0.031621	1.741508	0.010382	0.082278
S	N2O_IDLE	0	0	0	0	0.000886	0.001858	0.011389	0.167898	0.009472	0	0	0.049968	0
S	N2O_RUN	0.003208	0.004207	0.004091	0.005925	0.046619	0.068887	0.140994	0.190293	0.093489	0.28798	0.059951	0.1482	0.060392
S	N2O_STR	0.01964	0.022163	0.023406	0.025561	0.018103	0.010494	0.004468	0	0.019552	0.005341	0.014599	0.002146	0.025204
W	CH4_IDLE	0	0	0	0	0.003939	0.002486	0.002569	0.021105	0.008514	0	0	0.026756	0
W	CH4_RUN	0.001044	0.002115	0.001784	0.002229	0.006934	0.006269	0.000934	0.005541	0.005411	3.537295	0.32923	0.004048	0.007454
W	CH4_STR	0.038936	0.053788	0.055604	0.067084	0.010776	0.005973	0.00565	0	0.024327	0.008731	0.29347	0.00245	0.021559
W	CO_IDLE)	0	0	0	0	0.16531	0.126754	0.414509	7.290544	0.563661	0	0	1.482581	0
W	CO_RUNE	0.394971	0.585198	0.532148	0.585282	0.676848	0.608242	0.15948	0.224194	0.591272	26.8377	20.75736	0.255704	0.60293
W	CO_STRE	2.18282	2.382286	2.855125	3.156808	0.910767	0.500484	0.636933	0.001751	2.846381	0.674891	10.58314	0.384401	1.895434
W	CO2_NBI(	0	0	0	0	8.974001	14.12017	77.51424	1100.467	74.60336	0	0	317.4152	0
W	CO2_NBI(	211.34	251.9668	261.7487	331.7031	719.6403	709.7697	1006.397	1209.926	1374.17	1638.846	214.7369	1056.02	1433.34
W	CO2_NBI(	45.90542	55.8277	58.41791	73.53574	9.443567	6.208436	5.498194	0.013387	20.07622	6.015827	64.16452	1.936108	16.43104
W	NOX_IDLE	0	0	0	0	0.074809	0.102438	0.428124	6.202338	0.310667	0	0	2.959603	0
W	NOX_RUN	0.023201	0.049089	0.042049	0.05492	0.881064	0.852513	1.634108	2.336316	1.147021	0.442764	1.253471	4.464369	1.575634
W	NOX_STR	0.15293	0.204327	0.215259	0.269962	0.253421	0.146844	1.88771	2.342217	0.78199	0.062854	0.289017	1.031544	0.253943
W	PM10_IDL	0	0	0	0	0.001051	0.001555	0.000243	0.002651	0.000113	0	0	0.002902	0

Season	EmissionT	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
W	PM10_PM	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034	0.061209	0.13034	0.092205	0.01176	0.7448	0.13034
W	PM10_PM	0.008	0.008	0.008	0.008	0.010071	0.010927	0.012	0.035687	0.012	0.024183	0.004	0.011368	0.013258
W	PM10_RU	0.001031	0.001214	0.001098	0.001143	0.012787	0.017635	0.008089	0.025927	0.006718	0.003596	0.001991	0.029117	0.031166
W	PM10_STI	0.001472	0.001818	0.001533	0.00156	0.000199	0.000098	0.00007	0	0.000237	0.000068	0.002738	0.000024	0.00021
W	PM25_IDL	0	0	0	0	0.001006	0.001487	0.000233	0.002536	0.000108	0	0	0.002777	0
W	PM25_PM	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586	0.026233	0.05586	0.039516	0.00504	0.3192	0.05586
W	PM25_PM	0.002	0.002	0.002	0.002	0.002518	0.002732	0.003	0.008922	0.003	0.006046	0.001	0.002842	0.003315
W	PM25_RU	0.000949	0.001117	0.001011	0.001054	0.012192	0.016851	0.007735	0.024806	0.006402	0.003431	0.001859	0.02785	0.02978
W	PM25_STI	0.001354	0.001672	0.00141	0.001435	0.000183	0.00009	0.000065	0	0.000218	0.000063	0.002568	0.000022	0.000193
W	ROG_DIU	0.013337	0.030918	0.025151	0.035376	0.000706	0.000358	0.000095	0	0.000929	0.000122	0.346822	0.000117	0.240354
W	ROG_HTS	0.077435	0.148356	0.108919	0.146844	0.068502	0.032731	0.010482	0.000014	0.029966	0.003203	0.850081	0.001995	0.05036
W	ROG_IDLI	0	0	0	0	0.017585	0.013901	0.014382	0.44571	0.048114	0	0	0.133355	0
W	ROG_RES	0.013153	0.028491	0.025897	0.03742	0.000441	0.00023	0.00006	0	0.000476	0.000082	0.205715	0.000064	0.116136
W	ROG_RUI	0.003584	0.008702	0.006827	0.009048	0.096811	0.113355	0.012745	0.021927	0.030574	0.057105	2.234529	0.079932	0.059413
W	ROG_RUI	0.028632	0.086738	0.064115	0.084975	0.233421	0.09115	0.011477	0.000007	0.124229	0.001125	0.592793	0.005869	0.012355
W	ROG_STF	0.165268	0.256702	0.251196	0.326032	0.054652	0.029557	0.028814	0.000001	0.1291	0.036474	2.257118	0.013507	0.085634
W	SO2_IDLE	0	0	0	0	0.000087	0.000135	0.000734	0.010386	0.000711	0	0	0.00301	0
W	SO2_RUN	0.002091	0.002493	0.002589	0.003278	0.007002	0.006837	0.009559	0.011402	0.013357	0.004174	0.002125	0.010033	0.014048
W	SO2_STR	0.000454	0.000552	0.000578	0.000728	0.000094	0.000061	0.000054	0	0.000199	0.00006	0.000635	0.000019	0.000163
W	TOG_DIUI	0.013337	0.030918	0.025151	0.035376	0.000706	0.000358	0.000095	0	0.000929	0.000122	0.346822	0.000117	0.240354
W	TOG_HTS	0.077435	0.148356	0.108919	0.146844	0.068502	0.032731	0.010482	0.000014	0.029966	0.003203	0.850081	0.001995	0.05036
W	TOG_IDLE	0	0	0	0	0.024306	0.018329	0.019114	0.507814	0.064041	0	0	0.187156	0
W	TOG_RES	0.013153	0.028491	0.025897	0.03742	0.000441	0.00023	0.00006	0	0.000476	0.000082	0.205715	0.000064	0.116136
W	TOG_RUN	0.00521	0.012695	0.009932	0.013138	0.114816	0.130731	0.015136	0.029532	0.042529	3.617338	2.775131	0.091573	0.074696
W	TOG_RUN	0.028632	0.086738	0.064115	0.084975	0.233421	0.09115	0.011477	0.000007	0.124229	0.001125	0.592793	0.005869	0.012355
W	TOG_STR	0.180948	0.281056	0.275028	0.356964	0.059837	0.032361	0.031548	0.000001	0.141349	0.039934	2.456853	0.014788	0.093759
W	N2O_IDLE	0	0	0	0	0.000882	0.001856	0.01167	0.173028	0.009761	0	0	0.046997	0
W	N2O_RUN	0.003607	0.004804	0.004622	0.006547	0.047207	0.069277	0.141136	0.190297	0.09498	0.288283	0.070221	0.148511	0.06231
W	N2O_STR	0.022417	0.02528	0.026699	0.029158	0.019781	0.011425	0.004841	0	0.021199	0.005747	0.015922	0.002368	0.027035

RoadPercı	RoadSiltLc	MaterialSil	MaterialMc	MobileAve	MeanVehi	CARB_PM_VMT
100	0.1	4.3	0.5	2.4	40	0

Woodstov	NumberCc	NumberCa	NumberNc	NumberPe	Woodstov	WoodstoveWoodMass

Fireplaces	NumberWı	NumberGa	NumberPn	NumberNc	FireplaceH	FireplaceD	FireplaceWoodMass

ROG_EF	ROG_EF_	ROG_EF_PesticidesFertilizers
2.14E-05	3.54E-07	5.15E-08

Area_EF_I	Area_Resi	Area_EF_I	Area_Resi	Area_EF_I	Area_Nonı	Area_EF_I	Area_Nonı	Reapplicat	Area_EF_I	Area_Parking
150	0	150	0	150	198960	150	66320	0	150	0

NumberSn	NumberSummerDays
0	180

EnergyUse	T24E	NT24E	LightingEl	T24NG	NT24NG
General Li	1.48	4.2	2.6	18.39	0.06

WaterLanc	WaterLanc	IndoorWat	OutdoorW	ElectricityI	ElectricityI	ElectricityI	ElectricityI	SepticTanl	AerobicPe	Anaerobic	AnaDigest	AnaDigestCogenCombDigestGasPercent
General Li	1000sqft	0	0	2117	111	1272	1911	10.33	87.46	2.21	100	0

SolidWasti	SolidWasti	SolidWasti	LandfillNo	LandfillCa	LandfillCaptureGasEnergyRecovery
General Li	1000sqft	0	6	94	0

Vegetation	Vegetation	AcresBegi	AcresEnd	CO2peracre

BroadSpec	NumberOf	CO2perTree

ConstMitig	FuelType	Tier	NumberOf	TotalNumt	DPF	OxidationCatalyst
Aerial Lifts	Diesel	No Change	0	2	No Change	0
Bore/Drill F	Diesel	No Change	0	2	No Change	0
Cranes	Diesel	No Change	0	3	No Change	0
Generator	Diesel	No Change	0	1	No Change	0
Graders	Diesel	No Change	0	2	No Change	0
Off-Highwa	Diesel	No Change	0	38	No Change	0
Rollers	Diesel	No Change	0	2	No Change	0
Rough Ter	Diesel	No Change	0	2	No Change	0
Rubber Tir	Diesel	No Change	0	2	No Change	0
Rubber Tir	Diesel	No Change	0	4	No Change	0
Scrapers	Diesel	No Change	0	1	No Change	0
Trenchers	Diesel	No Change	0	2	No Change	0

SoilStabiliz	SoilStabiliz	SoilStabiliz	ReplaceGr	ReplaceGr	ReplaceGr	WaterExpo	WaterExpo	WaterExpo	WaterExpo	WaterUnpa	WaterUnpa	WaterUnpa	WaterUnpa	CleanPavedRoadPercentReduction
0	0	0	0	0	0	1	2	55	55	0	0	0.5	40	0

ProjectSet	IncreaseD	IncreaseD	IncreaseD	IncreaseD	ImproveW	ImproveW	ImproveDe	ImproveDe	IncreaseTr	IncreaseTr	IntegrateB	IntegrateB	ImprovePe	ImprovePe	ProvideTra	ProvideTra	ProvideTra	Implement

LimitParkir	LimitParkir	UnbundleF	UnbundleF	OnStreetM	OnStreetM	ProvideBR	ProvideBR	ExpandTra	ExpandTra	IncreaseTr	IncreaseTr	IncreaseTransitFrequencyHeadwaysPercentReduction

Implement	Implement	Implement	TransitSut	TransitSut	TransitSut	Implement	Implement	Workplace	Workplace	Workplace	Encourage	Encourage	Encourage	Encourage	MarketCor	MarketCor	Employee\	Employee\
0			0			0		0			0				0		0	

EmployeeS	ProvideRic	ProvideRic	Implement	ImplementSchoolBusProgramPercentFamilyUsing
2	0		0	

Landscape	Landscape	Landscape	Landscape	Landscape	Landscape	UseLowVC	UseLowVC	UseLowVC	UseLowVC
0		0		0		0	150	0	150

UseLowVC	UseLowVC	UseLowVC	UseLowVC	HearthOnl	NoHearthC	UseLowVC	UseLowVC	UseLowVOCPaintParkingValue
0	150	0	150	0	0	0	0	150

ExceedTitl ExceedTitl InstallHigh InstallHigh OnSiteRer KwhGener KwhGener PercentOfl PercentOfElectricityUseGenerated

Appliance	Appliancel Percent	Improvement
ClothWasher	30	
DishWasher	15	
Fan	50	
Refrigerator	15	

ApplyWate	ApplyWate	ApplyWate	UseReclai	PercentOu	PercentInc	UseGreyW	PercentOu	PercentInc	InstallLowI	PercentRe	InstallLowI	PercentRe	InstallLowI	PercentRe	InstallLowI	PercentRe	TurfReduc	TurfReduc
0			0			0			0	32	0	18	0	20	0	20	0	

TurfReduc	UseWaterI	UseWaterI	WaterEffic	MAWA	ETWU
	0	6.1	0		

InstituteRe	InstituteRecyclingAndCompostingServicesWastePercentReduction

OperOffRc	OperOffRc	OperHours	OperDays	OperHorse	OperLoadF	OperFuelType
Off-Highwa	1	4	12	402	0.38	Diesel

FleetMixLa	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Li	0.554122	0.053376	0.171995	0.136171	0.022603	0.00571	0.012724	0.016721	0.000451	0.000316	0.021848	0.00105	0.002914

GeneratorsNumberOf	GeneratorsHorsePow	Load_Fact	HoursPerDay	HoursPerYear	GeneratorsPumpsEquipmentDescription

BoilerEqui	NumberOf	BoilerFuel	BoilerRatir	DailyHeatI	AnnualHe	BoilerEquipmentDescription

UserDefin	UserDefin	TOG_lb_d	TOG_tpy	ROG_lb_d	ROG_tpy	CO_lb_da	CO_tpy	NOX_lb_d	NOX_tpy	SO2_lb_d	SO2_tpy	PM10_lb_	PM10_tpy	PM2_5_lb	PM2_5_tp	CO2_lb_d	CO2_tpy	CH4_lb_d

CH4_tpy

Generator	TOG_EF	TOG_EF_	ROG_EF	ROG_EF_	CO_EF	CO_EF_U	NOX_EF	NOX_EF_	SO2_EF	SO2_EF_I	PM10_EF	PM10_EF_	PM2_5_EF	PM2_5_EF	CO2_EF	CO2_EF_I	CH4_EF	CH4_EF_U

JOM

BoilerEqui	TOG_EF	TOG_EF_	ROG_EF	ROG_EF_	CO_EF	CO_EF_U	NOX_EF	NOX_EF_	SO2_EF	SO2_EF_I	PM10_EF	PM10_EF_	PM2_5_EF	PM2_5_EF	CO2_EF	CO2_EF_I	CH4_EF	CH4_EF_U

JOM

SubModuli	PhaseNam	Season	Remarks
1			Project specific info
3			4.6 acres of disturbed area per grading plan
4			Project-specific timeline.
5	Access Roads		Project-specific Information.
5	Architectural Coating		
5	Building Construction		Project-specific information used in lieu of CalEEMod defaults.
5	Cleaning and Restora		Project-specific information
5	Cleaning and Restora		Project specific information
5	Cleaning and Restora		Project specific equipment
5	Demolition		
5	Fence and Gate Insta		Project-specific info
5	Foundation		Project-specific
5	Grading		
5	Ground/Grid Circuit In		Project-specific information
5	Paving		Project-specific information used in lieu of CalEEMod defaults.
5	Remaining Deliveries		Project-specific information
5	Remaining Deliveries		Project specific equipment
5	Remaining Deliveries		Project specific equipment
5	Site Preparation		Project-specific equipment list used in lieu of CalEEMod defaults.
5	Steel/Bus Erection		project-specific information
5	Survey		Site-specific value
5	Transformer Installatic		project-specific information
5	Underground 12 kV Li		Site-specific info
5	Yard Rock Installation		Project-specific information
6			Project-specific worker trips
7			Only a small portion of the construction access road surfaces surrounding the project will be unpaved, therefore 98% pavement is assumed.
9			Site-specific area.
12			Unmanned operation and no daily worker trips will occur
13		A	
13		S	
13		W	
17			No consumer product utilization was assumed for the project
18			No architectural coating is assumed for the project.
19			
20			
21			Unmanned facility - no water use is expected
22			Unmanned facility - no solid waste generation is expected
			Tier 3 compliant engines are assumed for the project
25			Watering of exposed areas is assumed
34			Assumes monthly inspection utilizing one off-highway truck 4 hours per day.
35			

3. Screening HRA Methodology

Air dispersion of the DPM was modeled using the American Meteorological Society/U.S. Environmental Protection Agency (EPA) Regulatory Model (AERMOD). The modeled output (maximum ground-level concentrations), along with equations from the *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015), were used to estimate the health risks for cancer and chronic (non-cancer) disease for residential and worker exposure to DPM emissions. DPM does not have OEHHA approved risk values from acute (non-cancer) exposure. Details regarding model selection, inputs, and calculation methodology are presented in the following sections.

3.1 Model Selection

The air dispersion modeling was conducted based on guidance presented in the *Guideline on Air Quality Models* (EPA 2017) and the EPA-approved dispersion model, AERMOD (Version 22112). The AERMOD model is a steady-state, multiple-source dispersion model that incorporates hourly meteorological data inputs and local surface characteristics. The AERMOD model is well suited for this assessment based on its ability to handle the various physical characteristics of project emission sources, including point, area, and volume source types. The required emission source data inputs to AERMOD include source locations, source elevations, stack heights, stack diameters, stack exit temperatures, stack exit velocities, and pollutant emission rates. The source locations are specified for a Cartesian coordinate system (x, y) where x and y are distances east and north in meters, respectively. The Cartesian coordinate system used for this analysis is the Universal Transverse Mercator Projection (UTM), 1983 North American Datum (NAD 83) Zone 10.

3.2 Model Options

The technical options selected for the AERMOD model include the following:

- Regulatory default control options
- Rural dispersion mode
- Receptor elevations and controlling hill heights obtained from AERMAP (Version 18081) output

No buildings were included in the air dispersion model, therefore building downwash was not included.

3.3 Meteorological Data

In the absence of site-specific meteorological data, the EPA requires the use of 5 years of representative National Weather Service (NWS) meteorological data. According to EPA's *Guideline on Air Quality Models* (EPA 2017), representativeness of meteorological data used in dispersion modeling depends on (1) the proximity of the meteorological monitoring site to the area under consideration, (2) the complexity of the terrain, (3) the exposure of the meteorological monitoring site, and (4) the period of time during which data are collected.

AERMOD-ready NWS meteorological data were acquired from the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the Stockton Station for years 2013 through 2017. The Stockton Station data were considered representative of the project area and accordingly selected for use based on the following reasons:

- The SJVAPCD Stockton Station meteorological site is located approximately 16.5 miles from the Thurman/Guild location and 16.1 miles from the Lockeford location.
- There are no complex terrain features between the meteorological site and either project construction site.

Appendix B2
HRA Technical Memorandum

Health Risk Assessment for PG&E's Northern San Joaquin 230 kV Transmission Project

Date:	July 21, 2023
Project name:	Northern San Joaquin 230 kV Transmission Project
Attention:	Erin Rice
Client:	Pacific Gas and Electric Company
Prepared by:	Michelle Neumann
Reviewed by:	Jerry Salamy
Copies to:	Colleen Taylor

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1. Background

Pacific Gas and Electric Company (PG&E) has conducted a screening Health Risk Assessment (HRA) to evaluate the potential health risks from construction of the PG&E Northern San Joaquin 230 kilovolt (kV) Transmission Project (project). This HRA will support the findings in Section 5.3, Air Quality, in the project's Proponent's Environmental Assessment (PEA). The City of Lodi's Lodi Electric Utility (LEU) is a participating utility in the project and LEU's portion of the project is included in this assessment. This technical memorandum presents a list of the air toxics expected to be emitted during project construction, the methodology for conducting the screening HRA, and the results.

Work within the City of Lodi includes (1) construction of the new PG&E Thurman Switching Station, the new LEU Guild Substation, and approximately 0.3 mile of the new PG&E 230 kV line; and (2) modification to the existing LEU Industrial Substation, existing LEU 12 kV lines, existing PG&E 12 kV line, and existing PG&E 60 kV lines along East Lodi Avenue and East Sargent Road.

PG&E Thurman Switching Station and LEU Guild Substation will be constructed on the property at East Thurman Road and South Guild Avenue, adjacent to the existing LEU Industrial Substation. Consistent with guidance from the Office of Environmental Health Hazard Assessment (OEHHA), the screening HRA was performed only for construction activities lasting longer than 2 months in duration (OEHHA 2015). Two locations total – one at PG&E Lockeford Substation and one at the property at East Thurman Road and South Guild Avenue in Lodi – were selected where sensitive receptors are near construction and construction activities are expected to last more than 2 months. Based on the OEHHA guidance, construction activities occurring at PG&E Lockeford Substation and PG&E Thurman Switching Station, were included in the HRA. PG&E Thurman Switching Station construction activities include construction activities at the adjacent LEU Guild and LEU Industrial substations and LEU 12 kV line modification, and the construction of a PG&E microwave tower. If a specific facility is not being discussed, the two locations where sensitive receptors are nearby are referred to as "Thurman/Guild" and "Lockeford," respectively.

Construction activities associated with the new PG&E 230 kV transmission lines, PG&E 12 kV service line extension, PG&E remote-end substations (PG&E Brighton, PG&E Rio Oso, PG&E Bellota substations, and PG&E Clayton Hill Repeater Station), and PG&E 60 kV power line reconfigurations are expected to last less than 2 months at a given location and were not included.

2. Emissions of Air Toxics

Diesel particulate matter (DPM) is used a surrogate of the toxic air contaminant (TAC) expected to be emitted during construction. DPM emissions result from exhaust of diesel-fueled construction equipment and vehicles operated within the project area.

DPM emissions for PG&E Lockeford Substation, PG&E Thurman Switching Station, and LEU construction activities were derived from PEA construction emission estimates (Section 5.3.4.4), as follows:

- DPM was assumed to be best represented by particulate matter with aerodynamic diameter less than 10 microns (PM_{10}) emitted as a result of diesel fuel combustion. Therefore, fugitive dust emissions were excluded, as they are not expected to include DPM.
- PM_{10} emissions resulting from diesel-fueled construction equipment and vehicles exhaust were estimated using California Emission Estimator Model (CalEEMod) and were used as DPM emissions in the HRA.
- Offsite contributions resulting from material haul truck trips, worker commute trips, short-haul dump truck trips, long-haul dump truck trips, inspector vehicle trips, and mechanics truck trips were excluded, as they are not expected to significantly contribute to localized impacts of DPM from the construction site.

For the air dispersion modeling of the HRA, DPM emissions during the project construction duration were annualized over the construction period and spatially distributed within the construction area. Specifically, emissions were spatially distributed in (1) the area associated with construction of PG&E Lockeford Substation, averaged over 3 years, and (2) the area associated with construction of PG&E Thurman Switching Station and LEU Guild Substation, averaged one year. The emissions from PG&E Thurman Switching Station, the PG&E Microwave Tower within Thurman Switching Station, the PG&E 12 kV Extension, and LEU portion of the project substations were assumed to occur concurrently. These emission rates are presented in Table 1.

Table 1. DPM Emission Rates Modeled for Project Construction

Construction Sites	DPM Exhaust Emissions				
	Construction Year	Duration (months)	Total (lb/ construction year)[c]	Annualized (lb/year)	Modeled Rate (g/s)
PG&E Lockeford Substation Site [a]	2026	6	68.78	67.73	0.00097
	2027	9	49.14		
	2028	12	64.11		
	2029	4	21.16		
PG&E Thurman Switching Station Site (includes Thurman Switching Station, Microwave Tower, and the 12 KV Line Extension)[b]	2026	2	22.15	118.45	0.00170
	2027	9	96.30		
LEU Portion of the Project at Guild Substation Site [b]	2027	11	104.44	113.28	0.00163
	2028	1	8.84		

[a]Annualized emissions are based on the total construction emissions per year divided by the number of months per year of construction, allocating 0 emissions to months without construction, averaged over 36 months, then multiplied by 12 months.

[b] Annualized emissions are based on the total construction emissions per year divided by the number of months per year of construction, allocating 0 emissions to months without construction, averaged over 12 months, then multiplied by 12 months.

e.g., calculation: 67.7 = (61.99+41.39+78.56+21.16) / 36 * 12

Notes:

g/s = gram(s) per second

lb/construction year = pound(s) per construction year

lb/year = pound(s) per year

3. Screening HRA Methodology

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3.2 Model Options

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In the absence of site-specific meteorological data, the EPA requires the use of 5 years of representative National Weather Service (NWS) meteorological data. According to EPA's *Guideline on Air Quality Models* (EPA 2017), representativeness of meteorological data used in dispersion modeling depends on (1) the proximity of the meteorological monitoring site to the area under consideration, (2) the complexity of the terrain, (3) the exposure of the meteorological monitoring site, and (4) the period of time during which data are collected.

AERMOD-ready NWS meteorological data were acquired from the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the Stockton Station for years 2013 through 2017. The Stockton Station data were considered representative of the project area and accordingly selected for use based on the following reasons:

- The SJVAPCD Stockton Station meteorological site is located approximately 16.5 miles from the Thurman/Guild location and 16.1 miles from the Lockeford location.
- There are no complex terrain features between the meteorological site and either project construction site.

- The land uses surrounding the meteorological site and the project construction sites are similar.

3.4 Receptor Grid Spacing

The receptor grid for the AERMOD modeling consists of receptors that are placed at the ambient air boundary (the project's property boundary) and Cartesian-grid receptors that are placed beyond the project's property boundary at spacing that increases with distance from the origin, as presented in Appendix A, Figure 1. Property boundary receptors were placed at 25-meter intervals. Beyond the project's property boundary, receptor spacing was as follows:

- 25-meter spacing from property boundary to 100 meters from the origin
- 50-meter spacing from beyond 100 meters to 250 meters from the origin
- 100-meter spacing from beyond 250 meters to 500 meters from the origin
- 250-meter spacing from beyond 500 meters to 1,000 meters from the origin
- 500-meter spacing from beyond 1,000 meters to 2,000 meters from the origin

All receptors and source locations were expressed in a UTM NAD 83, Zone 10 coordinate system. AERMAP was used to calculate the receptor elevations and the controlling hill heights. Terrain in the vicinity of the project was accounted for by assigning base elevations to each receptor. National Elevation Dataset files from the United States Geological Survey were obtained in one third arc-second resolution for the 2kilometer grid. The AERMAP domain was large enough to encompass the 10% slope factor required for calculating the controlling hill height.

3.5 Source Parameters

For each of the locations, the construction exhaust emissions were modeled as a set of point sources spaced approximately 25 meters apart over the construction areas with a horizontal stack release. The horizontal release type is an AERMOD option, which negates mechanical plume rise. This conservative approach was used because it is unknown whether the construction equipment will have vertically oriented exhaust stacks. Stack release parameters consisted of a stack release temperature of 533 degrees Kelvin (ºK; 500 degrees Fahrenheit [°F]), an exit velocity of 18 meters per section (59.1 feet per second), a stack diameter of 0.127 meters (5 inches), and a release height of 4.6 meters (15 feet) based on data for typical construction equipment. The Modeled Rate in Table 1 was equally divided and allocated to each of the sources per station. A detailed summary of the AERMOD modeling inputs is presented in Appendix A, Table 1 and Table 2.

3.6 Health Risk Estimates

Because the Lockeford and Thurman/Guild locations are several miles apart and have different construction schedules, the screening HRA for Lockeford estimated the 3-year rolling cancer risks during a 30-year exposure duration (starting with exposure during the third trimester) for residential exposure and a 25-year exposure duration (from age 16 to 40) for worker exposure, aligned with the expected construction duration, Maximally Exposed Individual Resident (MEIR), Maximally Exposed Individual Worker (MEIW), and maximum exposed sensitive receptor (preschool, K-12 school, or medical facility). If a maximum exposed sensitive receptor was not within the receptor grid used in the modeling, the lowest concentration receptor was evaluated. The screening HRA for Thurman/Guild estimated a 1-year exposure duration. The excess cancer risks were estimated using the following:

- Equations 5.4.1.1 and 8.2.4A from the *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA, 2015) for residential exposure

- Equations 5.4.1.2A, 5.4.1.2B, and 8.2.4B from the *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015) for worker exposure
- The maximum annual ground-level concentrations used to estimate risk were determined through dispersion modeling with AERMOD
- The construction emission estimates modeled are presented in Table 1

Chronic risks also were estimated for the MEIR, MEIW, and maximum exposed sensitive receptor, based on the same emission rates and ground-level concentrations previously described. To calculate chronic risk, as characterized by the chronic hazard index, the maximum annual ground-level concentration was divided by the DPM reference exposure level of 5 micrograms per cubic meter ($\mu g/m^3$) (OEHHA and CARB 2020). Details on how cancer and chronic risks were calculated are included in Appendix B.

4. Results

The results of the screening HRA for construction activities associated with the project are shown in Table 2. The HRA results are compared to the SJVAPCD CEQA project analysis level recommended thresholds of significant impact. The excess cancer risks are less than the significance threshold of 20 in 1 million. The chronic hazard indices are less than the significance threshold of 1.0. Therefore, predicted impacts associated with the finite construction activities are less than significant. The model input and output files are provided digitally and identified as Appendix C.

Table 2. HRA Results

Construction Location	Risk	MEIR	MEIW	Maximum Exposed Sensitive Receptor
PG&E Portion of the Project at Thurman Switching Station Site	Cancer Risk (in a million) *Significance Threshold = 20 in 1 million*	1.23	0.18	0.40
	Chronic Hazard Index *Significance Threshold = 1.0*	0.0018	0.0144	0.0006
LEU Portion of the Project at Guild Substation Site	Cancer Risk (in a million) *Significance Threshold = 20 in 1 million*	1.23	0.13	0.37
	Chronic Hazard Index *Significance Threshold = 1.0*	0.0018	0.0102	0.0005
PG&E & LEU Combined at Thurman/Guild Sites	Cancer Risk (in a million) *Significance Threshold = 20 in 1 million*	2.46	0.28	0.77
	Chronic Hazard Index *Significance Threshold = 1.0*	0.035	0.0227	0.0011
PG&E Lockeford Substation Site	Cancer Risk (in a million) *Significance Threshold = 20 in 1 million*	7.43	0.19	0.07
	Chronic Hazard Index *Significance Threshold = 1.0*	0.0047	0.0053	0.00005

MEIR = Maximally Exposed Individual Resident

MEIW = Maximally Exposed Individual Worker

5. References

Office of Environmental Health Hazard Assessment (OEHHA). 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments.* February.

Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB). 2020. *Consolidated Table of OEHHA/CARB Approved Risk Assessment Health Values.* October.

U.S. Environmental Protection Agency (EPA). 2017. *Guideline on Air Quality Models*, 40 CFR 51, Appendix W. November.

Appendix A
AERMOD



Appendix A. Figure 1
Screening Health Risk Assessment Receptor Grid
PG&E NSJ Project
Lodi, CA

APPENDIX A, TABLE 1

AERMOD Source Inputs – PG&E Thurman Switching Station/LEU Portion of the Project ("Guild")

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
G001	HORIZONTAL	Guild	653311.6	4221577	17.91	4.6	533	18	0.127	5.25603E-05
G002	HORIZONTAL	Guild	653336.6	4221577	17.96	4.6	533	18	0.127	5.25603E-05
G003	HORIZONTAL	Guild	653361.6	4221577	18.11	4.6	533	18	0.127	5.25603E-05
G004	HORIZONTAL	Guild	653311.6	4221602	18.04	4.6	533	18	0.127	5.25603E-05
G005	HORIZONTAL	Guild	653336.6	4221602	18.05	4.6	533	18	0.127	5.25603E-05
G006	HORIZONTAL	Guild	653361.6	4221602	18.13	4.6	533	18	0.127	5.25603E-05
G007	HORIZONTAL	Guild	653286.6	4221627	18.15	4.6	533	18	0.127	5.25603E-05
G008	HORIZONTAL	Guild	653311.6	4221627	18.15	4.6	533	18	0.127	5.25603E-05
G009	HORIZONTAL	Guild	653336.6	4221627	18.13	4.6	533	18	0.127	5.25603E-05
G010	HORIZONTAL	Guild	653361.6	4221627	18.15	4.6	533	18	0.127	5.25603E-05
G011	HORIZONTAL	Guild	653286.6	4221652	18.16	4.6	533	18	0.127	5.25603E-05
G012	HORIZONTAL	Guild	653311.6	4221652	18.18	4.6	533	18	0.127	5.25603E-05
G013	HORIZONTAL	Guild	653336.6	4221652	18.15	4.6	533	18	0.127	5.25603E-05
G014	HORIZONTAL	Guild	653361.6	4221652	18.18	4.6	533	18	0.127	5.25603E-05
G015	HORIZONTAL	Guild	653311.6	4221677	18.15	4.6	533	18	0.127	5.25603E-05
G016	HORIZONTAL	Guild	653336.6	4221677	18.15	4.6	533	18	0.127	5.25603E-05
G017	HORIZONTAL	Guild	653361.6	4221677	18.21	4.6	533	18	0.127	5.25603E-05
G018	HORIZONTAL	Guild	653311.6	4221702	18.15	4.6	533	18	0.127	5.25603E-05

APPENDIX A, TABLE 1

AERMOD Source Inputs – PG&E Thurman Switching Station/LEU Portion of the Project ("Guild")

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
G019	HORIZONTAL	Guild	653336.6	4221702	18.17	4.6	533	18	0.127	5.25603E-05
G020	HORIZONTAL	Guild	653361.6	4221702	18.22	4.6	533	18	0.127	5.25603E-05
G021	HORIZONTAL	Guild	653386.6	4221702	18.28	4.6	533	18	0.127	5.25603E-05
G022	HORIZONTAL	Guild	653411.6	4221702	18.27	4.6	533	18	0.127	5.25603E-05
G023	HORIZONTAL	Guild	653436.6	4221702	18.34	4.6	533	18	0.127	5.25603E-05
G024	HORIZONTAL	Guild	653461.6	4221702	18.42	4.6	533	18	0.127	5.25603E-05
G025	HORIZONTAL	Guild	653486.6	4221702	18.44	4.6	533	18	0.127	5.25603E-05
G026	HORIZONTAL	Guild	653511.6	4221702	18.43	4.6	533	18	0.127	5.25603E-05
G027	HORIZONTAL	Guild	653536.6	4221702	18.54	4.6	533	18	0.127	5.25603E-05
G028	HORIZONTAL	Guild	653311.6	4221727	18.11	4.6	533	18	0.127	5.25603E-05
G029	HORIZONTAL	Guild	653336.6	4221727	18.07	4.6	533	18	0.127	5.25603E-05
G030	HORIZONTAL	Guild	653361.6	4221727	18.13	4.6	533	18	0.127	5.25603E-05
G031	HORIZONTAL	Guild	653386.6	4221727	18.13	4.6	533	18	0.127	5.25603E-05
T001	HORIZONTAL	Thurman	653236.6	4221552	17.71	4.6	533	18	0.127	3.78524E-05
T002	HORIZONTAL	Thurman	653261.6	4221552	17.78	4.6	533	18	0.127	3.78524E-05
T003	HORIZONTAL	Thurman	653286.6	4221552	17.82	4.6	533	18	0.127	3.78524E-05
T004	HORIZONTAL	Thurman	653311.6	4221552	17.89	4.6	533	18	0.127	3.78524E-05
T005	HORIZONTAL	Thurman	653336.6	4221552	18.05	4.6	533	18	0.127	3.78524E-05

APPENDIX A, TABLE 1

AERMOD Source Inputs – PG&E Thurman Switching Station/LEU Portion of the Project ("Guild")

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
T006	HORIZONTAL	Thurman	653361.6	4221552	18.12	4.6	533	18	0.127	3.78524E-05
T007	HORIZONTAL	Thurman	653386.6	4221552	18.23	4.6	533	18	0.127	3.78524E-05
T008	HORIZONTAL	Thurman	653411.6	4221552	18.24	4.6	533	18	0.127	3.78524E-05
T009	HORIZONTAL	Thurman	653436.6	4221552	18.34	4.6	533	18	0.127	3.78524E-05
T010	HORIZONTAL	Thurman	653461.6	4221552	18.34	4.6	533	18	0.127	3.78524E-05
T011	HORIZONTAL	Thurman	653486.6	4221552	18.43	4.6	533	18	0.127	3.78524E-05
T012	HORIZONTAL	Thurman	653236.6	4221577	17.79	4.6	533	18	0.127	3.78524E-05
T013	HORIZONTAL	Thurman	653261.6	4221577	17.83	4.6	533	18	0.127	3.78524E-05
T014	HORIZONTAL	Thurman	653286.6	4221577	17.86	4.6	533	18	0.127	3.78524E-05
T015	HORIZONTAL	Thurman	653386.6	4221577	18.16	4.6	533	18	0.127	3.78524E-05
T016	HORIZONTAL	Thurman	653411.6	4221577	18.24	4.6	533	18	0.127	3.78524E-05
T017	HORIZONTAL	Thurman	653436.6	4221577	18.24	4.6	533	18	0.127	3.78524E-05
T018	HORIZONTAL	Thurman	653461.6	4221577	18.34	4.6	533	18	0.127	3.78524E-05
T019	HORIZONTAL	Thurman	653486.6	4221577	18.37	4.6	533	18	0.127	3.78524E-05
T020	HORIZONTAL	Thurman	653236.6	4221602	17.97	4.6	533	18	0.127	3.78524E-05
T021	HORIZONTAL	Thurman	653261.6	4221602	17.98	4.6	533	18	0.127	3.78524E-05
T022	HORIZONTAL	Thurman	653286.6	4221602	18	4.6	533	18	0.127	3.78524E-05
T023	HORIZONTAL	Thurman	653386.6	4221602	18.17	4.6	533	18	0.127	3.78524E-05

APPENDIX A, TABLE 1

AERMOD Source Inputs – PG&E Thurman Switching Station/LEU Portion of the Project ("Guild")

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
T024	HORIZONTAL	Thurman	653411.6	4221602	18.25	4.6	533	18	0.127	3.78524E-05
T025	HORIZONTAL	Thurman	653436.6	4221602	18.25	4.6	533	18	0.127	3.78524E-05
T026	HORIZONTAL	Thurman	653461.6	4221602	18.34	4.6	533	18	0.127	3.78524E-05
T027	HORIZONTAL	Thurman	653486.6	4221602	18.37	4.6	533	18	0.127	3.78524E-05
T028	HORIZONTAL	Thurman	653386.6	4221627	18.24	4.6	533	18	0.127	3.78524E-05
T029	HORIZONTAL	Thurman	653411.6	4221627	18.25	4.6	533	18	0.127	3.78524E-05
T030	HORIZONTAL	Thurman	653436.6	4221627	18.34	4.6	533	18	0.127	3.78524E-05
T031	HORIZONTAL	Thurman	653461.6	4221627	18.34	4.6	533	18	0.127	3.78524E-05
T032	HORIZONTAL	Thurman	653486.6	4221627	18.43	4.6	533	18	0.127	3.78524E-05
T033	HORIZONTAL	Thurman	653511.6	4221627	18.51	4.6	533	18	0.127	3.78524E-05
T034	HORIZONTAL	Thurman	653386.6	4221652	18.24	4.6	533	18	0.127	3.78524E-05
T035	HORIZONTAL	Thurman	653411.6	4221652	18.25	4.6	533	18	0.127	3.78524E-05
T036	HORIZONTAL	Thurman	653436.6	4221652	18.34	4.6	533	18	0.127	3.78524E-05
T037	HORIZONTAL	Thurman	653461.6	4221652	18.34	4.6	533	18	0.127	3.78524E-05
T038	HORIZONTAL	Thurman	653486.6	4221652	18.46	4.6	533	18	0.127	3.78524E-05
T039	HORIZONTAL	Thurman	653511.6	4221652	18.53	4.6	533	18	0.127	3.78524E-05
T040	HORIZONTAL	Thurman	653386.6	4221677	18.26	4.6	533	18	0.127	3.78524E-05
T041	HORIZONTAL	Thurman	653411.6	4221677	18.26	4.6	533	18	0.127	3.78524E-05

APPENDIX A, TABLE 1

AERMOD Source Inputs – PG&E Thurman Switching Station/LEU Portion of the Project ("Guild")

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
T042	HORIZONTAL	Thurman	653436.6	4221677	18.34	4.6	533	18	0.127	3.78524E-05
T043	HORIZONTAL	Thurman	653461.6	4221677	18.36	4.6	533	18	0.127	3.78524E-05
T044	HORIZONTAL	Thurman	653486.6	4221677	18.53	4.6	533	18	0.127	3.78524E-05
T045	HORIZONTAL	Thurman	653511.6	4221677	18.46	4.6	533	18	0.127	3.78524E-05

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
L001	HORIZONTAL	661153.2	4220383	25.06	4.6	533	18	0.127	7.91665E-06
L002	HORIZONTAL	661178.2	4220383	25.08	4.6	533	18	0.127	7.91665E-06
L003	HORIZONTAL	661203.2	4220383	25.11	4.6	533	18	0.127	7.91665E-06
L004	HORIZONTAL	661228.2	4220383	25.12	4.6	533	18	0.127	7.91665E-06
L005	HORIZONTAL	661253.2	4220383	25.13	4.6	533	18	0.127	7.91665E-06
L006	HORIZONTAL	661128.2	4220408	25	4.6	533	18	0.127	7.91665E-06
L007	HORIZONTAL	661153.2	4220408	25.04	4.6	533	18	0.127	7.91665E-06
L008	HORIZONTAL	661178.2	4220408	25.08	4.6	533	18	0.127	7.91665E-06
L009	HORIZONTAL	661203.2	4220408	25.11	4.6	533	18	0.127	7.91665E-06
L010	HORIZONTAL	661228.2	4220408	25.14	4.6	533	18	0.127	7.91665E-06
L011	HORIZONTAL	661253.2	4220408	25.24	4.6	533	18	0.127	7.91665E-06
L012	HORIZONTAL	661278.2	4220408	25.32	4.6	533	18	0.127	7.91665E-06
L013	HORIZONTAL	661303.2	4220408	25.28	4.6	533	18	0.127	7.91665E-06
L014	HORIZONTAL	661328.2	4220408	24.93	4.6	533	18	0.127	7.91665E-06
L015	HORIZONTAL	661353.2	4220408	24.83	4.6	533	18	0.127	7.91665E-06
L016	HORIZONTAL	661378.2	4220408	24.85	4.6	533	18	0.127	7.91665E-06
L017	HORIZONTAL	661403.2	4220408	24.86	4.6	533	18	0.127	7.91665E-06
L018	HORIZONTAL	661428.2	4220408	24.9	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X)	Northing (Y)	Base Elevation	Stack Height	Temperature	Exit Velocity	Stack Diameter	DPM Emission Rate
		(m)	(m)	(m)	(m)	(K)	(m/s)	(m)	(g/s)
L019	HORIZONTAL	661453.2	4220408	24.96	4.6	533	18	0.127	7.91665E-06
L020	HORIZONTAL	661128.2	4220433	24.99	4.6	533	18	0.127	7.91665E-06
L021	HORIZONTAL	661153.2	4220433	25.03	4.6	533	18	0.127	7.91665E-06
L022	HORIZONTAL	661178.2	4220433	25.08	4.6	533	18	0.127	7.91665E-06
L023	HORIZONTAL	661203.2	4220433	25.11	4.6	533	18	0.127	7.91665E-06
L024	HORIZONTAL	661228.2	4220433	25.15	4.6	533	18	0.127	7.91665E-06
L025	HORIZONTAL	661253.2	4220433	25.27	4.6	533	18	0.127	7.91665E-06
L026	HORIZONTAL	661278.2	4220433	25.37	4.6	533	18	0.127	7.91665E-06
L027	HORIZONTAL	661303.2	4220433	25.37	4.6	533	18	0.127	7.91665E-06
L028	HORIZONTAL	661328.2	4220433	25.2	4.6	533	18	0.127	7.91665E-06
L029	HORIZONTAL	661353.2	4220433	25.08	4.6	533	18	0.127	7.91665E-06
L030	HORIZONTAL	661378.2	4220433	25.07	4.6	533	18	0.127	7.91665E-06
L031	HORIZONTAL	661403.2	4220433	25.07	4.6	533	18	0.127	7.91665E-06
L032	HORIZONTAL	661428.2	4220433	25.08	4.6	533	18	0.127	7.91665E-06
L033	HORIZONTAL	661453.2	4220433	25.11	4.6	533	18	0.127	7.91665E-06
L034	HORIZONTAL	661128.2	4220458	25.01	4.6	533	18	0.127	7.91665E-06
L035	HORIZONTAL	661153.2	4220458	25.05	4.6	533	18	0.127	7.91665E-06
L036	HORIZONTAL	661178.2	4220458	25.08	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X)	Northing (Y)	Base Elevation	Stack Height	Temperature	Exit Velocity	Stack Diameter	DPM Emission Rate
		(m)	(m)	(m)	(m)	(K)	(m/s)	(m)	(g/s)
L037	HORIZONTAL	661203.2	4220458	25.11	4.6	533	18	0.127	7.91665E-06
L038	HORIZONTAL	661228.2	4220458	25.14	4.6	533	18	0.127	7.91665E-06
L039	HORIZONTAL	661253.2	4220458	25.23	4.6	533	18	0.127	7.91665E-06
L040	HORIZONTAL	661278.2	4220458	25.29	4.6	533	18	0.127	7.91665E-06
L041	HORIZONTAL	661303.2	4220458	25.33	4.6	533	18	0.127	7.91665E-06
L042	HORIZONTAL	661328.2	4220458	25.34	4.6	533	18	0.127	7.91665E-06
L043	HORIZONTAL	661353.2	4220458	25.28	4.6	533	18	0.127	7.91665E-06
L044	HORIZONTAL	661378.2	4220458	25.2	4.6	533	18	0.127	7.91665E-06
L045	HORIZONTAL	661403.2	4220458	25.17	4.6	533	18	0.127	7.91665E-06
L046	HORIZONTAL	661428.2	4220458	25.17	4.6	533	18	0.127	7.91665E-06
L047	HORIZONTAL	661453.2	4220458	25.16	4.6	533	18	0.127	7.91665E-06
L048	HORIZONTAL	661128.2	4220483	25.05	4.6	533	18	0.127	7.91665E-06
L049	HORIZONTAL	661153.2	4220483	25.08	4.6	533	18	0.127	7.91665E-06
L050	HORIZONTAL	661178.2	4220483	25.1	4.6	533	18	0.127	7.91665E-06
L051	HORIZONTAL	661203.2	4220483	25.11	4.6	533	18	0.127	7.91665E-06
L052	HORIZONTAL	661228.2	4220483	25.14	4.6	533	18	0.127	7.91665E-06
L053	HORIZONTAL	661253.2	4220483	25.18	4.6	533	18	0.127	7.91665E-06
L054	HORIZONTAL	661278.2	4220483	25.24	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X)	Northing (Y)	Base Elevation	Stack Height	Temperature	Exit Velocity	Stack Diameter	DPM Emission Rate
		(m)	(m)	(m)	(m)	(K)	(m/s)	(m)	(g/s)
L055	HORIZONTAL	661303.2	4220483	25.3	4.6	533	18	0.127	7.91665E-06
L056	HORIZONTAL	661328.2	4220483	25.35	4.6	533	18	0.127	7.91665E-06
L057	HORIZONTAL	661353.2	4220483	25.38	4.6	533	18	0.127	7.91665E-06
L058	HORIZONTAL	661378.2	4220483	25.31	4.6	533	18	0.127	7.91665E-06
L059	HORIZONTAL	661403.2	4220483	25.25	4.6	533	18	0.127	7.91665E-06
L060	HORIZONTAL	661428.2	4220483	25.23	4.6	533	18	0.127	7.91665E-06
L061	HORIZONTAL	661453.2	4220483	25.18	4.6	533	18	0.127	7.91665E-06
L062	HORIZONTAL	661128.2	4220508	25.08	4.6	533	18	0.127	7.91665E-06
L063	HORIZONTAL	661153.2	4220508	25.11	4.6	533	18	0.127	7.91665E-06
L064	HORIZONTAL	661178.2	4220508	25.12	4.6	533	18	0.127	7.91665E-06
L065	HORIZONTAL	661203.2	4220508	25.15	4.6	533	18	0.127	7.91665E-06
L066	HORIZONTAL	661228.2	4220508	25.16	4.6	533	18	0.127	7.91665E-06
L067	HORIZONTAL	661253.2	4220508	25.18	4.6	533	18	0.127	7.91665E-06
L068	HORIZONTAL	661278.2	4220508	25.22	4.6	533	18	0.127	7.91665E-06
L069	HORIZONTAL	661303.2	4220508	25.29	4.6	533	18	0.127	7.91665E-06
L070	HORIZONTAL	661328.2	4220508	25.35	4.6	533	18	0.127	7.91665E-06
L071	HORIZONTAL	661353.2	4220508	25.37	4.6	533	18	0.127	7.91665E-06
L072	HORIZONTAL	661378.2	4220508	25.35	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X)	Northing (Y)	Base Elevation	Stack Height	Temperature	Exit Velocity	Stack Diameter	DPM Emission Rate
		(m)	(m)	(m)	(m)	(K)	(m/s)	(m)	(g/s)
L073	HORIZONTAL	661403.2	4220508	25.29	4.6	533	18	0.127	7.91665E-06
L074	HORIZONTAL	661428.2	4220508	25.23	4.6	533	18	0.127	7.91665E-06
L075	HORIZONTAL	661453.2	4220508	25.19	4.6	533	18	0.127	7.91665E-06
L076	HORIZONTAL	661128.2	4220533	25.11	4.6	533	18	0.127	7.91665E-06
L077	HORIZONTAL	661153.2	4220533	25.12	4.6	533	18	0.127	7.91665E-06
L078	HORIZONTAL	661178.2	4220533	25.16	4.6	533	18	0.127	7.91665E-06
L079	HORIZONTAL	661203.2	4220533	25.18	4.6	533	18	0.127	7.91665E-06
L080	HORIZONTAL	661228.2	4220533	25.2	4.6	533	18	0.127	7.91665E-06
L081	HORIZONTAL	661253.2	4220533	25.2	4.6	533	18	0.127	7.91665E-06
L082	HORIZONTAL	661278.2	4220533	25.23	4.6	533	18	0.127	7.91665E-06
L083	HORIZONTAL	661303.2	4220533	25.28	4.6	533	18	0.127	7.91665E-06
L084	HORIZONTAL	661328.2	4220533	25.32	4.6	533	18	0.127	7.91665E-06
L085	HORIZONTAL	661353.2	4220533	25.34	4.6	533	18	0.127	7.91665E-06
L086	HORIZONTAL	661378.2	4220533	25.33	4.6	533	18	0.127	7.91665E-06
L087	HORIZONTAL	661403.2	4220533	25.28	4.6	533	18	0.127	7.91665E-06
L088	HORIZONTAL	661428.2	4220533	25.25	4.6	533	18	0.127	7.91665E-06
L089	HORIZONTAL	661453.2	4220533	25.21	4.6	533	18	0.127	7.91665E-06
L090	HORIZONTAL	661128.2	4220558	25.13	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
L091	HORIZONTAL	661153.2	4220558	25.15	4.6	533	18	0.127	7.91665E-06
L092	HORIZONTAL	661178.2	4220558	25.17	4.6	533	18	0.127	7.91665E-06
L093	HORIZONTAL	661203.2	4220558	25.21	4.6	533	18	0.127	7.91665E-06
L094	HORIZONTAL	661228.2	4220558	25.22	4.6	533	18	0.127	7.91665E-06
L095	HORIZONTAL	661253.2	4220558	25.24	4.6	533	18	0.127	7.91665E-06
L096	HORIZONTAL	661278.2	4220558	25.25	4.6	533	18	0.127	7.91665E-06
L097	HORIZONTAL	661303.2	4220558	25.28	4.6	533	18	0.127	7.91665E-06
L098	HORIZONTAL	661328.2	4220558	25.29	4.6	533	18	0.127	7.91665E-06
L099	HORIZONTAL	661353.2	4220558	25.31	4.6	533	18	0.127	7.91665E-06
L100	HORIZONTAL	661378.2	4220558	25.31	4.6	533	18	0.127	7.91665E-06
L101	HORIZONTAL	661403.2	4220558	25.29	4.6	533	18	0.127	7.91665E-06
L102	HORIZONTAL	661428.2	4220558	25.25	4.6	533	18	0.127	7.91665E-06
L103	HORIZONTAL	661453.2	4220558	25.24	4.6	533	18	0.127	7.91665E-06
L104	HORIZONTAL	661128.2	4220583	25.16	4.6	533	18	0.127	7.91665E-06
L105	HORIZONTAL	661153.2	4220583	25.18	4.6	533	18	0.127	7.91665E-06
L106	HORIZONTAL	661178.2	4220583	25.21	4.6	533	18	0.127	7.91665E-06
L107	HORIZONTAL	661203.2	4220583	25.22	4.6	533	18	0.127	7.91665E-06
L108	HORIZONTAL	661228.2	4220583	25.24	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 2

AERMOD Source Inputs – PG&E Lockeford Substation

PG&E: Northern San Joaquin 230 kV Transmission Project

Source ID	Stack Release Type	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	DPM Emission Rate (g/s)
L109	HORIZONTAL	661253.2	4220583	25.26	4.6	533	18	0.127	7.91665E-06
L110	HORIZONTAL	661278.2	4220583	25.27	4.6	533	18	0.127	7.91665E-06
L111	HORIZONTAL	661303.2	4220583	25.28	4.6	533	18	0.127	7.91665E-06
L112	HORIZONTAL	661328.2	4220583	25.29	4.6	533	18	0.127	7.91665E-06
L113	HORIZONTAL	661353.2	4220583	25.29	4.6	533	18	0.127	7.91665E-06
L114	HORIZONTAL	661378.2	4220583	25.29	4.6	533	18	0.127	7.91665E-06
L115	HORIZONTAL	661403.2	4220583	25.28	4.6	533	18	0.127	7.91665E-06
L116	HORIZONTAL	661428.2	4220583	25.28	4.6	533	18	0.127	7.91665E-06
L117	HORIZONTAL	661453.2	4220583	25.28	4.6	533	18	0.127	7.91665E-06
L118	HORIZONTAL	661328.2	4220608	25.29	4.6	533	18	0.127	7.91665E-06
L119	HORIZONTAL	661353.2	4220608	25.3	4.6	533	18	0.127	7.91665E-06
L120	HORIZONTAL	661378.2	4220608	25.3	4.6	533	18	0.127	7.91665E-06
L121	HORIZONTAL	661403.2	4220608	25.31	4.6	533	18	0.127	7.91665E-06
L122	HORIZONTAL	661428.2	4220608	25.31	4.6	533	18	0.127	7.91665E-06
L123	HORIZONTAL	661453.2	4220608	25.32	4.6	533	18	0.127	7.91665E-06

APPENDIX A, TABLE 3

AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661131.1	4220389	25.03	25.03
661131.1	4220370	25.08	25.08
661153.4	4220373	25.08	25.08
661175.7	4220375	25.08	25.08
661198	4220377	25.1	25.1
661220.3	4220380	25.11	25.11
661242.6	4220382	25.12	25.12
661264.9	4220384	25.18	25.18
661287.1	4220386	25.13	25.13
661309.4	4220389	24.87	24.87
661332.9	4220391	24.9	24.9
661356.4	4220393	24.95	24.95
661379.9	4220395	24.99	24.99
661403.3	4220397	25.03	25.03
661426.8	4220399	25.03	25.03
661450.3	4220401	25.03	25.03
661473.8	4220403	25.04	25.04
661473.4	4220425	25.05	25.05
661473	4220447	25.12	25.12
661472.5	4220468	25.13	25.13
661472.1	4220490	25.14	25.14
661471.7	4220512	25.18	25.18
661471.3	4220533	25.21	25.21
661470.6	4220555	25.24	25.24
661469.8	4220576	25.28	25.28
661469.1	4220598	25.32	25.32
661468.3	4220619	25.35	25.35

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661448	4220618	25.34	25.34
661427.7	4220617	25.33	25.33
661407.4	4220616	25.32	25.32
661382.9	4220613	25.3	25.3
661358.4	4220611	25.3	25.3
661333.9	4220609	25.29	25.29
661309.4	4220607	25.29	25.29
661284.9	4220604	25.29	25.29
661260.4	4220602	25.27	25.27
661235.9	4220600	25.26	25.26
661211.4	4220598	25.24	25.24
661186.9	4220595	25.23	25.23
661166.4	4220593	25.2	25.2
661145.9	4220591	25.18	25.18
661125.3	4220589	25.16	25.16
661104.8	4220586	25.15	25.15
661106.1	4220561	25.12	25.12
661107.4	4220537	25.1	25.1
661108.8	4220512	25.07	25.07
661110.1	4220487	25.04	25.04
661111.4	4220462	25	25
661112.8	4220437	24.97	24.97
661114.1	4220413	24.97	24.97
661115.4	4220388	25.02	25.02
661125	4220275	24.77	24.77
661150	4220275	24.76	24.76
661175	4220275	24.73	24.73
661075	4220300	24.81	24.81

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661100	4220300	24.87	24.87
661125	4220300	24.89	24.89
661150	4220300	24.89	24.89
661175	4220300	24.87	24.87
661200	4220300	24.83	24.83
661225	4220300	24.77	24.77
661250	4220300	24.68	24.68
661275	4220300	24.56	24.56
661300	4220300	24.53	24.53
661325	4220300	25.42	25.42
661350	4220300	25.47	25.47
661375	4220300	25.48	25.48
661400	4220300	25.47	25.47
661425	4220300	25.49	25.49
661050	4220325	24.78	24.78
661075	4220325	24.88	24.88
661100	4220325	24.97	24.97
661125	4220325	25.01	25.01
661150	4220325	25	25
661175	4220325	24.97	24.97
661200	4220325	24.95	24.95
661225	4220325	24.92	24.92
661250	4220325	24.85	24.85
661275	4220325	24.7	24.7
661300	4220325	24.6	24.6
661325	4220325	25.4	25.4
661350	4220325	25.45	25.45
661375	4220325	25.47	25.47

APPENDIX A, TABLE 3

AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661400	4220325	25.46	25.46
661425	4220325	25.46	25.46
661450	4220325	25.46	25.46
661475	4220325	25.45	25.45
661500	4220325	25.44	25.44
661525	4220325	25.42	25.42
661025	4220350	24.75	24.75
661050	4220350	24.82	24.82
661075	4220350	24.91	24.91
661100	4220350	25.03	25.03
661125	4220350	25.08	25.08
661150	4220350	25.07	25.07
661175	4220350	25.07	25.07
661200	4220350	25.05	25.05
661225	4220350	25.04	25.04
661250	4220350	25.02	25.02
661275	4220350	24.96	24.96
661300	4220350	24.69	24.69
661325	4220350	25.3	25.3
661350	4220350	25.37	25.37
661375	4220350	25.41	25.41
661400	4220350	25.41	25.41
661425	4220350	25.39	25.39
661450	4220350	25.38	25.38
661475	4220350	25.38	25.38
661500	4220350	25.37	25.37
661525	4220350	25.36	25.36
661550	4220350	25.36	25.36

APPENDIX A, TABLE 3

AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661025	4220375	24.78	24.78
661050	4220375	24.84	24.84
661075	4220375	24.93	24.93
661100	4220375	25.02	25.02
661125	4220375	25.07	25.07
661200	4220375	25.1	25.1
661225	4220375	25.11	25.11
661250	4220375	25.11	25.11
661275	4220375	25.17	25.17
661300	4220375	24.78	24.78
661325	4220375	25	25
661350	4220375	25.25	25.25
661375	4220375	25.25	25.25
661400	4220375	25.24	25.24
661425	4220375	25.24	25.24
661450	4220375	25.23	25.23
661475	4220375	25.23	25.23
661500	4220375	25.24	25.24
661525	4220375	25.25	25.25
661550	4220375	25.28	25.28
661025	4220400	24.82	24.82
661050	4220400	24.87	24.87
661075	4220400	24.93	24.93
661100	4220400	24.97	24.97
661450	4220400	25.05	25.05
661475	4220400	25.07	25.07
661500	4220400	25.09	25.09
661525	4220400	25.12	25.12

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661550	4220400	25.19	25.19
661025	4220425	24.85	24.85
661050	4220425	24.89	24.89
661075	4220425	24.92	24.92
661100	4220425	24.95	24.95
661475	4220425	25.05	25.05
661500	4220425	25.02	25.02
661525	4220425	25.12	25.12
661550	4220425	25.17	25.17
661025	4220450	24.88	24.88
661050	4220450	24.91	24.91
661075	4220450	24.94	24.94
661100	4220450	24.97	24.97
661475	4220450	25.12	25.12
661500	4220450	25.08	25.08
661525	4220450	25.11	25.11
661550	4220450	25.15	25.15
661025	4220475	24.91	24.91
661050	4220475	24.94	24.94
661075	4220475	24.98	24.98
661100	4220475	25	25
661475	4220475	25.12	25.12
661500	4220475	25.1	25.1
661525	4220475	25.13	25.13
661550	4220475	25.18	25.18
661025	4220500	24.94	24.94
661050	4220500	24.98	24.98
661075	4220500	25.01	25.01

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661100	4220500	25.04	25.04
661475	4220500	25.16	25.16
661500	4220500	25.15	25.15
661525	4220500	25.18	25.18
661550	4220500	25.22	25.22
661025	4220525	24.98	24.98
661050	4220525	25.02	25.02
661075	4220525	25.05	25.05
661100	4220525	25.08	25.08
661475	4220525	25.2	25.2
661500	4220525	25.2	25.2
661525	4220525	25.23	25.23
661550	4220525	25.27	25.27
661025	4220550	25.02	25.02
661050	4220550	25.05	25.05
661075	4220550	25.08	25.08
661100	4220550	25.11	25.11
661475	4220550	25.24	25.24
661500	4220550	25.24	25.24
661525	4220550	25.28	25.28
661550	4220550	25.31	25.31
661025	4220575	25.06	25.06
661050	4220575	25.09	25.09
661075	4220575	25.11	25.11
661100	4220575	25.13	25.13
661475	4220575	25.28	25.28
661500	4220575	25.29	25.29
661525	4220575	25.32	25.32

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661550	4220575	25.35	25.35
661025	4220600	25.09	25.09
661050	4220600	25.12	25.12
661075	4220600	25.14	25.14
661100	4220600	25.16	25.16
661125	4220600	25.17	25.17
661150	4220600	25.2	25.2
661175	4220600	25.22	25.22
661200	4220600	25.24	25.24
661225	4220600	25.24	25.24
661475	4220600	25.33	25.33
661500	4220600	25.34	25.34
661525	4220600	25.37	25.37
661550	4220600	25.39	25.39
661025	4220625	25.12	25.12
661050	4220625	25.14	25.14
661075	4220625	25.17	25.17
661100	4220625	25.19	25.19
661125	4220625	25.21	25.21
661150	4220625	25.23	25.23
661175	4220625	25.24	25.24
661200	4220625	25.25	25.25
661225	4220625	25.26	25.26
661250	4220625	25.28	25.28
661275	4220625	25.3	25.3
661300	4220625	25.3	25.3
661325	4220625	25.31	25.31
661350	4220625	25.31	25.31

APPENDIX A, TABLE 3

AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661375	4220625	25.31	25.31
661400	4220625	25.33	25.33
661425	4220625	25.34	25.34
661450	4220625	25.35	25.35
661475	4220625	25.37	25.37
661500	4220625	25.38	25.38
661525	4220625	25.41	25.41
661550	4220625	25.44	25.44
661050	4220650	25.17	25.17
661075	4220650	25.19	25.19
661100	4220650	25.22	25.22
661125	4220650	25.23	25.23
661150	4220650	25.24	25.24
661175	4220650	25.26	25.26
661200	4220650	25.28	25.28
661225	4220650	25.29	25.29
661250	4220650	25.3	25.3
661275	4220650	25.31	25.31
661300	4220650	25.32	25.32
661325	4220650	25.32	25.32
661350	4220650	25.33	25.33
661375	4220650	25.34	25.34
661400	4220650	25.35	25.35
661425	4220650	25.37	25.37
661450	4220650	25.39	25.39
661475	4220650	25.41	25.41
661500	4220650	25.43	25.43
661525	4220650	25.47	25.47

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661550	4220650	25.51	25.51
661075	4220675	25.21	25.21
661100	4220675	25.23	25.23
661125	4220675	25.25	25.25
661150	4220675	25.27	25.27
661175	4220675	25.29	25.29
661200	4220675	25.31	25.31
661225	4220675	25.32	25.32
661250	4220675	25.32	25.32
661275	4220675	25.33	25.33
661300	4220675	25.33	25.33
661325	4220675	25.34	25.34
661350	4220675	25.35	25.35
661375	4220675	25.37	25.37
661400	4220675	25.39	25.39
661425	4220675	25.41	25.41
661450	4220675	25.44	25.44
661475	4220675	25.45	25.45
661500	4220675	25.47	25.47
661525	4220675	25.52	25.52
661550	4220675	25.56	25.56
661250	4220700	25.35	25.35
661275	4220700	25.35	25.35
661300	4220700	25.35	25.35
661325	4220700	25.36	25.36
661350	4220700	25.38	25.38
661375	4220700	25.4	25.4
661400	4220700	25.42	25.42

APPENDIX A, TABLE 3

AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661425	4220700	25.45	25.45
661450	4220700	25.48	25.48
661475	4220700	25.5	25.5
661500	4220700	25.52	25.52
661525	4220700	25.57	25.57
661050	4220150	24.24	24.24
661100	4220150	24.22	24.22
661150	4220150	24.2	24.2
661200	4220150	24.15	24.15
661250	4220150	24.16	24.16
661300	4220150	24.17	24.17
661350	4220150	24.51	24.51
661400	4220150	24.91	24.91
660950	4220200	24.34	24.34
661000	4220200	24.37	24.37
661050	4220200	24.4	24.4
661100	4220200	24.4	24.4
661150	4220200	24.37	24.37
661200	4220200	24.31	24.31
661250	4220200	24.26	24.26
661300	4220200	24.28	24.28
661350	4220200	25	25
661400	4220200	25.18	25.18
661450	4220200	25.37	25.37
661500	4220200	25.46	25.46
661550	4220200	25.47	25.47
661600	4220200	25.6	25.6
660950	4220250	24.43	24.43

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661000	4220250	24.5	24.5
661050	4220250	24.57	24.57
661100	4220250	24.63	24.63
661150	4220250	24.61	24.61
661200	4220250	24.53	24.53
661250	4220250	24.43	24.43
661300	4220250	24.37	24.37
661350	4220250	25.31	25.31
661400	4220250	25.35	25.35
661450	4220250	25.46	25.46
661500	4220250	25.49	25.49
661550	4220250	25.49	25.49
661600	4220250	25.5	25.5
661650	4220250	25.45	25.45
660900	4220300	24.46	24.46
660950	4220300	24.52	24.52
661000	4220300	24.61	24.61
661050	4220300	24.73	24.73
661450	4220300	25.49	25.49
661500	4220300	25.47	25.47
661550	4220300	25.46	25.46
661600	4220300	25.43	25.43
661650	4220300	25.4	25.4
661700	4220300	25.33	25.33
660900	4220350	24.54	24.54
660950	4220350	24.6	24.6
661000	4220350	24.69	24.69
661600	4220350	25.35	25.35

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661650	4220350	25.31	25.31
661700	4220350	25.31	25.31
660900	4220400	24.62	24.62
660950	4220400	24.69	24.69
661000	4220400	24.78	24.78
661600	4220400	25.24	25.24
661650	4220400	25.23	25.23
661700	4220400	25.18	25.18
660900	4220450	24.7	24.7
660950	4220450	24.78	24.78
661000	4220450	24.84	24.84
661600	4220450	25.2	25.2
661650	4220450	25.25	25.25
661700	4220450	25.23	25.23
660900	4220500	24.78	24.78
660950	4220500	24.85	24.85
661000	4220500	24.91	24.91
661600	4220500	25.28	25.28
661650	4220500	25.3	25.3
661700	4220500	25.32	25.32
660900	4220550	24.84	24.84
660950	4220550	24.91	24.91
661000	4220550	24.98	24.98
661600	4220550	25.39	25.39
661650	4220550	25.45	25.45
661700	4220550	25.49	25.49
660900	4220600	24.91	24.91
660950	4220600	24.98	24.98

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661000	4220600	25.05	25.05
661600	4220600	25.47	25.47
661650	4220600	25.54	25.54
661700	4220600	25.66	25.66
660900	4220650	24.96	24.96
660950	4220650	25.05	25.05
661000	4220650	25.12	25.12
661600	4220650	25.59	25.59
661650	4220650	25.68	25.68
661700	4220650	25.8	25.8
660900	4220700	25.02	25.02
660950	4220700	25.11	25.11
661000	4220700	25.16	25.16
661050	4220700	25.21	25.21
661100	4220700	25.26	25.26
661150	4220700	25.3	25.3
661200	4220700	25.33	25.33
661550	4220700	25.61	25.61
661600	4220700	25.69	25.69
661650	4220700	25.75	25.75
661700	4220700	25.88	25.88
660950	4220750	25.14	25.14
661000	4220750	25.19	25.19
661050	4220750	25.26	25.26
661100	4220750	25.31	25.31
661150	4220750	25.35	25.35
661200	4220750	25.38	25.38
661250	4220750	25.39	25.39

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661300	4220750	25.41	25.41
661350	4220750	25.44	25.44
661400	4220750	25.49	25.49
661450	4220750	25.56	25.56
661500	4220750	25.62	25.62
661550	4220750	25.69	25.69
661600	4220750	25.76	25.76
661650	4220750	25.83	25.83
661000	4220800	25.25	25.25
661050	4220800	25.3	25.3
661100	4220800	25.35	25.35
661150	4220800	25.4	25.4
661200	4220800	25.42	25.42
661250	4220800	25.45	25.45
661300	4220800	25.48	25.48
661350	4220800	25.51	25.51
661400	4220800	25.58	25.58
661450	4220800	25.65	25.65
661500	4220800	25.71	25.71
661550	4220800	25.78	25.78
661600	4220800	25.86	25.86
661250	4220850	25.51	25.51
661300	4220850	25.56	25.56
661350	4220850	25.62	25.62
661400	4220850	25.68	25.68
661450	4220850	25.75	25.75
661500	4220850	25.82	25.82
661550	4220850	25.9	25.9

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661000	4219900	23.89	23.89
661100	4219900	23.82	23.82
661200	4219900	23.74	23.74
661300	4219900	23.7	23.7
661400	4219900	23.64	23.64
660800	4220000	24	24
660900	4220000	24.03	24.03
661000	4220000	23.98	23.98
661100	4220000	23.91	23.91
661200	4220000	23.86	23.86
661300	4220000	23.88	23.88
661400	4220000	23.61	23.61
661500	4220000	23.86	23.86
661600	4220000	24.77	24.77
661700	4220000	25.11	25.11
660800	4220100	24.09	24.09
660900	4220100	24.14	24.14
661000	4220100	24.15	24.15
661100	4220100	24.09	24.09
661200	4220100	24.04	24.04
661300	4220100	24.07	24.07
661400	4220100	24.33	24.33
661500	4220100	24.66	24.66
661600	4220100	23.03	24.6
661700	4220100	25.3	25.3
661800	4220100	25.45	25.45
660700	4220200	24.08	24.08
660800	4220200	24.21	24.21

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
660900	4220200	24.3	24.3
661700	4220200	23.46	25.14
661800	4220200	25.27	25.27
661900	4220200	25.54	25.54
660700	4220300	24.16	24.16
660800	4220300	24.33	24.33
661800	4220300	24.75	24.75
661900	4220300	25.5	25.5
660700	4220400	24.27	24.27
660800	4220400	24.44	24.44
661800	4220400	23.14	23.14
661900	4220400	24.75	25.24
660700	4220500	24.33	24.33
660800	4220500	24.58	24.58
661800	4220500	25.25	25.25
661900	4220500	25.24	25.24
660700	4220600	24.43	24.43
660800	4220600	24.71	24.71
661800	4220600	26.07	26.07
661900	4220600	26.19	26.19
660700	4220700	24.52	24.52
660800	4220700	24.82	24.82
661800	4220700	26.41	26.41
661900	4220700	26.64	26.64
660700	4220800	24.65	24.65
660800	4220800	24.95	24.95
660900	4220800	25.13	25.13
661700	4220800	26.02	26.02

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661800	4220800	26.47	26.47
661900	4220800	26.62	26.62
660800	4220900	25.1	25.1
660900	4220900	25.26	25.26
661000	4220900	25.36	25.36
661100	4220900	25.43	25.43
661200	4220900	25.52	25.52
661300	4220900	25.64	25.64
661400	4220900	25.8	25.8
661500	4220900	25.97	25.97
661600	4220900	26.11	26.11
661700	4220900	26.22	26.22
661800	4220900	26.47	26.47
660900	4221000	25.34	25.34
661000	4221000	25.38	25.38
661100	4221000	25.44	25.44
661200	4221000	25.59	25.59
661300	4221000	25.8	25.8
661400	4221000	25.99	25.99
661500	4221000	26.16	26.16
661600	4221000	26.34	26.34
661700	4221000	26.44	26.44
661300	4221100	25.71	25.71
661400	4221100	25.96	25.96
661500	4221100	26.14	26.14
661600	4221100	26.32	26.32
660750	4219500	22.87	22.87
661000	4219500	23.86	23.86

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661250	4219500	24.12	24.12
661500	4219500	24.09	24.09
661750	4219500	24.28	24.28
660500	4219750	23.49	23.49
660750	4219750	23.74	23.74
661000	4219750	23.78	23.78
661250	4219750	24.01	24.01
661500	4219750	24.32	24.32
661750	4219750	24.36	24.36
662000	4219750	24.67	24.67
660250	4220000	20.18	22.99
660500	4220000	23.76	23.76
660750	4220000	23.98	23.98
662000	4220000	25.58	25.58
662250	4220000	25.78	25.78
660250	4220250	20.27	23.66
660500	4220250	23.87	23.87
662000	4220250	26.01	26.01
662250	4220250	26.3	26.3
660250	4220500	23.81	23.81
660500	4220500	23.93	23.93
662000	4220500	25.24	25.24
662250	4220500	23.45	23.45
660250	4220750	24.57	24.57
660500	4220750	23.72	23.72
662000	4220750	26.28	26.28
662250	4220750	25.42	25.42
660250	4221000	25.03	25.03

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
660500	4221000	23.15	23.15
660750	4221000	25.1	25.1
662000	4221000	26.21	26.21
662250	4221000	26	26
660500	4221250	23.86	23.86
660750	4221250	23.43	23.43
661000	4221250	23.8	23.8
661250	4221250	24.67	24.67
661500	4221250	25.93	25.93
661750	4221250	26.46	26.46
662000	4221250	26.54	26.54
660750	4221500	25.44	25.44
661000	4221500	23.33	25.08
661250	4221500	25.75	25.75
661500	4221500	26.82	26.82
661750	4221500	26.53	26.53
660500	4218500	22.53	22.53
661000	4218500	22.47	22.47
661500	4218500	23.17	23.17
662000	4218500	23.61	23.61
660000	4219000	22.61	22.61
660500	4219000	22.65	22.65
661000	4219000	22.79	22.79
661500	4219000	23.81	23.81
662000	4219000	24.48	24.48
662500	4219000	25.41	25.41
659500	4219500	22.09	22.09
660000	4219500	22.42	22.42

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
660500	4219500	23.13	23.13
662000	4219500	24.1	24.1
662500	4219500	25.55	25.55
663000	4219500	26.89	26.89
659500	4220000	22.83	22.83
660000	4220000	23.53	23.53
662500	4220000	26.6	26.6
663000	4220000	25.51	25.51
659500	4220500	23.31	23.31
660000	4220500	23.85	23.85
662500	4220500	26.8	26.8
663000	4220500	26.99	26.99
659500	4221000	23.91	23.91
660000	4221000	24.63	24.63
662500	4221000	25.34	25.34
663000	4221000	28.03	28.03
659500	4221500	24.43	24.43
660000	4221500	25.03	25.03
660500	4221500	25.25	25.25
662000	4221500	27.14	27.14
662500	4221500	27.65	27.65
663000	4221500	28.02	28.02
660000	4222000	25.23	25.23
660500	4222000	25.19	25.19
661000	4222000	26.63	26.63
661500	4222000	26.63	26.63
662000	4222000	26.55	26.55
662500	4222000	27.89	27.89

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AERMOD Receptor – Thurman / Guild

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
661000	4222500	27.05	27.05
661500	4222500	27.2	27.2
662000	4222500	27.43	27.43

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653206.9	4221620	18.02	18.02
653213.4	4221603	17.97	17.97
653212.9	4221581	17.79	17.79
653212.4	4221559	17.73	17.73
653211.9	4221537	17.76	17.76
653233.9	4221536	17.71	17.71
653256	4221536	17.75	17.75
653278.1	4221535	17.83	17.83
653300.1	4221535	17.89	17.89
653322.2	4221534	18.03	18.03
653344.3	4221534	18.08	18.08
653366.3	4221534	18.2	18.2
653390.4	4221534	18.23	18.23
653414.5	4221534	18.27	18.27
653438.5	4221534	18.34	18.34
653462.6	4221534	18.34	18.34
653486.7	4221534	18.43	18.43
653492.9	4221555	18.43	18.43
653499.1	4221577	18.44	18.44
653505.3	4221599	18.43	18.43
653511.5	4221620	18.52	18.52
653519.9	4221642	18.53	18.53
653528.2	4221664	18.42	18.42
653536.5	4221685	18.47	18.47
653545.4	4221703	18.54	18.54
653548.3	4221721	18.38	18.38
653524.4	4221722	18.33	18.33
653500.5	4221723	18.33	18.33

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AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653476.5	4221724	18.32	18.32
653452.6	4221725	18.23	18.23
653428.7	4221726	18.21	18.21
653404.7	4221727	18.18	18.18
653380.8	4221728	18.11	18.11
653356.8	4221729	18.14	18.14
653332.9	4221730	18.07	18.07
653309	4221731	18.12	18.12
653306.2	4221712	18.1	18.1
653306.1	4221691	18.14	18.14
653306	4221669	18.16	18.16
653286.8	4221669	18.15	18.15
653267.6	4221669	18.13	18.13
653267.4	4221644	18.1	18.1
653267.1	4221620	18.09	18.09
653247	4221620	18.09	18.09
653227	4221620	18.07	18.07
653175	4221450	18.01	18.01
653200	4221450	18.07	18.07
653225	4221450	18.14	18.14
653250	4221450	18.21	18.21
653275	4221450	18.2	18.2
653300	4221450	18.2	18.2
653325	4221450	18.22	18.22
653350	4221450	18.33	18.33
653375	4221450	18.4	18.4
653400	4221450	18.36	18.36
653425	4221450	18.36	18.36

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653450	4221450	18.39	18.39
653475	4221450	18.42	18.42
653500	4221450	18.53	18.53
653525	4221450	18.53	18.53
653150	4221475	18.02	18.02
653175	4221475	18	18
653200	4221475	18.11	18.11
653225	4221475	18.17	18.17
653250	4221475	18.19	18.19
653275	4221475	18.2	18.2
653300	4221475	18.2	18.2
653325	4221475	18.15	18.15
653350	4221475	18.21	18.21
653375	4221475	18.2	18.2
653400	4221475	18.33	18.33
653425	4221475	18.43	18.43
653450	4221475	18.43	18.43
653475	4221475	18.43	18.43
653500	4221475	18.53	18.53
653525	4221475	18.53	18.53
653550	4221475	18.58	18.58
653125	4221500	17.89	17.89
653150	4221500	17.97	17.97
653175	4221500	17.98	17.98
653200	4221500	17.99	17.99
653225	4221500	17.99	17.99
653250	4221500	18	18
653275	4221500	18.08	18.08

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653300	4221500	18.13	18.13
653325	4221500	18.15	18.15
653350	4221500	18.19	18.19
653375	4221500	18.21	18.21
653400	4221500	18.29	18.29
653425	4221500	18.34	18.34
653450	4221500	18.45	18.45
653475	4221500	18.43	18.43
653500	4221500	18.54	18.54
653525	4221500	18.53	18.53
653550	4221500	18.53	18.53
653575	4221500	18.63	18.63
653125	4221525	17.93	17.93
653150	4221525	17.97	17.97
653175	4221525	17.88	17.88
653200	4221525	17.78	17.78
653225	4221525	17.79	17.79
653250	4221525	17.81	17.81
653275	4221525	17.86	17.86
653300	4221525	17.95	17.95
653325	4221525	18.06	18.06
653350	4221525	18.1	18.1
653375	4221525	18.22	18.22
653400	4221525	18.23	18.23
653425	4221525	18.33	18.33
653450	4221525	18.33	18.33
653475	4221525	18.38	18.38
653500	4221525	18.49	18.49

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653525	4221525	18.53	18.53
653550	4221525	18.53	18.53
653575	4221525	18.63	18.63
653125	4221550	17.99	17.99
653150	4221550	18.02	18.02
653175	4221550	17.8	17.8
653200	4221550	17.78	17.78
653500	4221550	18.43	18.43
653525	4221550	18.39	18.39
653550	4221550	18.55	18.55
653575	4221550	18.6	18.6
653125	4221575	18.16	18.16
653150	4221575	18.11	18.11
653175	4221575	17.86	17.86
653200	4221575	17.82	17.82
653500	4221575	18.43	18.43
653525	4221575	18.43	18.43
653550	4221575	18.43	18.43
653575	4221575	18.45	18.45
653600	4221575	18.6	18.6
653125	4221600	18.22	18.22
653150	4221600	18.16	18.16
653175	4221600	17.97	17.97
653200	4221600	17.93	17.93
653525	4221600	18.42	18.42
653550	4221600	18.45	18.45
653575	4221600	18.42	18.42
653600	4221600	18.43	18.43

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653125	4221625	18.15	18.15
653150	4221625	18.15	18.15
653175	4221625	18.05	18.05
653200	4221625	18.03	18.03
653225	4221625	18.11	18.11
653250	4221625	18.13	18.13
653525	4221625	18.53	18.53
653550	4221625	18.53	18.53
653575	4221625	18.53	18.53
653600	4221625	18.53	18.53
653125	4221650	18.13	18.13
653150	4221650	18.05	18.05
653175	4221650	18.04	18.04
653200	4221650	18.02	18.02
653225	4221650	18.08	18.08
653250	4221650	18.1	18.1
653525	4221650	18.47	18.47
653550	4221650	18.53	18.53
653575	4221650	18.53	18.53
653600	4221650	18.52	18.52
653625	4221650	18.56	18.56
653125	4221675	18.13	18.13
653150	4221675	18.05	18.05
653175	4221675	17.99	17.99
653200	4221675	18.09	18.09
653225	4221675	18.08	18.08
653250	4221675	18.08	18.08
653275	4221675	18.16	18.16

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653300	4221675	18.14	18.14
653550	4221675	18.53	18.53
653575	4221675	18.53	18.53
653600	4221675	18.63	18.63
653625	4221675	18.63	18.63
653150	4221700	18.19	18.19
653175	4221700	18.07	18.07
653200	4221700	18.05	18.05
653225	4221700	18.11	18.11
653250	4221700	18.12	18.12
653275	4221700	18.15	18.15
653300	4221700	18.13	18.13
653550	4221700	18.54	18.54
653575	4221700	18.56	18.56
653600	4221700	18.63	18.63
653625	4221700	18.65	18.65
653200	4221725	18.05	18.05
653225	4221725	18.04	18.04
653250	4221725	18.11	18.11
653275	4221725	18.12	18.12
653300	4221725	18.08	18.08
653475	4221725	18.32	18.32
653500	4221725	18.33	18.33
653525	4221725	18.33	18.33
653550	4221725	18.39	18.39
653575	4221725	18.42	18.42
653600	4221725	18.53	18.53
653625	4221725	18.53	18.53

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653225	4221750	18.04	18.04
653250	4221750	18.07	18.07
653275	4221750	18.12	18.12
653300	4221750	18.12	18.12
653325	4221750	18.19	18.19
653350	4221750	18.08	18.08
653375	4221750	18.12	18.12
653400	4221750	18.19	18.19
653425	4221750	18.18	18.18
653450	4221750	18.24	18.24
653475	4221750	18.26	18.26
653500	4221750	18.29	18.29
653525	4221750	18.33	18.33
653550	4221750	18.36	18.36
653575	4221750	18.43	18.43
653600	4221750	18.49	18.49
653625	4221750	18.53	18.53
653225	4221775	18.04	18.04
653250	4221775	18.08	18.08
653275	4221775	18.1	18.1
653300	4221775	18.13	18.13
653325	4221775	18.13	18.13
653350	4221775	18.18	18.18
653375	4221775	18.15	18.15
653400	4221775	18.19	18.19
653425	4221775	18.17	18.17
653450	4221775	18.24	18.24
653475	4221775	18.22	18.22

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653500	4221775	18.23	18.23
653525	4221775	18.33	18.33
653550	4221775	18.33	18.33
653575	4221775	18.43	18.43
653600	4221775	18.49	18.49
653625	4221775	18.53	18.53
653250	4221800	18.07	18.07
653275	4221800	18.08	18.08
653300	4221800	18.1	18.1
653325	4221800	18.13	18.13
653350	4221800	18.16	18.16
653375	4221800	18.23	18.23
653400	4221800	18.19	18.19
653425	4221800	18.18	18.18
653450	4221800	18.12	18.12
653475	4221800	18.19	18.19
653500	4221800	18.23	18.23
653525	4221800	18.32	18.32
653550	4221800	18.36	18.36
653575	4221800	18.43	18.43
653600	4221800	18.49	18.49
653300	4221825	18.07	18.07
653325	4221825	18.13	18.13
653350	4221825	18.11	18.11
653375	4221825	18.23	18.23
653400	4221825	18.2	18.2
653425	4221825	18.19	18.19
653450	4221825	18.04	18.04

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653150	4221300	17.57	17.57
653200	4221300	17.71	17.71
653250	4221300	17.97	17.97
653300	4221300	18.18	18.18
653350	4221300	18.1	18.1
653400	4221300	18.09	18.09
653450	4221300	18.33	18.33
653500	4221300	18.52	18.52
653550	4221300	18.59	18.59
653050	4221350	17.34	17.34
653100	4221350	17.56	17.56
653150	4221350	17.67	17.67
653200	4221350	17.81	17.81
653250	4221350	18.03	18.03
653300	4221350	18.13	18.13
653350	4221350	18.33	18.33
653400	4221350	18.2	18.2
653450	4221350	18.3	18.3
653500	4221350	18.44	18.44
653550	4221350	18.54	18.54
653600	4221350	18.64	18.64
653650	4221350	18.69	18.69
653050	4221400	17.46	17.46
653100	4221400	17.73	17.73
653150	4221400	17.74	17.74
653200	4221400	17.88	17.88
653250	4221400	18.03	18.03
653300	4221400	18.12	18.12

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653350	4221400	18.21	18.21
653400	4221400	18.22	18.22
653450	4221400	18.33	18.33
653500	4221400	18.48	18.48
653550	4221400	18.59	18.59
653600	4221400	18.63	18.63
653650	4221400	18.73	18.73
653000	4221450	17.25	17.25
653050	4221450	17.62	17.62
653100	4221450	17.88	17.88
653150	4221450	17.95	17.95
653550	4221450	18.59	18.59
653600	4221450	18.66	18.66
653650	4221450	18.8	18.8
653700	4221450	18.73	18.73
653000	4221500	17.22	17.22
653050	4221500	17.59	17.59
653100	4221500	17.76	17.76
653600	4221500	18.63	18.63
653650	4221500	18.74	18.74
653700	4221500	18.83	18.83
653000	4221550	17.09	17.09
653050	4221550	17.46	17.46
653100	4221550	17.74	17.74
653600	4221550	18.63	18.63
653650	4221550	18.73	18.73
653700	4221550	18.79	18.79
653750	4221550	18.93	18.93

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AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653000	4221600	16.72	16.72
653050	4221600	17.26	17.26
653100	4221600	17.9	17.9
653650	4221600	18.67	18.67
653700	4221600	18.73	18.73
653750	4221600	18.86	18.86
653000	4221650	16.73	16.73
653050	4221650	17.21	17.21
653100	4221650	17.81	17.81
653650	4221650	18.63	18.63
653700	4221650	18.73	18.73
653750	4221650	18.66	18.66
653000	4221700	16.69	16.69
653050	4221700	17.32	17.32
653100	4221700	17.99	17.99
653650	4221700	18.71	18.71
653700	4221700	18.65	18.65
653750	4221700	18.53	18.53
653000	4221750	16.5	16.5
653050	4221750	17.28	17.28
653100	4221750	18.07	18.07
653150	4221750	18.47	18.47
653200	4221750	18.06	18.06
653650	4221750	18.53	18.53
653700	4221750	18.43	18.43
653750	4221750	18.53	18.53
653050	4221800	17.15	17.15
653100	4221800	17.9	17.9

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653150	4221800	18.53	18.53
653200	4221800	18.22	18.22
653650	4221800	18.33	18.33
653700	4221800	18.33	18.33
653750	4221800	18.57	18.57
653100	4221850	17.65	17.65
653150	4221850	18.27	18.27
653200	4221850	18.4	18.4
653250	4221850	18.04	18.04
653300	4221850	18.06	18.06
653350	4221850	18.09	18.09
653400	4221850	18.21	18.21
653450	4221850	18.04	18.04
653500	4221850	18.22	18.22
653550	4221850	18.3	18.3
653600	4221850	18.23	18.23
653650	4221850	18.26	18.26
653700	4221850	18.41	18.41
653750	4221850	18.51	18.51
653150	4221900	18.01	18.01
653200	4221900	18.36	18.36
653250	4221900	18.17	18.17
653300	4221900	17.96	17.96
653350	4221900	18.04	18.04
653400	4221900	18.04	18.04
653450	4221900	18.02	18.02
653500	4221900	18.15	18.15
653550	4221900	18.06	18.06

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653600	4221900	18.13	18.13
653650	4221900	18.25	18.25
653700	4221900	18.37	18.37
653200	4221950	18.29	18.29
653250	4221950	18.23	18.23
653300	4221950	18.07	18.07
653350	4221950	18.01	18.01
653400	4221950	17.85	17.85
653450	4221950	17.9	17.9
653500	4221950	17.93	17.93
653550	4221950	18.03	18.03
653600	4221950	18.08	18.08
653000	4221100	17.44	17.44
653100	4221100	17.43	17.43
653200	4221100	17.54	17.54
653300	4221100	17.75	17.75
653400	4221100	17.99	17.99
653500	4221100	18.15	18.15
653600	4221100	18.23	18.23
653700	4221100	18.43	18.43
652900	4221200	17.45	17.45
653000	4221200	17.36	17.36
653100	4221200	17.35	17.35
653200	4221200	17.62	17.62
653300	4221200	17.84	17.84
653400	4221200	18.22	18.22
653500	4221200	18.4	18.4
653600	4221200	18.38	18.38

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653700	4221200	18.54	18.54
653800	4221200	18.73	18.73
652800	4221300	17.04	17.04
652900	4221300	17.11	17.11
653000	4221300	17.12	17.12
653100	4221300	17.38	17.38
653600	4221300	18.59	18.59
653700	4221300	18.64	18.64
653800	4221300	18.8	18.8
653900	4221300	18.92	18.92
652800	4221400	16.22	16.22
652900	4221400	16.82	16.82
653000	4221400	17.24	17.24
653700	4221400	18.73	18.73
653800	4221400	18.83	18.83
653900	4221400	18.83	18.83
652800	4221500	16.22	16.22
652900	4221500	16.71	16.71
653800	4221500	18.83	18.83
653900	4221500	18.89	18.89
654000	4221500	19.03	19.03
652800	4221600	16.22	16.22
652900	4221600	16.35	16.35
653800	4221600	18.73	18.73
653900	4221600	18.94	18.94
654000	4221600	19.03	19.03
652800	4221700	15.95	15.95
652900	4221700	15.95	15.95

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653800	4221700	18.73	18.73
653900	4221700	19.03	19.03
654000	4221700	19.03	19.03
652800	4221800	15.95	15.95
652900	4221800	15.95	15.95
653000	4221800	16.38	16.38
653800	4221800	18.73	18.73
653900	4221800	18.83	18.83
654000	4221800	19.04	19.04
652800	4221900	15.95	15.95
652900	4221900	15.95	15.95
653000	4221900	15.96	15.96
653100	4221900	17.35	17.35
653800	4221900	18.63	18.63
653900	4221900	18.83	18.83
654000	4221900	19.04	19.04
652900	4222000	15.95	15.95
653000	4222000	15.95	15.95
653100	4222000	16.9	16.9
653200	4222000	18.03	18.03
653300	4222000	18.11	18.11
653400	4222000	17.79	17.79
653500	4222000	17.92	17.92
653600	4222000	18.05	18.05
653700	4222000	18.33	18.33
653800	4222000	18.63	18.63
653900	4222000	18.83	18.83
653000	4222100	15.95	15.95

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653100	4222100	16.4	16.4
653200	4222100	17.37	17.37
653300	4222100	17.79	17.79
653400	4222100	17.71	17.71
653500	4222100	17.83	17.83
653600	4222100	18.03	18.03
653700	4222100	18.33	18.33
653800	4222100	18.53	18.53
653200	4222200	17.02	17.02
653300	4222200	17.57	17.57
653400	4222200	17.66	17.66
653500	4222200	17.71	17.71
653600	4222200	18.01	18.01
652750	4220750	17.4	17.4
653000	4220750	17.61	17.61
653250	4220750	17.43	17.43
653500	4220750	17.58	17.58
653750	4220750	18.02	18.02
654000	4220750	18.51	18.51
652500	4221000	16.52	16.52
652750	4221000	17.4	17.4
653000	4221000	17.4	17.4
653250	4221000	17.6	17.6
653500	4221000	17.95	17.95
653750	4221000	18.34	18.34
654000	4221000	18.79	18.79
654250	4221000	19.02	19.02
652500	4221250	16.59	16.59

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
652750	4221250	17.49	17.49
654000	4221250	19.02	19.02
654250	4221250	19.04	19.04
652250	4221500	15.95	15.95
652500	4221500	15.95	15.95
654250	4221500	19.33	19.33
654500	4221500	19.46	19.46
652250	4221750	15.95	15.95
652500	4221750	15.95	15.95
654250	4221750	19.43	19.43
654500	4221750	19.73	19.73
652500	4222000	15.95	15.95
652750	4222000	15.95	15.95
654000	4222000	19.09	19.09
654250	4222000	19.44	19.44
654500	4222000	19.83	19.83
652500	4222250	15.95	15.95
652750	4222250	15.95	15.95
653000	4222250	15.95	15.95
653250	4222250	17.36	17.36
653500	4222250	17.63	17.63
653750	4222250	18.45	18.45
654000	4222250	19.13	19.13
654250	4222250	19.56	19.56
652750	4222500	15.95	15.95
653000	4222500	15.95	15.95
653250	4222500	17.38	17.38
653500	4222500	17.74	17.74

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
653750	4222500	18.77	18.77
654000	4222500	19.23	19.23
652000	4220000	15.11	15.11
652500	4220000	16.01	16.01
653000	4220000	16.64	16.64
653500	4220000	17.05	17.05
654000	4220000	17.66	17.66
654500	4220000	18.18	18.18
652000	4220500	15.4	15.4
652500	4220500	16.44	16.44
653000	4220500	17.88	17.88
653500	4220500	17.42	17.42
654000	4220500	18.19	18.19
654500	4220500	18.66	18.66
655000	4220500	19.19	19.19
651500	4221000	14.5	14.5
652000	4221000	15.29	15.29
654500	4221000	19.11	19.11
655000	4221000	19.72	19.72
651500	4221500	14.89	14.89
652000	4221500	15.75	15.75
655000	4221500	20.21	20.21
655500	4221500	20.53	20.53
651500	4222000	15.35	15.35
652000	4222000	15.75	15.75
655000	4222000	20.59	20.59
655500	4222000	20.63	20.63
651500	4222500	15.95	15.95

APPENDIX A, TABLE 4

AERMOD Receptor - Lockeford

PG&E: Northern San Joaquin 230 kV Transmission Project

East (x) (m)	North (y) (m)	Elevation (m)	Terrain Max (m)
652000	4222500	16	16
652500	4222500	15.95	15.95
654500	4222500	20.33	20.33
655000	4222500	20.73	20.73
652000	4223000	16.19	16.19
652500	4223000	19.14	19.14
653000	4223000	16.93	16.93
653500	4223000	18.04	18.04
654000	4223000	18.86	18.86
654500	4223000	20.07	20.07
655000	4223000	20.54	20.54
652500	4223500	17.85	17.85
653000	4223500	16.86	16.86
653500	4223500	16.36	16.36
654000	4223500	15.54	15.54

Appendix B
HRA Calculations

Appendix B Table 1
Cancer Impacts due to Diesel Particulate Matter - PG&E Thurman Switching Station
PG&E: Northern San Joaquin 230 kV Transmission Project

Modeled Concentrations
Maximum annual impact of annualized project emissions

				Receptor Location	
				East (x, meters)	North (y, meters)
MEIR	0.00879	µg/m^3	Diesel PM	653,900.00	4,221,700.00
Sensitive	0.00284	µg/m^3	Diesel PM	652,500.00	4,221,500.00
MEIW	0.07181	µg/m^3	Diesel PM	653,525.00	4,221,575.00

All locations expressed in UTM NAD83 Zone 10 projection and datum.
Sensitive receptor based on highest receptor concentration near Heritage Elementary School

Construction HRA per the 2015 OEHHA Guidance
Residential Calculation Procedure for Cancer Risks

MEIR

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	3.05E-06	9.20E-06	9.20E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	6.29E-06	6.29E-06	6.29E-06	6.29E-06	6.29E-06	6.29E-06	6.29E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06	2.83E-06
Risk	1.02E-07	1.23E-06	1.23E-06	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08
1-yr Risk	1.02E-07	1.23E-06	1.23E-06	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.47E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	2.13E-07	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08	3.24E-08
Risk per Million	0.10	1.23	1.23	0.25	0.25	0.25	0.25	0.25	0.25	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Sensitive

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	9.84E-07	2.97E-06	2.97E-06	2.35E-06	2.35E-06	2.35E-06	2.35E-06	2.35E-06	2.35E-06	2.03E-06	2.03E-06	2.03E-06	2.03E-06	2.03E-06	2.03E-06	2.03E-06	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07	9.13E-07
Risk	3.29E-08	3.97E-07	3.97E-07	7.97E-08	7.97E-08	7.97E-08	7.97E-08	7.97E-08	7.97E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08
1-yr Risk	3.29E-08	3.97E-07	3.97E-07	7.97E-08	7.97E-08	7.97E-08	7.97E-08	7.97E-08	7.97E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08
Risk per Million	0.03	0.40	0.40	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Worker Calculation Procedure for Cancer Risks

MEIW

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05	1.12E-05
Risk	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07
1-yr Risk	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07	1.76E-07
Risk per Million	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

Appendix B Table 2
Chronic Impacts due to Diesel Particulate Matter - PG&E Thurman Switching Station
PG&E: Northern San Joaquin 230 kV Transmission Project

Construction HRA per the 2015 OEHHA Guidance
Calculation Procedure for Chronic Hazard Index

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
MEIR	Diesel PM	0.00879	5	0.0018
Sensitive	Diesel PM	0.00284	5	0.0006
MEIW	Diesel PM	0.07181	5	0.0144

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix B, Table 1.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA and ARB, 2020).

Appendix B Table 3
Cancer Impacts due to Diesel Particulate Matter - LEU Guild Substation, LEU Industrial Substation and 12 kV Lines
PG&E: Northern San Joaquin 230 kV Transmission Project

Modeled Concentrations
Maximum annual impact of annualized project emissions

				Receptor Location	
				East (x, meters)	North (y, meters)
MEIR	0.00883	$\mu g/m^3$	Diesel PM	653,900.00	4,221,700.00
Sensitive	0.00264	$\mu g/m^3$	Diesel PM	652,500.00	4,221,500.00
MEIW	0.05097	$\mu g/m^3$	Diesel PM	653414.46	4221533.6

All locations expressed in UTM NAD83 Zone 10 projection and datum.
Sensitive receptor based on highest receptor concentration near Heritage Elementary School

Construction HRA per the 2015 OEHHA Guidance
Residential Calculation Procedure for Cancer Risks

MEIR

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	3.06E-06	9.24E-06	9.24E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	6.32E-06	6.32E-06	6.32E-06	6.32E-06	6.32E-06	6.32E-06	6.32E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06	2.84E-06
Risk	1.02E-07	1.23E-06	1.23E-06	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08
1-yr Risk	1.02E-07	1.23E-06	1.23E-06	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.48E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	2.14E-07	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08
Risk per Million	0.10	1.23	1.23	0.25	0.25	0.25	0.25	0.25	0.25	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Sensitive

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	9.15E-07	2.76E-06	2.76E-06	2.18E-06	2.18E-06	2.18E-06	2.18E-06	2.18E-06	2.18E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	1.89E-06	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07	8.49E-07
Risk	3.06E-08	3.69E-07	3.69E-07	7.41E-08	7.41E-08	7.41E-08	7.41E-08	7.41E-08	7.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09
1-yr Risk	3.06E-08	3.69E-07	3.69E-07	7.41E-08	7.41E-08	7.41E-08	7.41E-08	7.41E-08	7.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	6.41E-08	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09	9.74E-09
Risk per Million	0.03	0.37	0.37	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Worker Calculation Procedure for Cancer Risks

MEIW

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06
Risk	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07
1-yr Risk	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07	1.25E-07
Risk per Million	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

Appendix B Table 4
Chronic Impacts due to Diesel Particulate Matter -LEU Guild Substation, LEU Industrial Substation and 12 kV Lines
PG&E: Northern San Joaquin 230 kV Transmission Project

Construction HRA per the 2015 OEHHA Guidance
Calculation Procedure for Chronic Hazard Index

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
MEIR	Diesel PM	0.00883	5	0.0018
Sensitive	Diesel PM	0.00264	5	0.0005
MEIW	Diesel PM	0.05097	5	0.0102

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix B, Table 3.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA and ARB, 2020).

Appendix B Table 5
Cancer Impacts due to Diesel Particulate Matter - PG&E Thurman Switching Station & LEU Portion of the Project
PG&E: Northern San Joaquin 230 kV Transmission Project

Modeled Concentrations
Maximum annual impact of annualized project emissions

				Receptor Location	
				East (x, meters)	North (y, meters)
MEIR	0.01762	$\mu g/m^3$	Diesel PM	653,900.00	4,221,700.00
Sensitive	0.00548	$\mu g/m^3$	Diesel PM	652,500.00	4,221,500.00
MEIW	0.11326	$\mu g/m^3$	Diesel PM	653,505.32	4,221,598.53

All locations expressed in UTM NAD83 Zone 10 projection and datum.
Sensitive receptor based on highest receptor concentration near Heritage Elementary School

Construction HRA per the 2015 OEHHA Guidance
Residential Calculation Procedure for Cancer Risks

MEIR

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	6.11E-06	1.84E-05	1.84E-05	1.46E-05	1.46E-05	1.46E-05	1.46E-05	1.46E-05	1.46E-05	1.26E-05	1.26E-05	1.26E-05	1.26E-05	1.26E-05	1.26E-05	1.26E-05	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06	5.67E-06
Risk	2.04E-07	2.46E-06	2.46E-06	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08
1-yr Risk	2.04E-07	2.46E-06	2.46E-06	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.94E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	4.28E-07	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08	6.50E-08
Risk per Million	0.20	2.46	2.46	0.49	0.49	0.49	0.49	0.49	0.49	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

Sensitive

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.90E-06	5.73E-06	5.73E-06	4.53E-06	4.53E-06	4.53E-06	4.53E-06	4.53E-06	4.53E-06	3.92E-06	3.92E-06	3.92E-06	3.92E-06	3.92E-06	3.92E-06	3.92E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06
Risk	6.34E-08	7.66E-07	7.66E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08
1-yr Risk	6.34E-08	7.66E-07	7.66E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.54E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08	2.02E-08
Risk per Million	0.06	0.77	0.77	0.15	0.15	0.15	0.15	0.15	0.15	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Worker Calculation Procedure for Cancer Risks

MEIW

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05	1.77E-05
Risk	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07
1-yr Risk	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07	2.78E-07
Risk per Million	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28

Appendix B Table 6
Chronic Impacts due to Diesel Particulate Matter - Thurman Switching Stations & LEU Guild Substation
PG&E: NSJ Project

Construction HRA per the 2015 OEHHA Guidance
Calculation Procedure for Chronic Hazard Index

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
MEIR	Diesel PM	0.01762	5	0.0035
Sensitive	Diesel PM	0.00548	5	0.0011
MEIW	Diesel PM	0.11326	5	0.0227

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix B, Table 5.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA and ARB, 2020).

Appendix B Table 7
Cancer Impacts due to Diesel Particulate Matter - PG&E Lockeford Substation
PG&E: Northern San Joaquin 230 kV Transmission Project

Modeled Concentrations
Maximum annual impact of annualized project emissions

				Receptor Location	
				East (x, meters)	North (y, meters)
MEIR	0.02327	µg/m^3	Diesel PM	661,450.00	4,220,375.00
Sensitive	0.00025	µg/m^3	Diesel PM	662,000.00	4,222,500.00
MEIW	0.02636	µg/m^3	Diesel PM	661,473.36	4,220,425.13

All locations expressed in UTM NAD83 Zone 10 projection and datum.
No sensitive receptor is located within the receptor grid, therefore the is the lowest receptor concentration is used for the sensitive receptor calculation.

Construction HRA per the 2015 OEHHA Guidance
Residential Calculation Procedure for Cancer Risks

MEIR

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	8.06E-06	2.43E-05	2.43E-05	1.92E-05	1.92E-05	1.92E-05	1.92E-05	1.92E-05	1.92E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06	7.48E-06
Risk	2.69E-07	3.25E-06	3.25E-06	6.53E-07	6.53E-07	6.53E-07	6.53E-07	6.53E-07	6.53E-07	5.65E-07	5.65E-07	5.65E-07	5.65E-07	5.65E-07	5.65E-07	5.65E-07	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08	8.58E-08
Rolling 3-yr Risk				7.43E-06	4.56E-06	1.96E-06	1.96E-06	1.96E-06	1.96E-06	1.87E-06	1.78E-06	1.69E-06	1.69E-06	1.69E-06	1.69E-06	1.69E-06	1.22E-06	7.37E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07	2.58E-07
Risk per Million				7.43	4.56	1.96	1.96	1.96	1.96	1.87	1.78	1.69	1.69	1.69	1.69	1.69	1.22	0.74	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

Sensitive

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	8.66E-08	2.62E-07	2.62E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	1.79E-07	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08	8.04E-08
Risk	2.89E-09	3.49E-08	3.49E-08	7.01E-09	7.01E-09	7.01E-09	7.01E-09	7.01E-09	7.01E-09	6.07E-09	6.07E-09	6.07E-09	6.07E-09	6.07E-09	6.07E-09	6.07E-09	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10	9.22E-10
Rolling 3-yr Risk			7.28E-08	4.20E-08	1.40E-08	1.40E-08	1.40E-08	1.40E-08	1.40E-08	1.31E-08	1.21E-08	1.21E-08	1.21E-08	1.21E-08	1.21E-08	1.21E-08	6.99E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09	1.84E-09
Risk per Million			0.07	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Worker Calculation Procedure for Cancer Risks

MEIW

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06	4.12E-06
Risk	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08	6.48E-08
Rolling 3-yr Risk			1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07	1.94E-07
Risk per Million			0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

Appendix B Table 8
Chronic Impacts due to Diesel Particulate Matter - PG&E Lockeford Substation
PG&E: Northern San Joaquin 230 kV Transmission Project

Construction HRA per the 2015 OEHHA Guidance
Calculation Procedure for Chronic Hazard Index

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
MEIR	Diesel PM	0.02327	5	0.0047
Sensitive	Diesel PM	0.00025	5	5.00E-05
MEIW	Diesel PM	0.02636	5	0.0053

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix B, Table 7.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA and ARB, 2020).

Table 3
Residential Constants for Cancer Risk
PG&E: Northern San Joaquin 230 kV Transmission Project

Dose Constants

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
BR/BW	361	1090	1090	861	861	861	861	861	861	745	745	745	745	745	745	745	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335
A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Conversion	1E-06	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001

Risk Constants

Year	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CPF (Diesel PM)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ASF	10	10	10	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ED	0.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AT	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
FAH	0.85	0.85	0.85	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73

A. Equation 5.4.1.1: $\text{Dose-air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}$

1. Dose-air = Dose through inhalation (mg/kg/d)
2. C_{air} = Concentration in air ($\mu g/m^3$)
3. {BR/BW} = Daily Breathing rate normalized to body weight (L/kg body weight - day)
4. A = Inhalation absorption factor (unitless)
5. EF = Exposure frequency (unitless), days/365 days
6. 10^{-6} = Micrograms to milligrams conversion, liters to cubic meters conversion

a: Recommended default values for EQ 5.4.1.1:

1. {BR/BW} = Daily breathing rates by age groupings, see As supplemental information, the assessor may wish to evaluate the inhalation dose by using the mean point estimates in Table 5.6 to provide a range of breathing rates for cancer risk assessment to the risk manager.
2. Table (point estimates) and Table 5.7 (parametric model distributions for Tier III stochastic risk assessment). For Tier 1 residential estimates, use 95th percentile breathing rates in Table 5.6.
3. A = 1
4. EF = 0.96 (350 days/365 days in a year for a resident)

A. Equation 8.2.4 A: $\text{RISK}_{\text{inh-res}} = \text{DOSE}_{air} \times CPF \times ASF \times ED/AT \times FAH$

7. $\text{RISK}_{\text{inh-res}}$ = Residential inhalation cancer risk
8. DOSE_{air} = Daily inhalation dose (mg/kg-day)
9. CPF = Inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)
10. ASF = Age sensitivity factor for a specified age group (unitless)
11. ED = Exposure duration (in years) for a specified age group
12. AT = Averaging time for lifetime cancer risk (years)
13. FAH = Fraction of time spent at home (unitless)

a: Recommended default values for EQ 8.2.4 A:

5. DOSE_{air} = Calculated for each age group from Eq. 5.4.1
6. CPF = Substance-specific (see Table 7.1)
7. ASF = See Section 8.2.1
8. ED = 0.25 years for 3rd trimester, 2 years for 0<2, 7 years for 2<9, 14 years for 2<16, 14 years for 16<30, 54 years for 16-70
9. AT = 70 years*
10. FAH = See Table 8.4

Table 4
Worker Constants for Cancer Risk
PG&E: Northern San Joaquin 230 kV Transmission Project

Dose Constants

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
WAF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BR/BW	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EF	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Conversion	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001

Risk Constants

Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CPF (Diesel PM)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ASF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AT	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

A. Equation 5.4.1.2 A: $\text{Dose-air} = (C_{air} \times WAF) \times \{BR/BW\} \times A \times EF \times 10^{-6}$

1. Dose-air = Dose through inhalation (mg/kg/d)
2. C_{air} = Annual average concentration in air ($\mu g/m^3$)
3. WAF = Worker air concentration adjustment factor (unitless)
4. {BR/BW} = Eight-hour breathing rate normalized to body weight (L/kg body weight - day)
5. A = Inhalation absorption factor (unitless)
6. EF = Exposure frequency (unitless), days/365 days)
7. 10^{-6} = Micrograms to milligrams conversion, Liters to cubic meters conversion

a: Recommended default values for EQ 5.4.1.2 A:

1. WAF = See EQ. 5.4.1.2 B for formula to calculate WAF, or App. M for refined post-processing modeling to calculate WAF.
2. {BR/BW} = For workers, use age16-70 year, 95th percentile, moderate intensity 8-hour point estimate breathing rates (see Table 5.8). No worker breathing rate distributions exist for stochastic risk assessment.
3. A = 1
4. EF = 0.68 (250 days / 365 days). Equivalent to working 5 days/week, 50 weeks/year.

b: Assumption for EQ 5.4.1.2 A:

1. The fraction of chemical absorbed (A) through the lungs is the same fraction absorbed in the study on which the cancer potency factor is based.
2. The source emits during the daylight hours. Calculate WAF (EQ 5.4.1.2 B) if a special post-processing modeling run described in App. M was not completed. For nighttime emissions and exposure scenarios, see Appendix N.

B. Equation 5.4.1.2 B: $WAF = (H_{res} / H_{source}) \times (D_{res} / D_{source}) \times DF$

1. WAF = Worker adjustment factor (unitless)
2. H_{res} = Number of hours per day the annual average residential air concentration is based on (always 24 hours)
3. H_{source} = Number of hours the source operates per day
4. D_{res} = Number of days per week the annual average residential air concentration is based on (always 7 days)
5. D_{source} = Number of days the emitting source operates per week
6. DF = Discount factor, for when the offsite worker's schedule partially overlaps the source's emission schedule

b: Recommended default values for EQ 5.4.1.2 B:

1. DF = 1 for offsite worker's schedule occurring within the source's emission schedule. A site-specific survey may be used to adjust the DF using EQ 5.4.1.2 C.

C. Equation 5.4.1.2 C: $DF = (H_{coincident} / H_{worker}) \times (D_{coincident} / D_{worker})$

1. $H_{coincident}$ = Number of hours per day the offsite worker's schedule and the source's emission schedule coincide
2. H_{worker} = Number of hours the offsite worker works per day
3. $D_{coincident}$ = Number of days per week the offsite worker's schedule and the source's emission schedule coincide
4. D_{worker} = Number of days the offsite worker works per week

B. Equation 8.2.4 B: $RISK_{inh\text{-}work} = DOSE_{air} \times CPF \times ASF \times ED/AT$

1. $RISK_{inh\text{-}work}$ = Worker inhalation cancer risk

a: Recommended default values for EQ 8.2.4 B:

1. $DOSE_{air}$ = Calculated for workers in Eq. 5.4.1.2
2. CPF = Substance specific (see Table 7.1)
3. ASF = 1 for working age 16-70 yrs (See Section 8.2.1)
4. ED = 25 years
5. AT = 70 yrs for lifetime cancer risk

Appendix C
HRA Model and Output Files
(provided digitally)

Appendix C1
Northern San Joaquin 230 kV Transmission Project Rare Plant Report

Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Rare Plant Report

Final

August 2023

Pacific Gas and Electric Company

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors



Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Project No:	D31321DL.A.CS.EV.TM.09
Document Title:	Rare Plant Report
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Project Manager:	Colleen Taylor
Author:	Kyle Brown
File Name:	AppC1_Rare Plant Survey Report

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

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Acronyms and Abbreviations

BSA	Biological Study Area
CCV	Central California Valley
CDFW	California Department of Fish and Wildlife
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
kV	kilovolt
LEU	Lodi Electric Utility
NRCS	Natural Resources Conservation Service
PG&E	Pacific Gas and Electric Company
SR	State Route
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

1. Introduction

Pacific Gas and Electric Company (PG&E) proposes the Northern San Joaquin 230 kilovolt (kV) Transmission Project (project) to provide a new 230 kV transmission system in northern San Joaquin County in central California. The purpose of the project is to increase electric reliability and accommodate forecasted load growth to electrical customers in northern San Joaquin County.

This report presents the results of targeted rare plant surveys conducted for the project in spring and summer 2021, and a follow-up rare plant habitat assessment of new proposed work areas in summer 2022. A brief project overview, the project location, environmental setting, and survey methods and results are provided in the following sections.

The project includes activities by PG&E and the City of Lodi's Electric Utility (Lodi Electrical Utility or LEU). This project description summary includes PG&E's portion of the project and LEU's portion of the project. This report references PG&E's portion of the project or LEU's portion of the project in select sections. Refer to PG&E's project Proponent's Environmental Assessment for potential impact discussion by utility.

1.1 Project Overview

The project will loop in PG&E's existing overhead Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation and install a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and a new switching station (PG&E Thurman Switching Station) at Lodi Electric Utility (LEU) Fred M. Reid Industrial Substation (LEU Industrial Substation) in Lodi, California. LEU will construct LEU Guild Substation, a new 230/60 kV substation, between its Industrial Substation and the new PG&E Thurman Switching Station. At LEU Guild Substation, the new 230 kV transmission line will terminate, and transformers will step down the power to 60 kV and connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured, including disconnecting from LEU's 60 kV system at LEU Industrial Substation. The 60 kV lines will be removed or reconfigured within their existing alignments.

PG&E will perform project-related work at four remote-end substations (Brighton, Bellota, Rio Oso, and Lodi), which are located in Folsom, Linden, Rio Oso, and Lodi, respectively, to update the system protection scheme.

The proposed project includes new or modified aboveground substations; switching station; microwave towers; Federal Communications Commission towers; and transmission, power, distribution/feeder, and telecommunication (optical ground and shield wires) lines. Belowground facilities or portions thereof include new and modified foundations, grounding grids, new and relocated 12 kV feeder lines, and telecommunication circuits at stations. Project activities will occur within new and existing right-of-way, along new proposed and existing access roads, and on PG&E property. Construction work areas and access roads will occur within existing, modified, or new rights-of-way with some adjacent or nearby temporary construction work areas and access.

1.2 Project Location

The proposed project is within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi. Work will be conducted from approximately 4 miles east of the PG&E Lockeford Substation westward to LEU Industrial Substation (Figure 1). Major geographic features in the project vicinity include the Mokelumne River, Bear Creek, State Route (SR) 99, SR 88, and SR 12.

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A biological study area (BSA) for the project was established as a 250-foot-wide corridor centered on the proposed transmission line and all potential work areas (including new proposed structure locations, staging areas, and new proposed substations) and a 50-foot-wide buffer around proposed access roads (Figure 2). Given the flat topography of adjacent areas, adequate access to the project using existing and short overland roads, similar land cover types in adjacent areas, and constrained access because of surrounding private property along the project's right-of-way, this BSA was determined to be appropriate to cover all potential direct and indirect effects. The BSA encompasses approximately 387 acres.

2. Existing Conditions

2.1 Environmental Setting

Beginning in 1992, the U.S. Forest Service has worked to develop a consistent approach to ecosystem classification and mapping at multiple geographic scales. The goal is to develop a stratification system for progressively smaller areas of increasingly uniform ecological potentials based on climate, physiography, water, soils, air, hydrology, and potential natural communities. The largest change in any one land cover class between 1973 and 2000 in the Central California Valley (CCV) ecoregion was the loss and conversion of 1,782 square kilometers of grassland and shrubland to developed land cover area (USGS 2012). This shift, starting in 1973 to approximately 1992, accounted for a large percentage of habitat loss for special-status plants in the project vicinity and further declining habitat suitability in the CCV ecoregion.

The CCV ecoregion consists of flat, intensively farmed plains with long, hot, dry summers and mild winters. The CCV ecoregion includes the flat valley basins of deep sediments adjacent to the Sacramento and San Joaquin Rivers, as well as the fans and terraces around the edge of the valley. The two major rivers flow from opposite ends of the CCV, entering into the Sacramento-San Joaquin River Delta and San Pablo Bay. This region once contained extensive prairies, oak savannas, desert grasslands in the south, riparian woodlands, freshwater marshes, and vernal pools. More than half of the region is now in cropland, about three-quarters of which is irrigated. At the next lower level in the classification hierarchy, the project is located within the Lodi Alluvium subregion. This project is located within the Great Valley Section of the California Dry Steppe Province. The project is within the Hardpan Terraces and Sodic Claypan Terraces subsections (Miles and Goudey 1997).

Geomorphology within the Hardpan Terraces subsection is described as very gently to gently sloping terraces and small areas of floodplain and alluvial fans along streams that cross from mountains to reach the Sacramento and San Joaquin Rivers. The Sodic Claypan Terraces are described as nearly level to gently sloping late Pleistocene and recent alluvial fans from the southern end of the northern California Coast Ranges. Alluvium within these subsections is formed from volcanic, granitic, sedimentary, and metamorphic rock sources. Fluvial erosion and deposition are the main geomorphic processes within the region (Miles and Goudey 1997).

The regional topography generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project.

Figure 3 presents California Natural Diversity Database (CNDDB) occurrences for special-status plant species within 5 miles of the project and is discussed further in the Methods and Results sections that follow.

2.1.1 Soils

Soils information for the BSA was obtained from the Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2022a) as well as the Official Soil Series Descriptions (NRCS 2022b). Figure 4 presents the soil types within the BSA and Table 1 presents additional information about the mapped soil series.

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Table 1. Mapped Soil Series within the BSA and Vicinity

Type / Series	Texture	Landscape Position and Parent Material	Drainage and Permeability	Hydric Soil?
Acampo	Sandy loam	Acampo soils are on low fan terraces. The soils formed in alluvium derived from granite.	Moderately well drained; slow runoff; moderately rapid permeability	No
Archerdale	Very fine sandy loam	Archerdale soils are on low fan terraces and alluvial fans. The soils formed in alluvium from mixed rock sources.	Well drained; slow runoff; slow permeability	No
Bruella	Sandy loam	Bruella soils are on low terraces and fans. They formed in alluvium derived mainly from granitic rock sources.	Well and moderately well drained; slow runoff; moderately slow permeability (hard substratum phase has slow permeability below a depth of 40 inches); some areas are subject to rare flooding	No
Cometa	Sandy loam	Cometa soils are on gently sloping and undulating, slightly dissected older stream terraces. The soils formed in alluvium from granitic rock sources.	Moderately well or well drained; slow to medium runoff; very slow permeability	No
Kingdon	Fine sandy loam	Kingdon soils are on low fan terraces. The soils formed in alluvium derived mainly from granitic rock sources.	Moderately well drained; slow runoff; moderate permeability	No
Montpellier-Cometa Complex	Coarse sandy loam	Montpellier-Cometa complex soils are on fan remnants. The soils formed from alluvium derived from granitic rock.	Well drained; high runoff	No
Rocklin	Sandy loam/ Fine sandy loam	Rocklin soils are on nearly level to rolling dissected terraces of fan remnants. The soils formed in old alluvium from granitic rock sources.	Well drained; very slow to medium runoff; moderate permeability above cemented material but very slow to slow below	No
San Joaquin	Sandy loam/ Loam	San Joaquin soils are on hummocky, nearly level to undulating terraces. They formed in alluvium from mixed but mainly granitic rock sources.	Well and moderately well drained; medium to very high runoff; very slow permeability; some areas are subject to rare or occasional flooding	No
Tokay and Tokay-Urban Land Complex	Fine sandy loam	Tokay soils are on low fan terraces. The soils formed in alluvium derived mainly from granitic rock sources.	Well drained; slow runoff; moderately rapid permeability	No
Tujunga	Loamy sand	Tujunga soils are on alluvial fans and floodplains. The soils formed in alluvium weathered from granitic sources or similar.	Somewhat excessively drained; negligible to low runoff; high saturated hydraulic conductivity; flooding is none to frequent	No

Source:
Web Soil Survey 2.0 National Cooperative Soil Survey (NRCS 2022a)

2.1.2 Climate

The regional climate is characterized by cool, wet winters and hot, dry summers. The average annual rainfall is approximately 17 inches, with most of the precipitation occurring between November and March. Average monthly temperatures range from a low of 46 degrees Fahrenheit (^{o}F) in January to a high of 74°F in July (Western Regional Climate Center 2022).

2.1.3 Vegetation and Land Cover Types

The majority of upland habitat observed throughout the BSA is either hardscaped (pavement and sidewalks) or otherwise developed/landscaped, agriculture, or is disturbed habitat consisting of primarily ruderal or non-native species. Representative vegetation alliances from the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009) are referenced and discussed in the following sections and shown on Figure 5.

2.1.3.1 Tree Cover

Tree cover is not included in the following description sections because this land cover type does not correlate with representative vegetation alliances from the *Manual of California Vegetation, Second Edition*. However, this land cover type is included in Figure 5, pages 3 and 7. Tree cover, where mapped, includes planted, ornamental, or landscaped overstory trees that are not associated with agricultural land cover types. There is potential that trees will need to be trimmed or removed to facilitate the project. Locations of these trees are shown on Figure 2 (pages 2, 3, 5, 6, 9, 10, 11, 13, 14, and 17).

2.1.3.2 Wetlands

Eight depressional seasonal wetlands were delineated within the BSA. Vegetation within the wetlands consisted of seaside barley (*Hordeum marinum*), sparse popcornflower (*Plagiobothrys* sp.), annual hairgrass (*Deschampsia danthonioides*), spikerush (*Eleocharis* sp.), and tall flatsedge (*Cyperus eragrostis*).

2.1.3.3 Other Waters

Other waters within the BSA include natural watercourses such as Bear Creek and Paddy Creek, constructed watercourses, and drainage and irrigation ditches. Where emergent vegetation exists, the predominant natural plant communities are *Schoenoplectus* (*acutus*, *californicus*) Herbaceous Alliance (hardstem and California bulrush marshes), *Juncus* (*oxymeris, xiphioides*) Provisional Herbaceous Alliance (irisleaf rush seeps), and *Lolium perenne* Herbaceous Semi-Natural Alliance (perennial rye grass fields). Vegetation within the creeks and along the creek banks is variable, but predominantly includes species such as bulrush (*Schoenoplectus* ssp.), perennial ryegrass (*Festuca perennis* [*Lolium perenne*]), irisleaf rush (*Juncus xiphioides*), and curly dock (*Rumex crispus*).

2.1.3.4 Riparian

Sparse riparian vegetation occurs along the banks of Bear Creek, Paddy Creek, and a realigned tributary to Paddy Creek, where these features bisect the proposed PG&E 230 kV transmission line. Figure 5 depicts riparian habitat associated with the riverine features within the BSA. In general, the riparian corridors within the BSA are narrow, confined by steep slopes, and sparsely vegetated. Riparian vegetation within the BSA consists mostly of non-native grasses, sparse willows (*Salix* ssp.) along Bear and Paddy Creek, and a few small, planted oaks (*Quercus agrifolia*) and black walnut trees (*Juglans* sp.), along the realigned tributary to Paddy Creek.

2.1.3.5 Grassland

Annual grasslands occur throughout the BSA, in pastures, along roadsides, and in other undeveloped, disturbed areas. Annual grassland can most readily be classified as annual brome grasslands, within the *Bromus* (*diandrus*, *hordeaceus*) – *Brachypodium distachyon* herbaceous semi-natural Alliance and *Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance and *Lolium perenne* (*Festuca perennis*) Herbaceous Semi-Natural Alliance (perennial rye grass fields). Where these alliances occur, rip-gut brome (*Bromus diandrus*), seaside barley, foxtail barley (*Hordeum murinum*), soft chess (*Bromus hordeaceus*), and perennial ryegrass are dominant or co-dominant with other non-natives such as black mustard (*Brassica nigra*), fennel (*Foeniculum vulgare*), and bristly ox-tongue (*Helminthotheca echioides*) in the herbaceous layer. Additionally, *Brassica nigra* – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance occurs within annual grasslands in low cover, most commonly near roadsides and other developed areas.

2.1.3.6 Agriculture

Agricultural monocultures of almond, cherry, and peach (*Prunus* spp.), as well as walnuts (*Juglans* spp.), vineyards, and corn (*Zea mays*), were dominant in the developed agricultural land throughout the BSA.

2.1.3.7 Ruderal

Ruderal habitat is common in highly disturbed areas, including along roadways, at the edges of hardscape development, and at other infrastructure areas such as levees and railroads. Ruderal habitat is characterized by a lack of vegetation or is dominated by non-native or invasive plant species such as Italian thistles (*Carduus* spp.), yellow starthistle (*Centaurea solstitialis*), black mustard, foxtail barley, filaree (*Erodium botrys*), perennial pepperweed (*Lepidium latifolium*), and stinkwort (*Dittrichia graveolens*), among others.

Brassica nigra – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance (upland mustards or star-thistle fields) also is prevalent around the ruderal margins of the concrete hardscapes along creek banks and levees.

2.1.3.8 Developed/Disturbed

Developed areas include existing paved roadways and parking lots; railroad areas; residential, commercial, and industrial development; and areas where vegetation is regularly cleared. These areas lack vegetation entirely or have only scattered weedy grasses and forbs. The developed area also includes a portion of the Lodi Memorial Park and Cemetery located northeast of the intersection of East Lodi Avenue and South Guild Avenue that consists of gravestones, mowed grass, and a large stand of trees.

3. Methods

3.1 Special-status Plant Species Criteria

A plant was considered to have a special status if it met at least one of the following criteria:

- Listed, proposed for listing, or a candidate for listing as threatened or endangered under the Federal Endangered Species Act
- Listed or a candidate for listing as rare, threatened, or endangered under the California Endangered Species Act
- Ranked by the California Native Plant Society (CNPS) as 1, 2, 3, or 4 in the current online version of its Inventory of Rare and Endangered Plants of California (CNPS 2023)

3.2 Database Searches

Prior to conducting field surveys, a list of potentially occurring special-status plant species was compiled by searching various databases, including the following:

- CNPS Online Inventory of Rare and Endangered Plants of California (CNPS 2023)
- California Department of Fish and Wildlife (CDFW) CNDDB (CDFW 2023)
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) System (USFWS 2023)

A CNDDB and CNPS search for special-status species typically includes nine U.S. Geological Survey (USGS) 7.5-minute quadrangle maps for a project located within a single quadrangle—the quadrangle that covers the project footprint, and the eight quadrangles that surround the project quadrangle. However, in this case, the project footprint spanned four quadrangles; therefore, the CNDDB and CNPS species lists were generated for additional quadrangles to account for all the areas surrounding the four project quadrangles, including Linden, Lockeford, Waterloo, Lodi North, Clay, Goose Creek, Clements, Wallace, Valley Springs SW, Farmington, Peters, Stockton East, Stockton West, Lodi South, Galt, Bruceville, Thornton, and Terminous. The CNDDB search was further refined to a 5-mile buffer around the project footprint. The USFWS IPaC species list was generated for the project BSA.

Special-status plant species identified during the database review were considered to have the potential to occur in the BSA if their known or expected geographic range includes the BSA, and if suitable habitat is present. The database searches identified a total of 39 special-status plants (Appendix A).

3.2.1 Potential for Occurrence

The potential for occurrence of special-status species within the BSA was assigned based on the following categories:

- *Present* – Reconnaissance-level, targeted, or protocol-level surveys documented the occurrence or observation of a species in the BSA.
- *Likely to occur* – The species has a strong likelihood to be found in the BSA prior to or during construction but has not been directly observed to date during project surveys. The likelihood that a species may occur is based on the following considerations: suitable habitat that meets the habitat requirements of the species is present on or near the BSA; and records of sighting are documented on or near the BSA. The main assumption is that records of occurrence have been documented within or

near the BSA, the BSA falls within the range of the species, suitable habitat is present, but it is undetermined whether the habitat is currently occupied.

- *Potential to occur* – There is a possibility that the species can be found in the BSA prior to or during construction, but it has not been directly observed to date. The likelihood that a species may occur is based on suitable habitat that meets the habitat requirements of the species, which is present on or near the BSA. The main assumption is that the BSA falls within the range of the species, suitable habitat is present, but no records of sighting are located within or near the BSA and it is undetermined whether the habitat is currently occupied.
- *Unlikely to occur* – The species is not likely to occur in the BSA based on the lack or low quality of suitable habitat and features that are required to satisfy the requirements of the species.
- *Absent* – Suitable habitat does not exist in the BSA; the species is restricted to or known to be present only within a specific area outside of the BSA.

3.3 Field Surveys

Early-season botanical field surveys were conducted by Applied Technology Services botanist and wetland scientist Russell Huddleston with Jacobs biologists Mia Marek, Kyle Brown, and Stephanie Owens on April 27 and 28 and May 11, 2021. Late-season botanical surveys were conducted by Mia Marek and Kyle Brown on June 15, 2021, and August 6, 2021. A follow-up botanical survey was conducted on August 11, 2022, by Mia Marek and Stephanie Owens to assess the BSA where it was expanded to encompass additional proposed work areas. Botanical surveys were conducted in accordance with standard protocols for surveying special-status plants (CDFW 2018; USFWS 2000). All vascular plant species encountered during the surveys were identified to the taxonomic level necessary to determine rarity. A list of the plant species observed in the BSA is provided in Table B-1 in Appendix B.

Protocol-level surveys were not conducted throughout the entire 250-foot BSA corridor. Surveys documented vegetation communities and habitat along the entire proposed alignment and at the locations where work may occur to assess the potential for special-status plants. Botanical surveys were conducted during the appropriate blooming seasons for all special-status plants that are not considered to be extinct by CNPS and that were considered to have at least some potential to occur in the BSA, and surveys were performed to protocol level in the portions of the BSA where there is suitable habitat for rare plants to occur. Representative site photographs are presented in Appendix C. If special-status plants were found, the locations were to be mapped in the field using a handheld Trimble Global Positioning System unit.

4. Results

4.1 Site Conditions at the Time of the Survey

The U.S. Army Corps of Engineers Antecedent Precipitation Tool (APT) was used to define precipitation conditions over the period preceding the 2021 delineation survey, and data were collected for a location at the approximate center of the project alignment. Regional precipitation in the months preceding the 2021 surveys was drier than normal based on the APT data, and the data, according to the Palmer Drought Severity Index, indicate “extreme drought” conditions. The drought conditions were not considered a survey limitation as botanical surveys were comprehensive and considered adequately representative of the flora throughout the BSA.

Paddy Creek was dry at the time of the delineation, and Bear Creek had only isolated areas of standing water, with no apparent flow. The drier-than-normal conditions observed are likely the result of the drought conditions during the time of the survey. Shallow surface water was observed in some constructed irrigation channels.

4.2 State and Federally Listed Rare, Threatened, or Endangered Plants

No state or federally listed or proposed rare, threatened, or endangered plants were found during the 2021 and 2022 botanical surveys.

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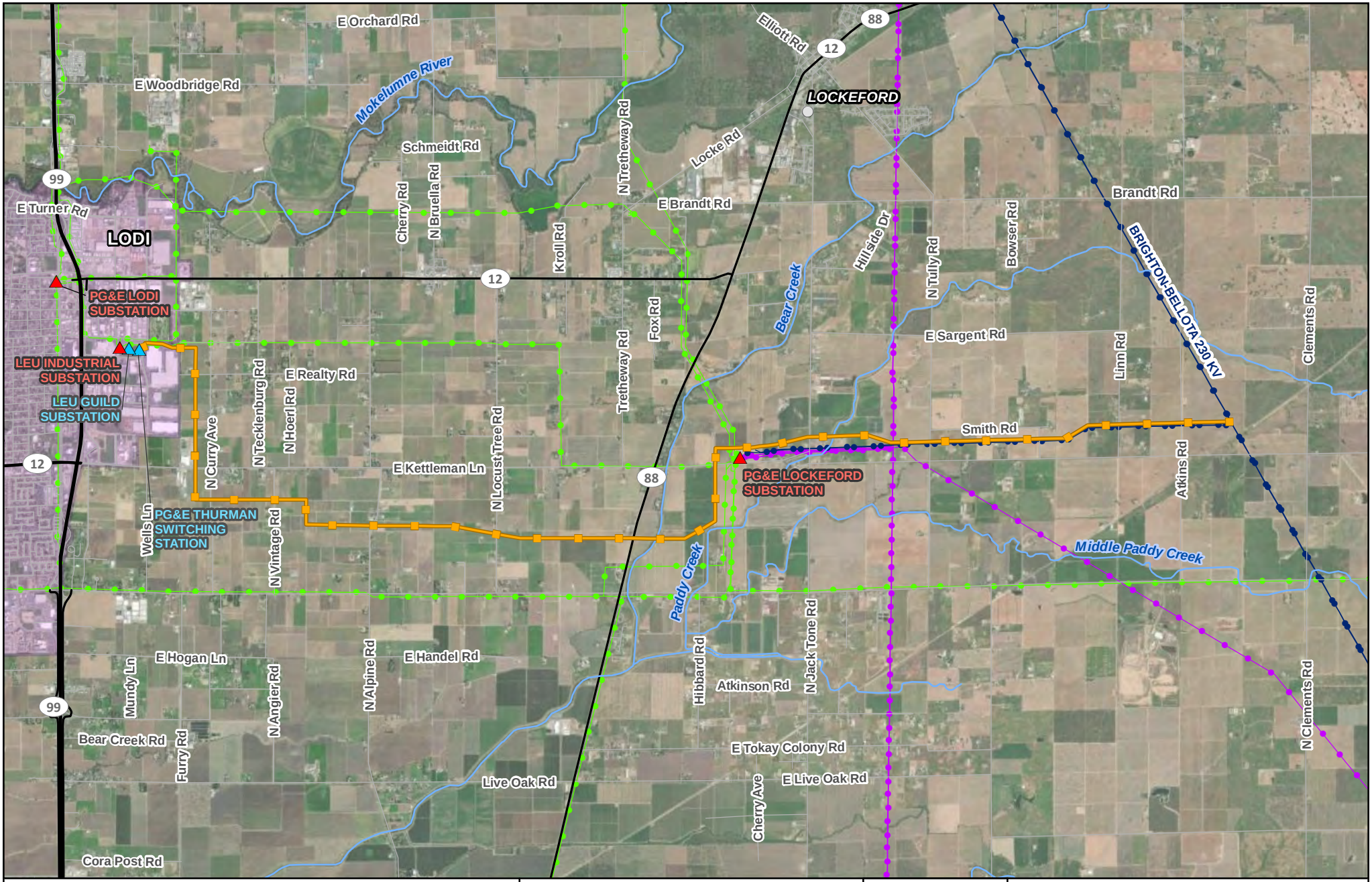
Figures

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors



Legend

- Existing Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line
- Existing PG&E 115 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary

Source:
1) Base Map Source: Esri World Imagery

0 0.5 1 Miles

N

Scale: 1:65,000

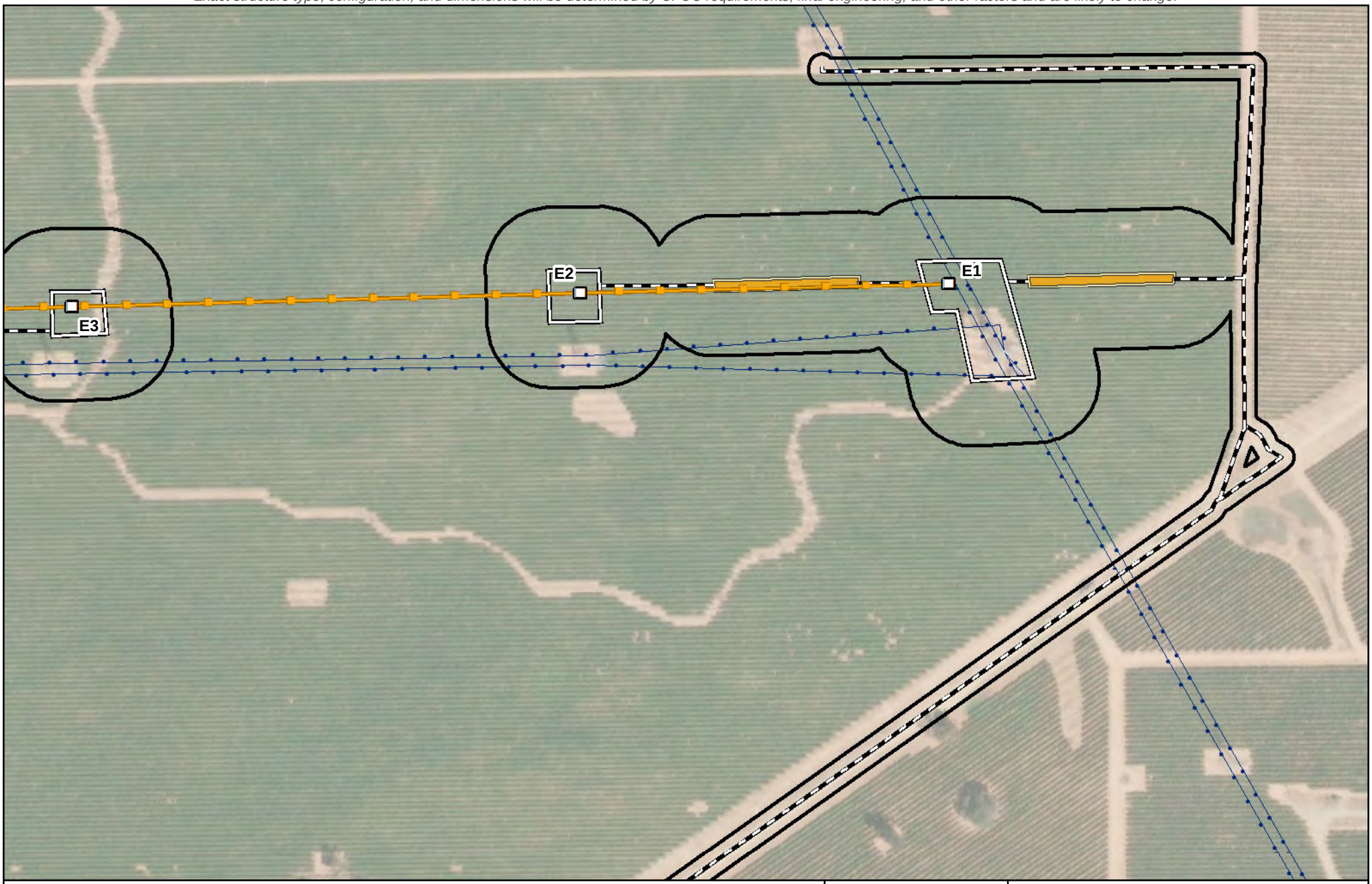


Figure 1
Project Location
Northern San Joaquin 230 kV Transmission Project

Jacobs

\\dc1vs01\GISProj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Rare_Plants\Figure_1_220920.mxd kgrant1 9/21/2022

Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

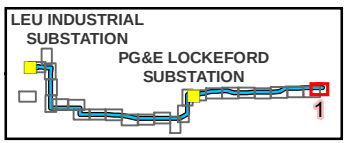


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FIGURE 2
Project Elements and Biological Study Area
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

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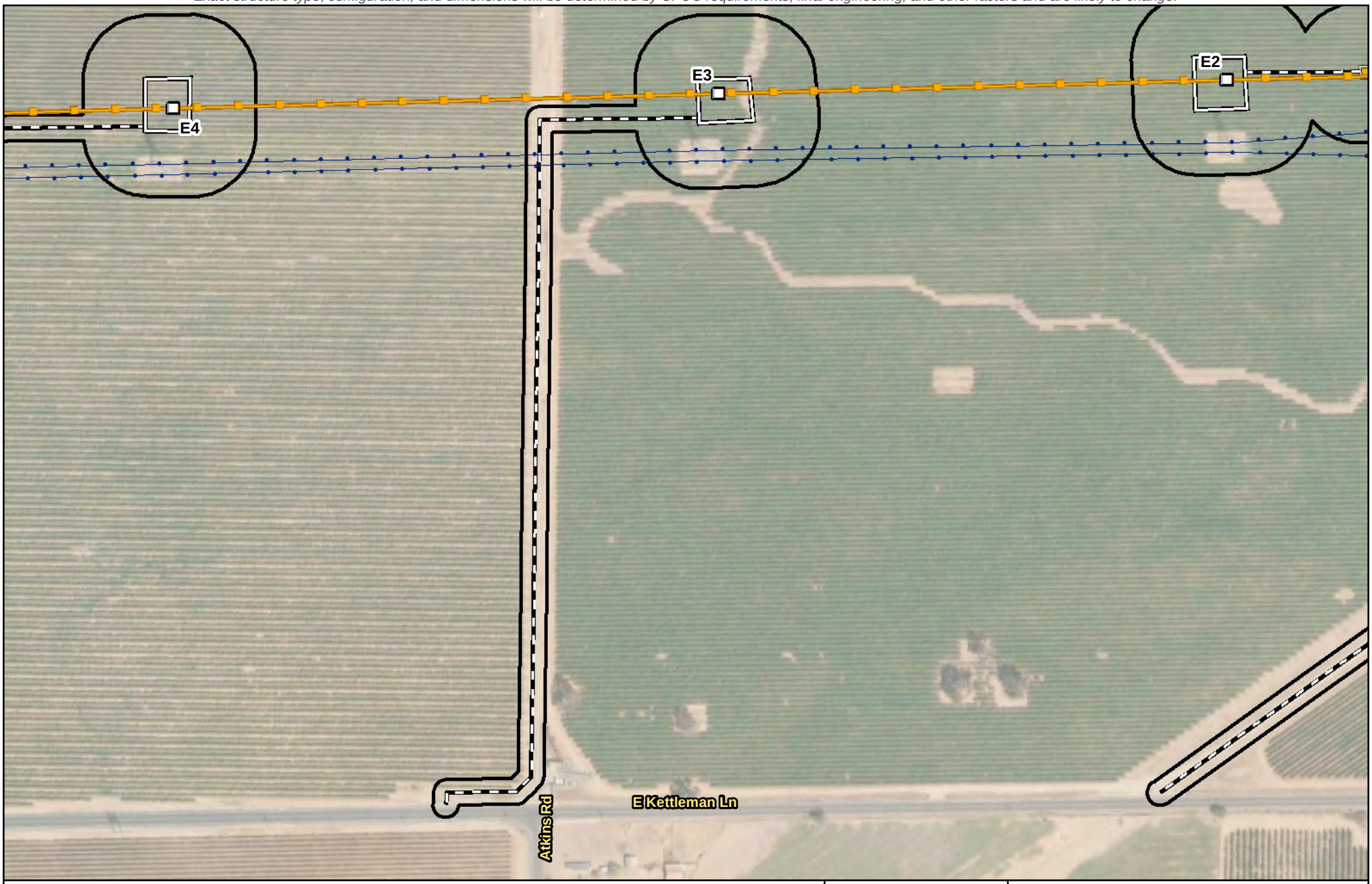

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
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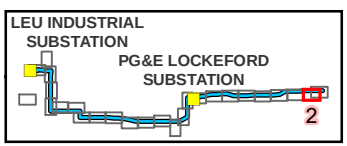

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Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

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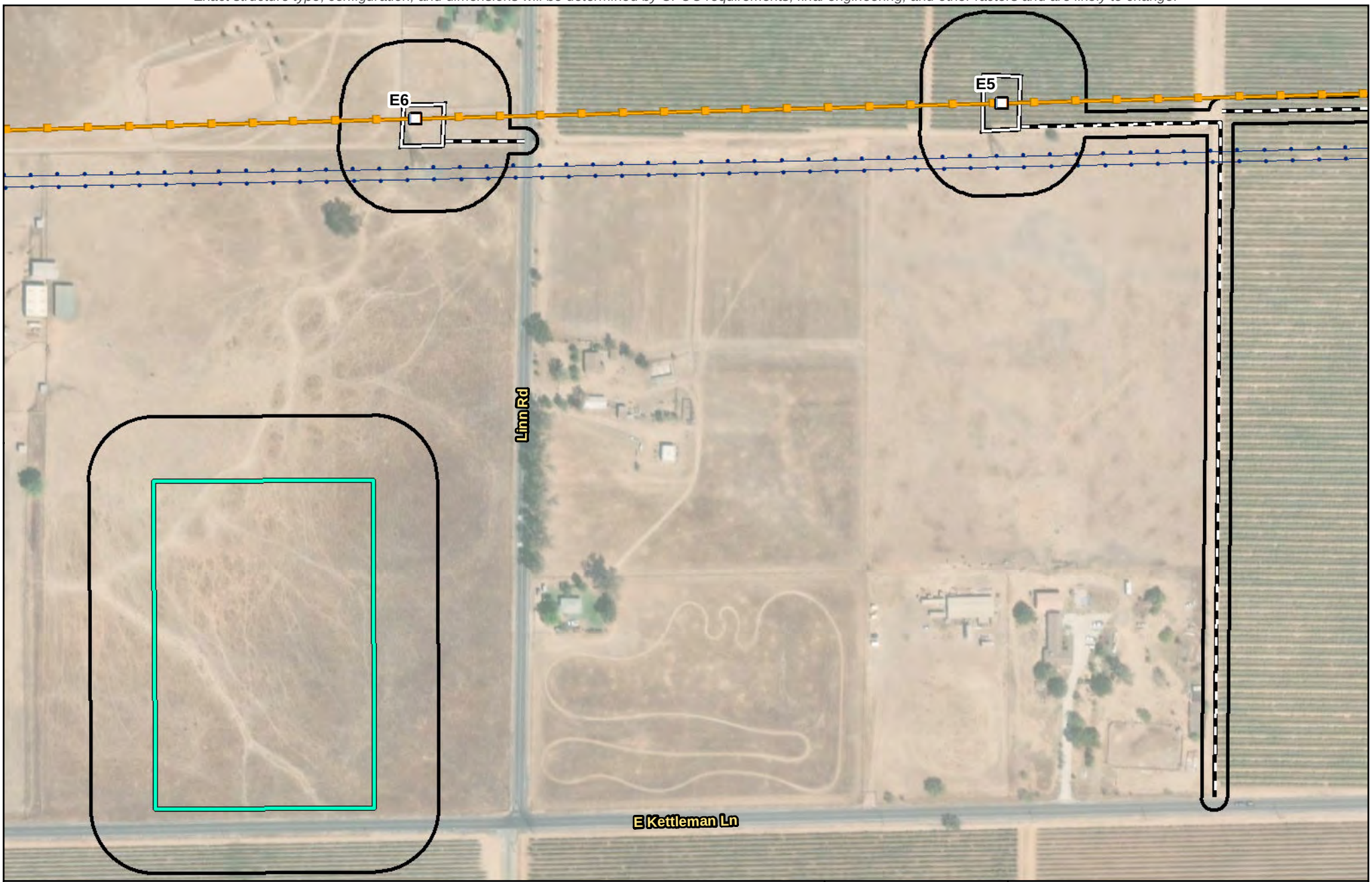

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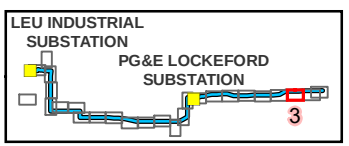

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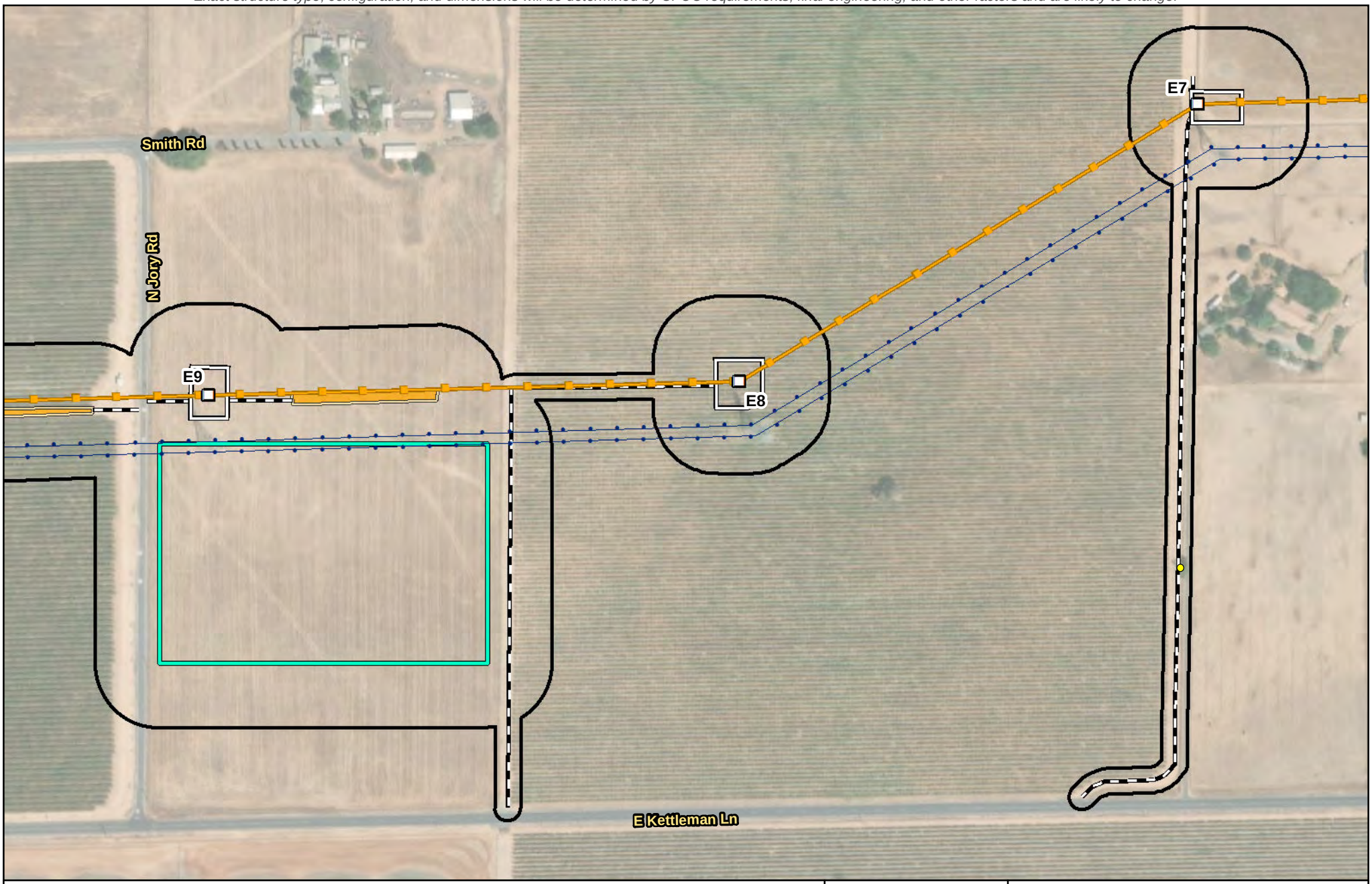

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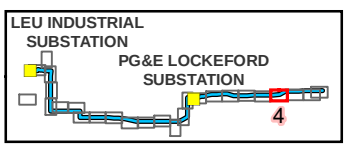

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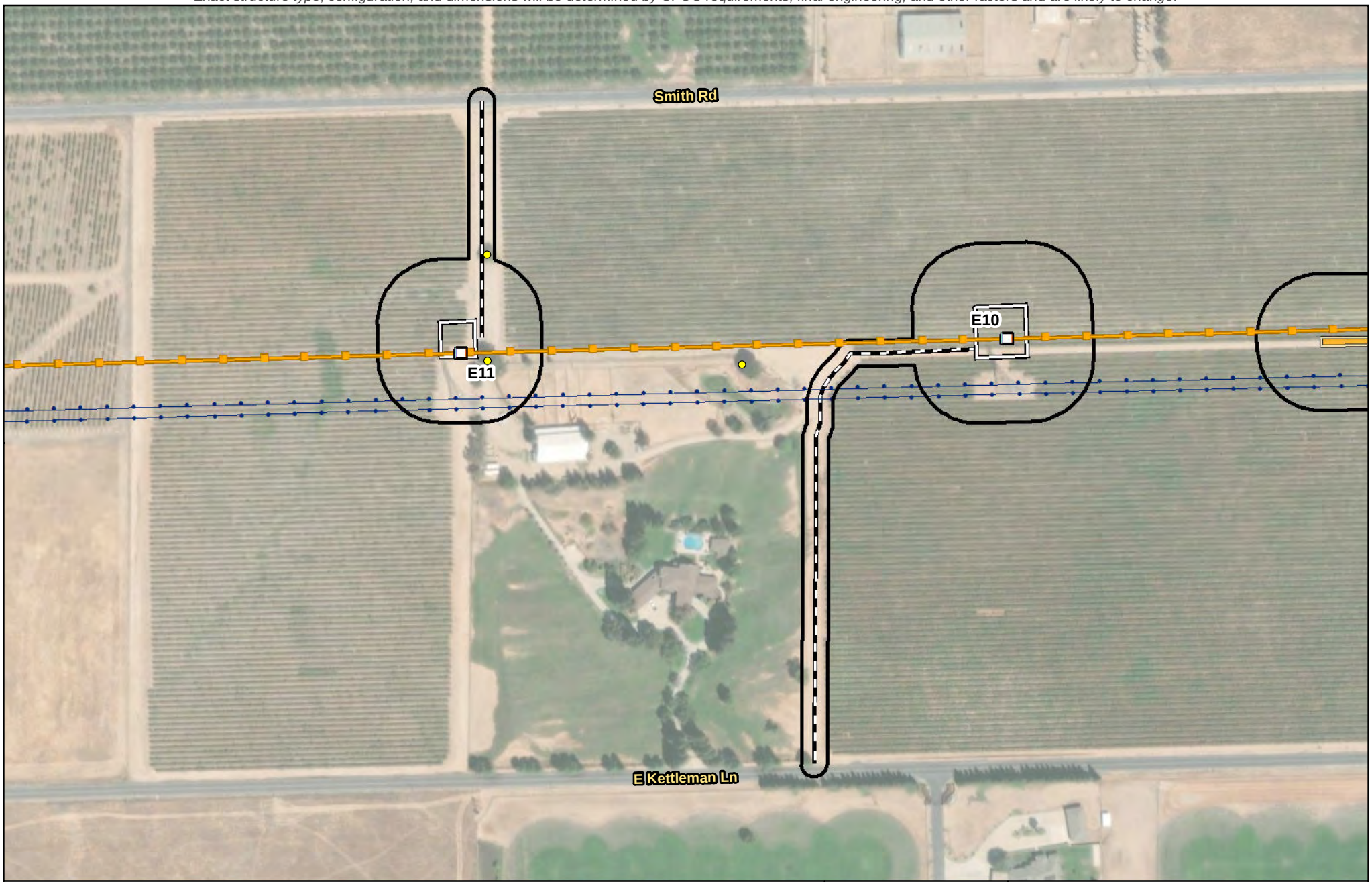

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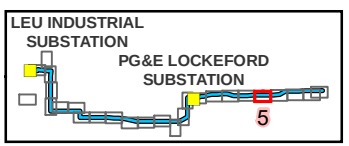

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FIGURE 2
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Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

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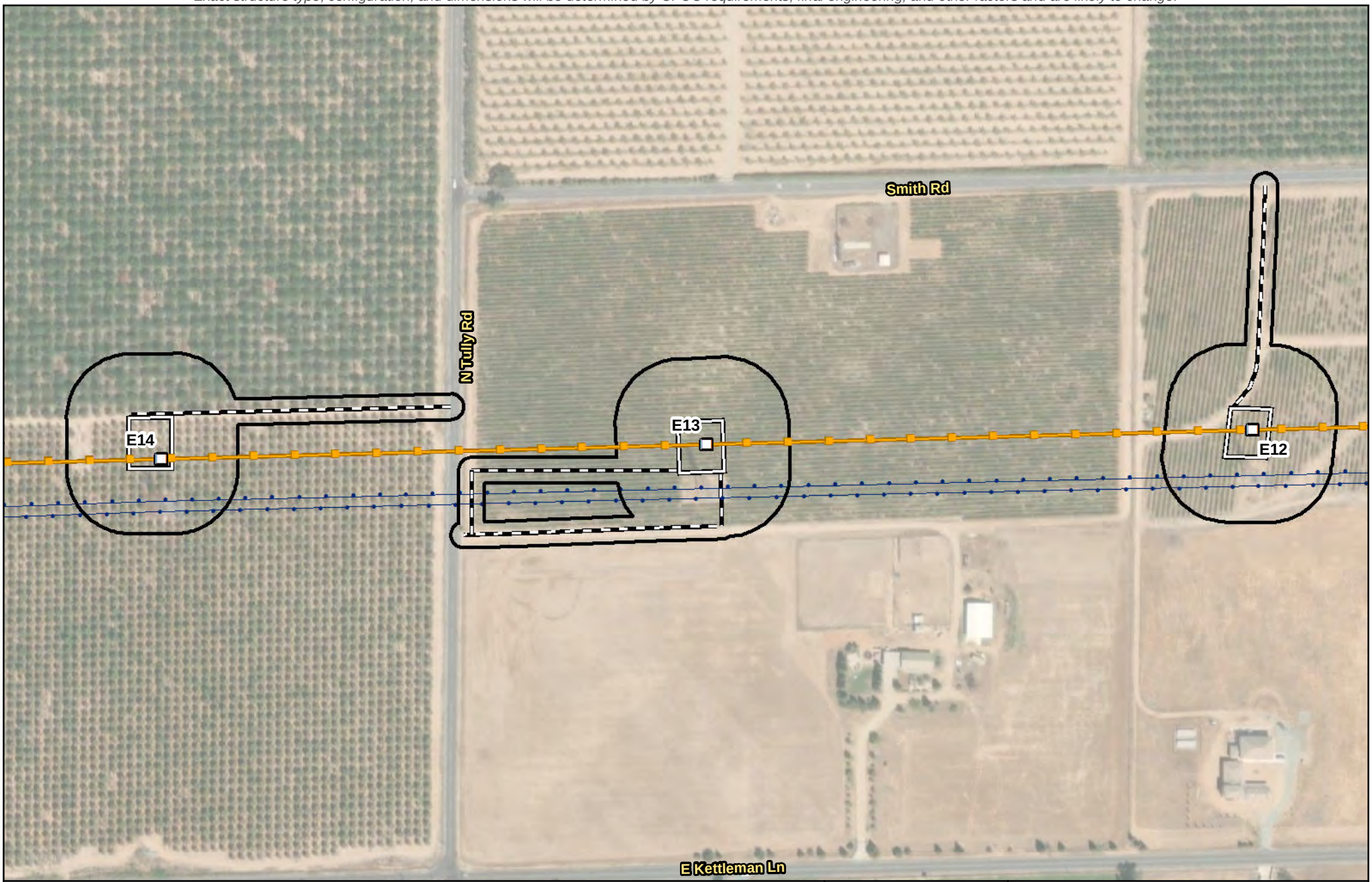

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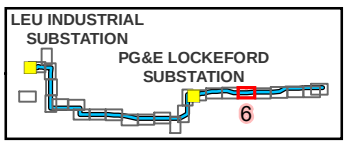

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FIGURE 2
Project Elements and Biological Study Area
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

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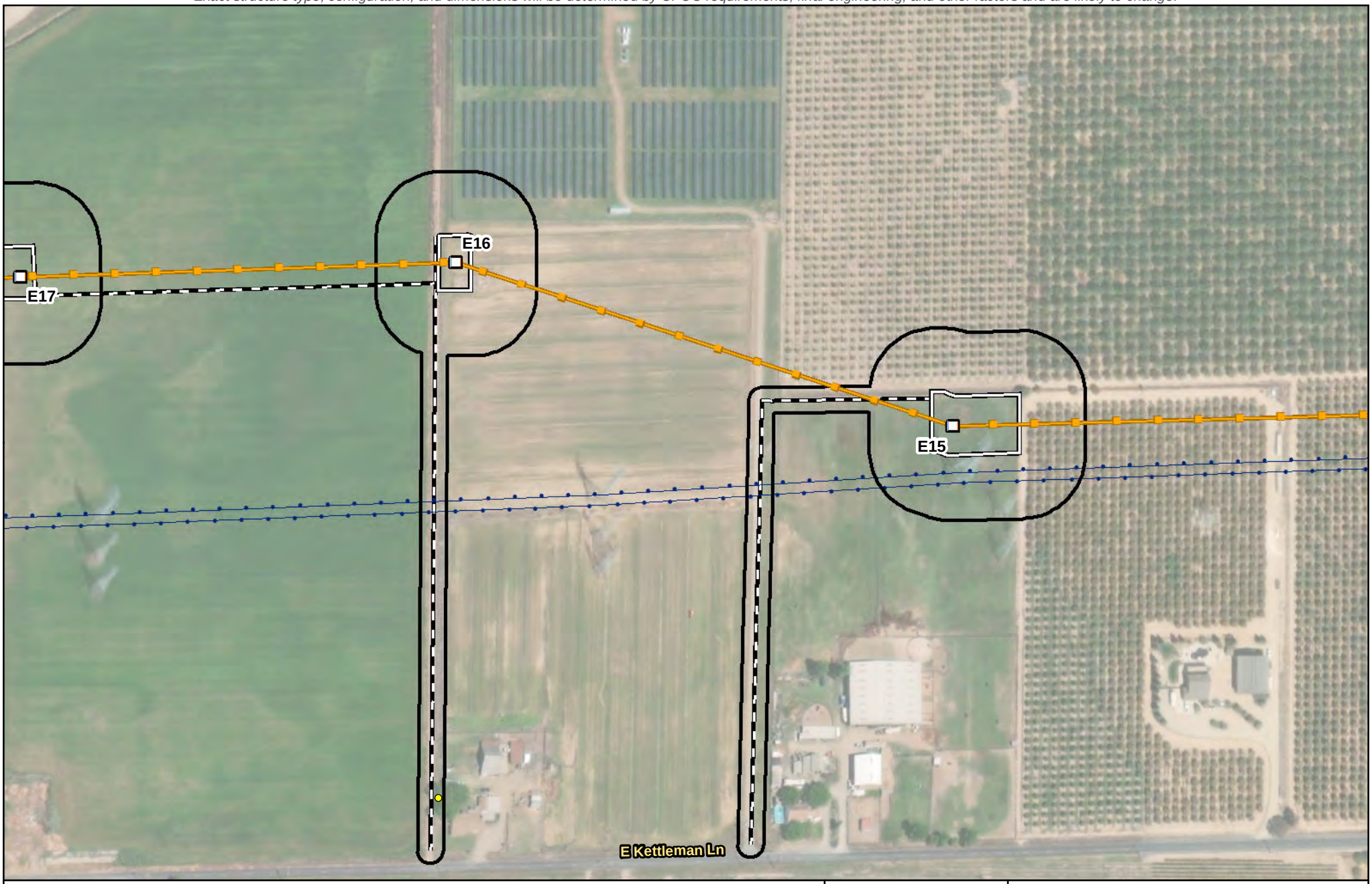

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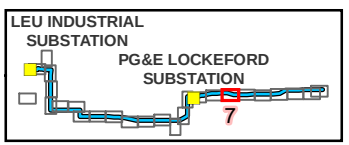

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FIGURE 2
Project Elements and Biological Study Area

Northern San Joaquin 230 kV Transmission Project

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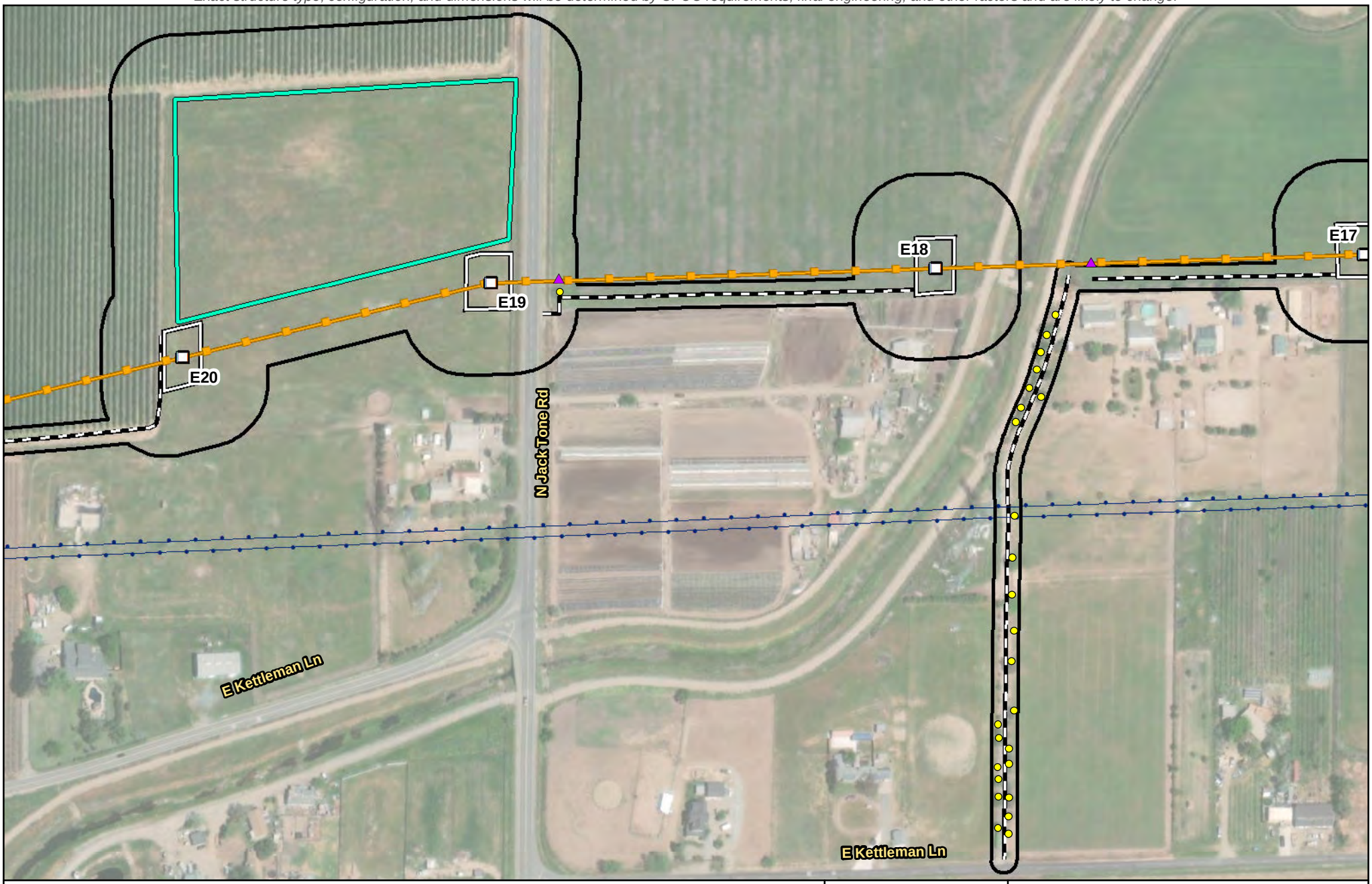

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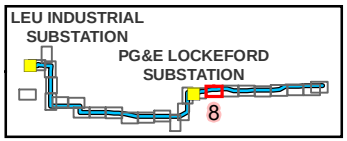

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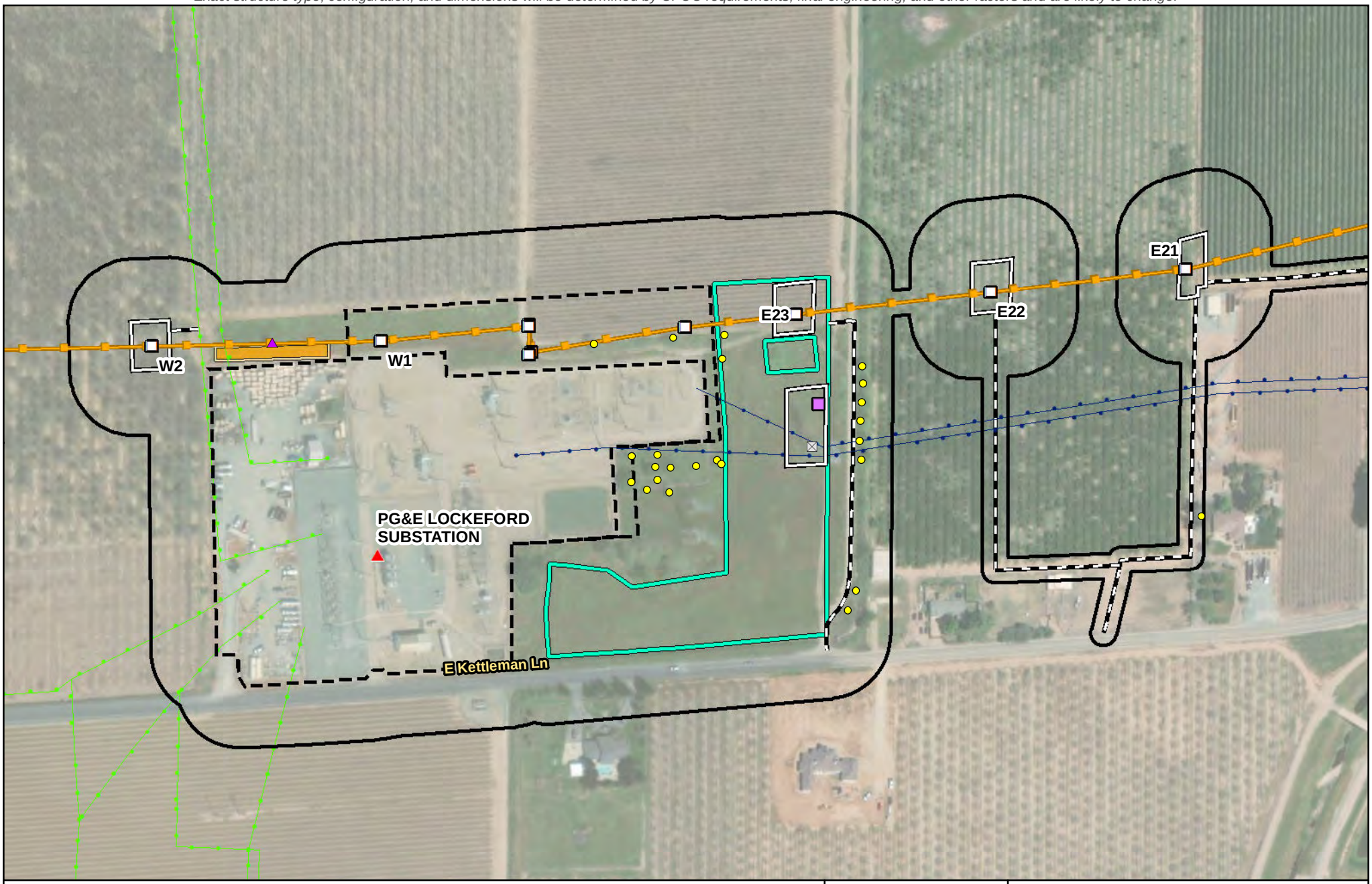

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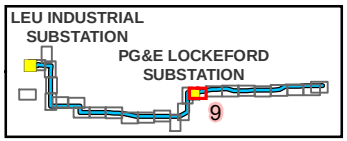

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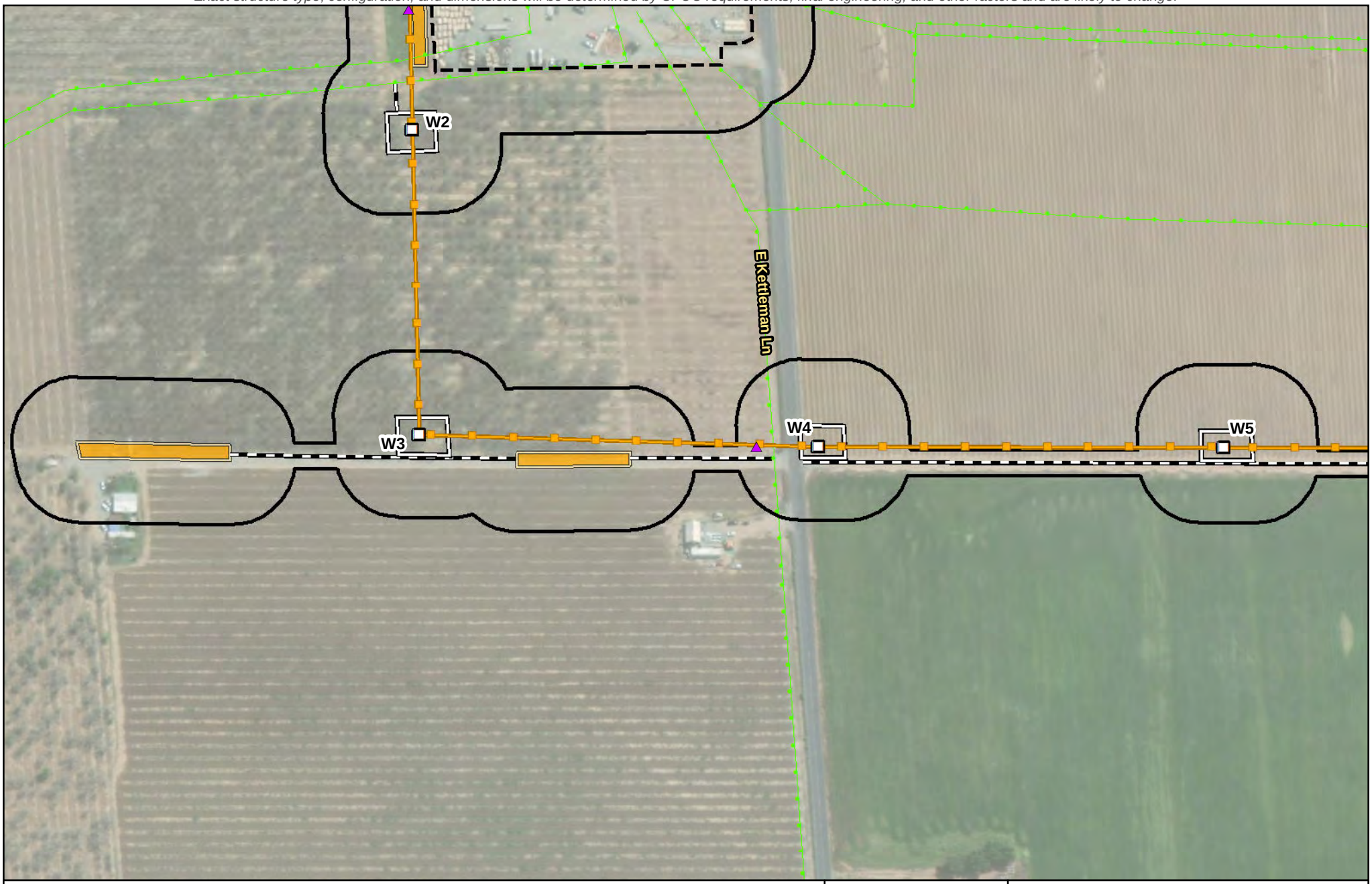

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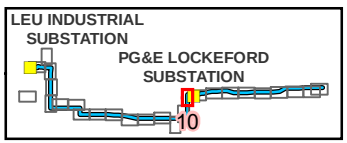

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Page 10 of 26
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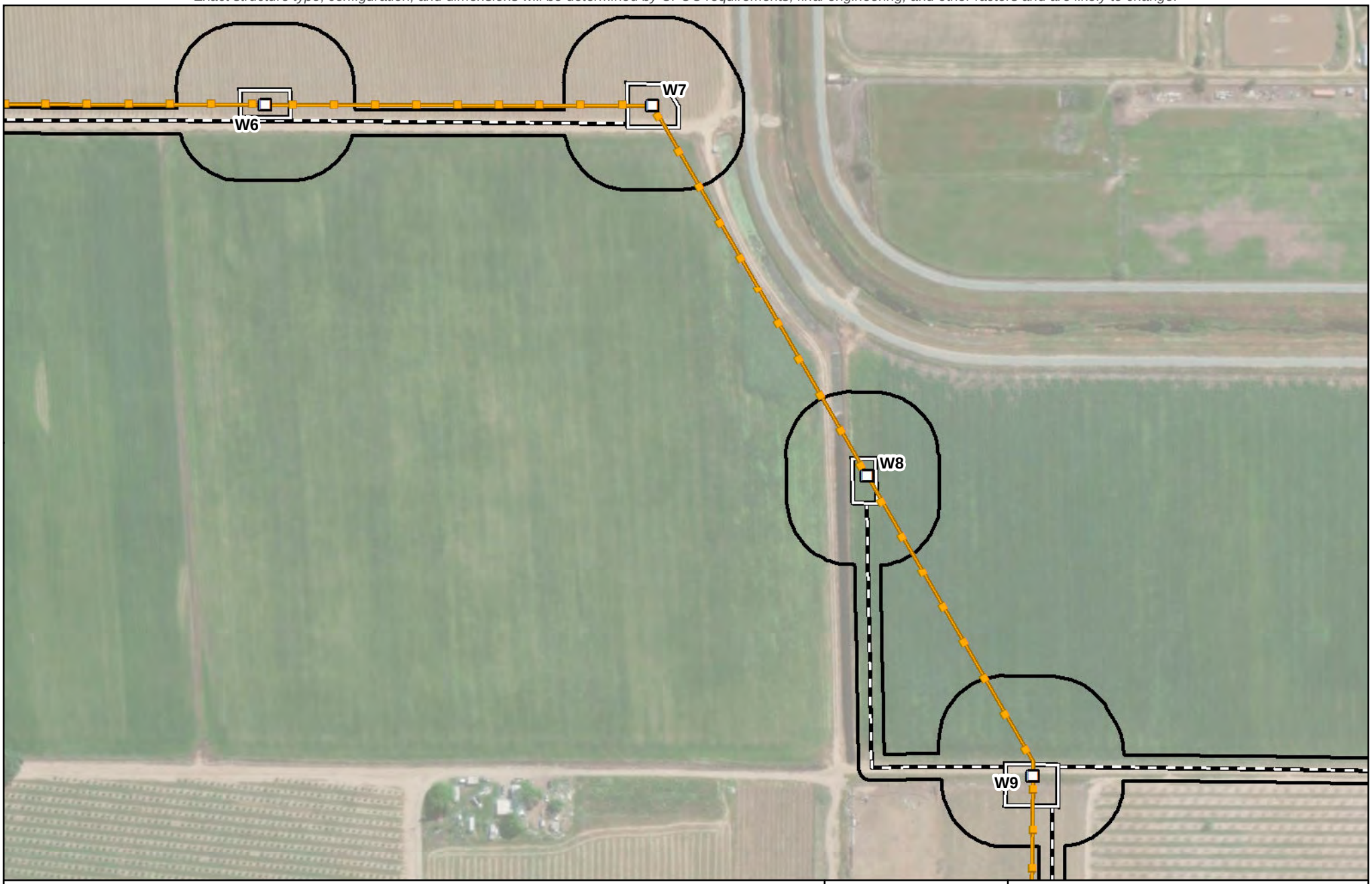

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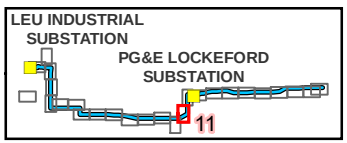

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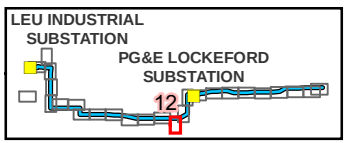

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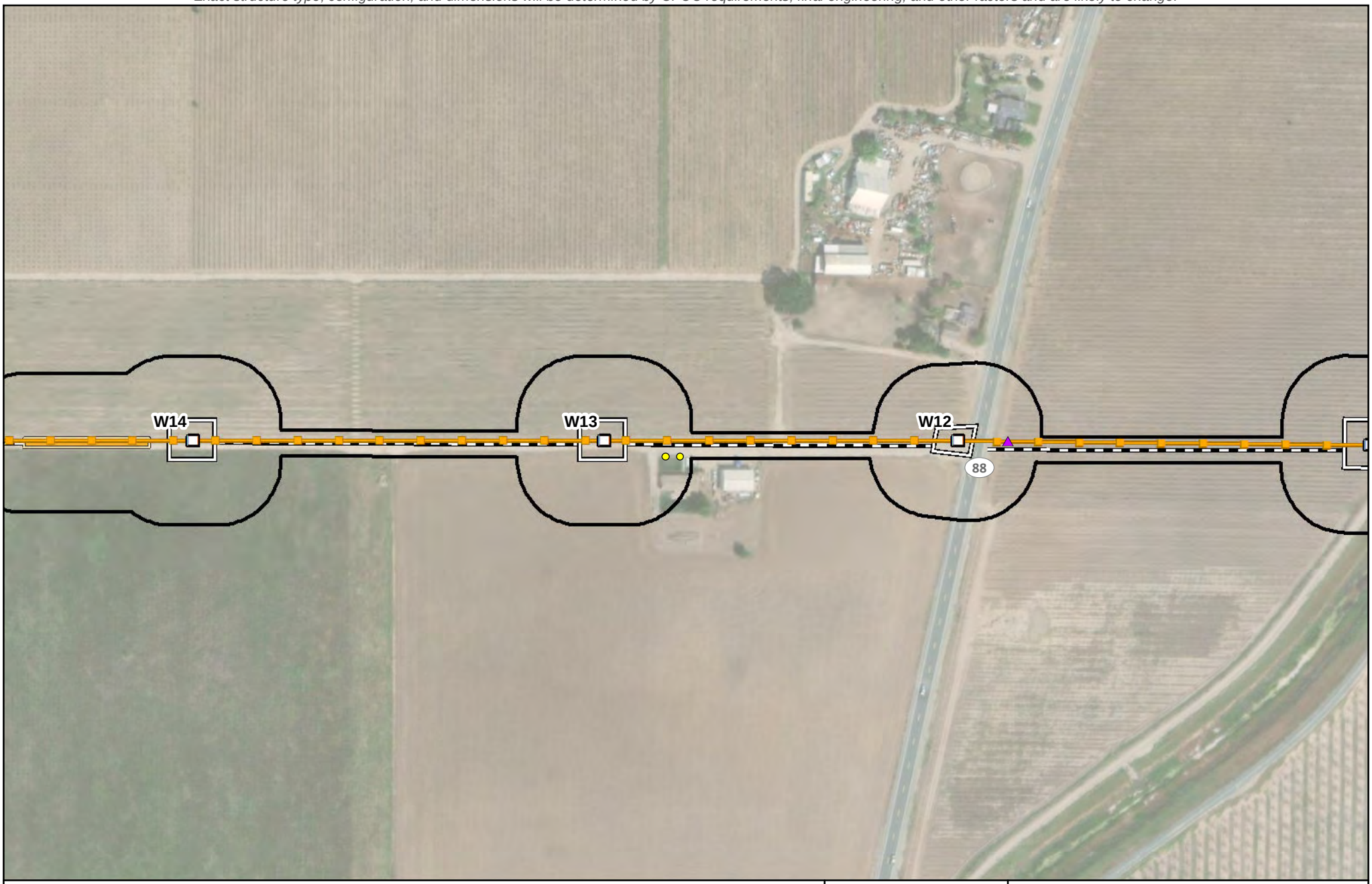

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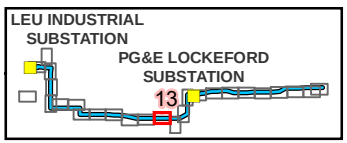

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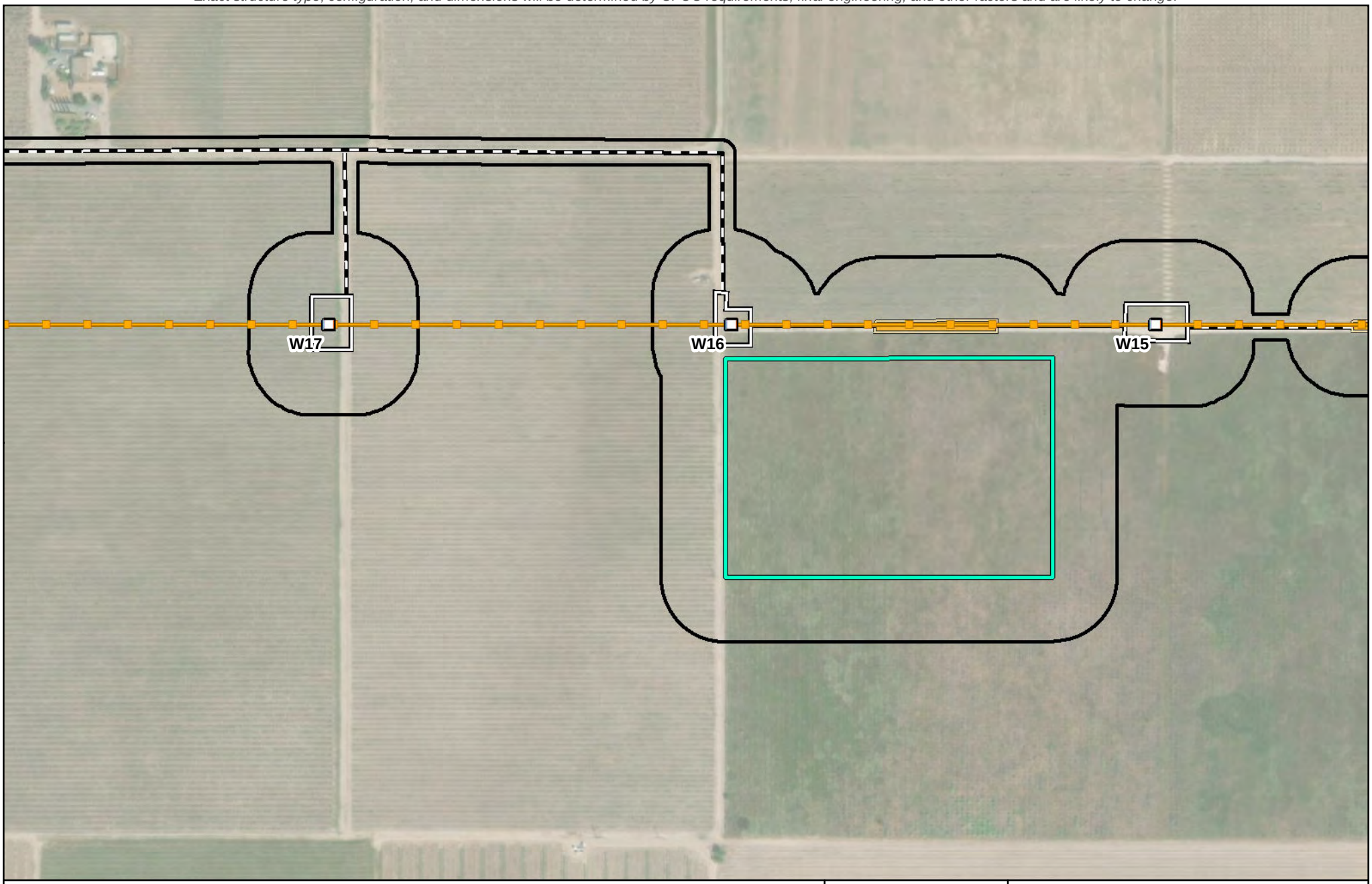

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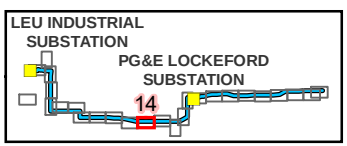

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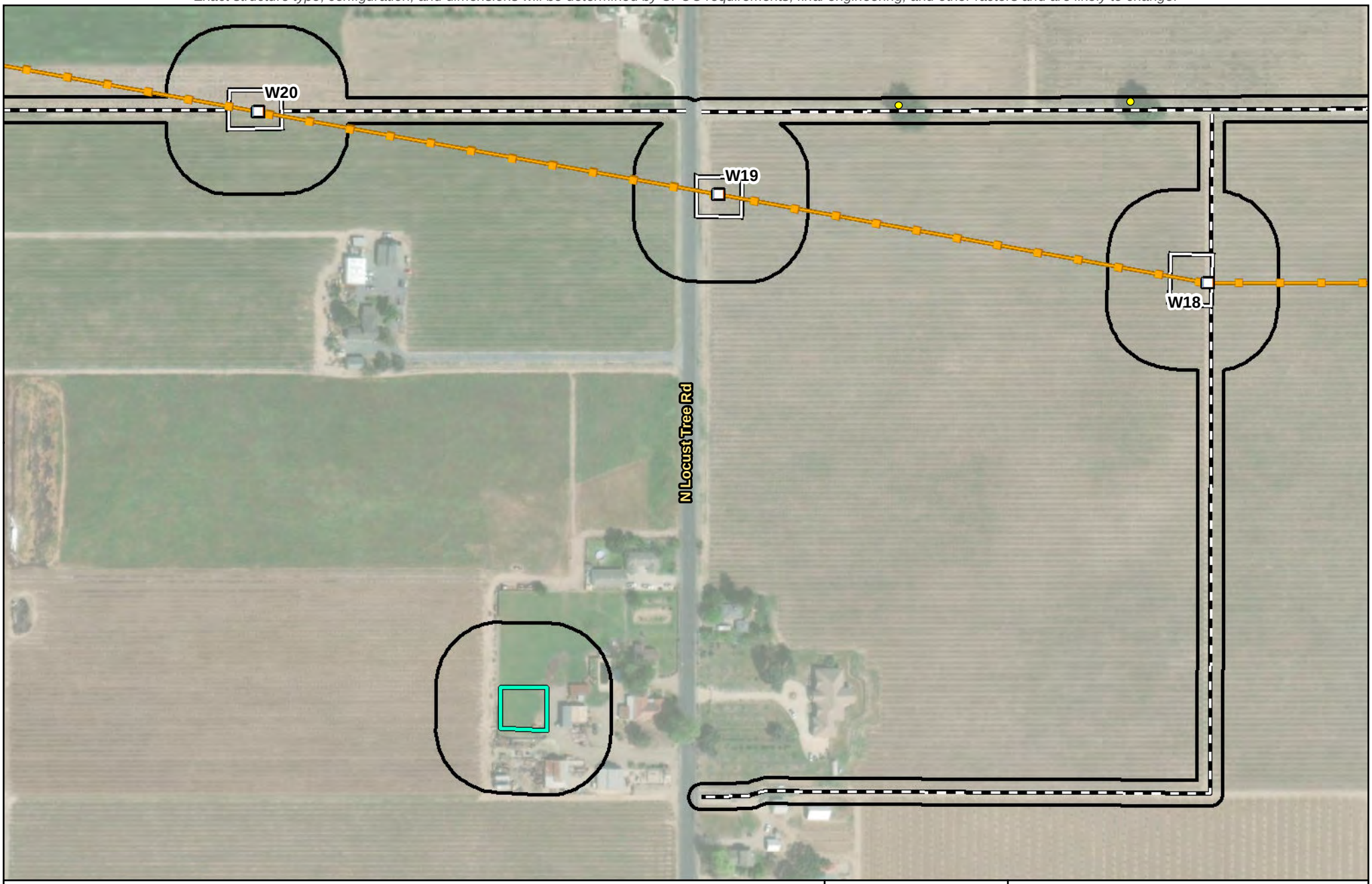

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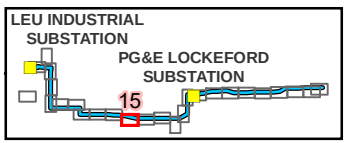

Source:
1) Esri World Imagery

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FIGURE 2
Project Elements and Biological Study Area

Northern San Joaquin 230 kV Transmission Project

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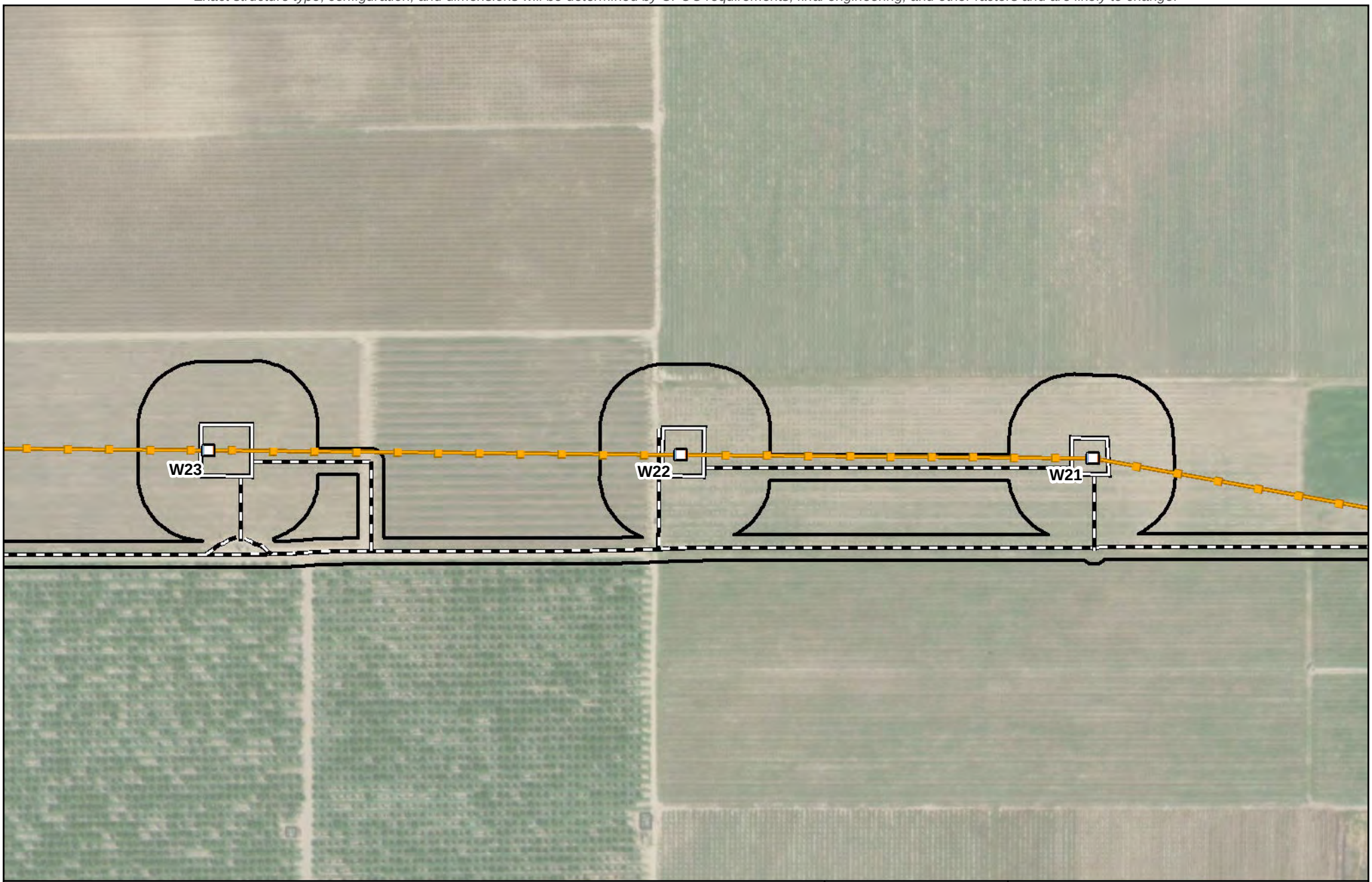

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
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- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
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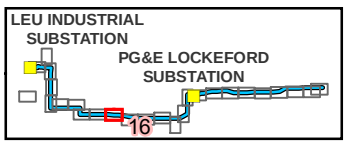

Source:
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FIGURE 2
Project Elements and Biological Study Area
Page 16 of 26
Northern San Joaquin 230 kV Transmission Project

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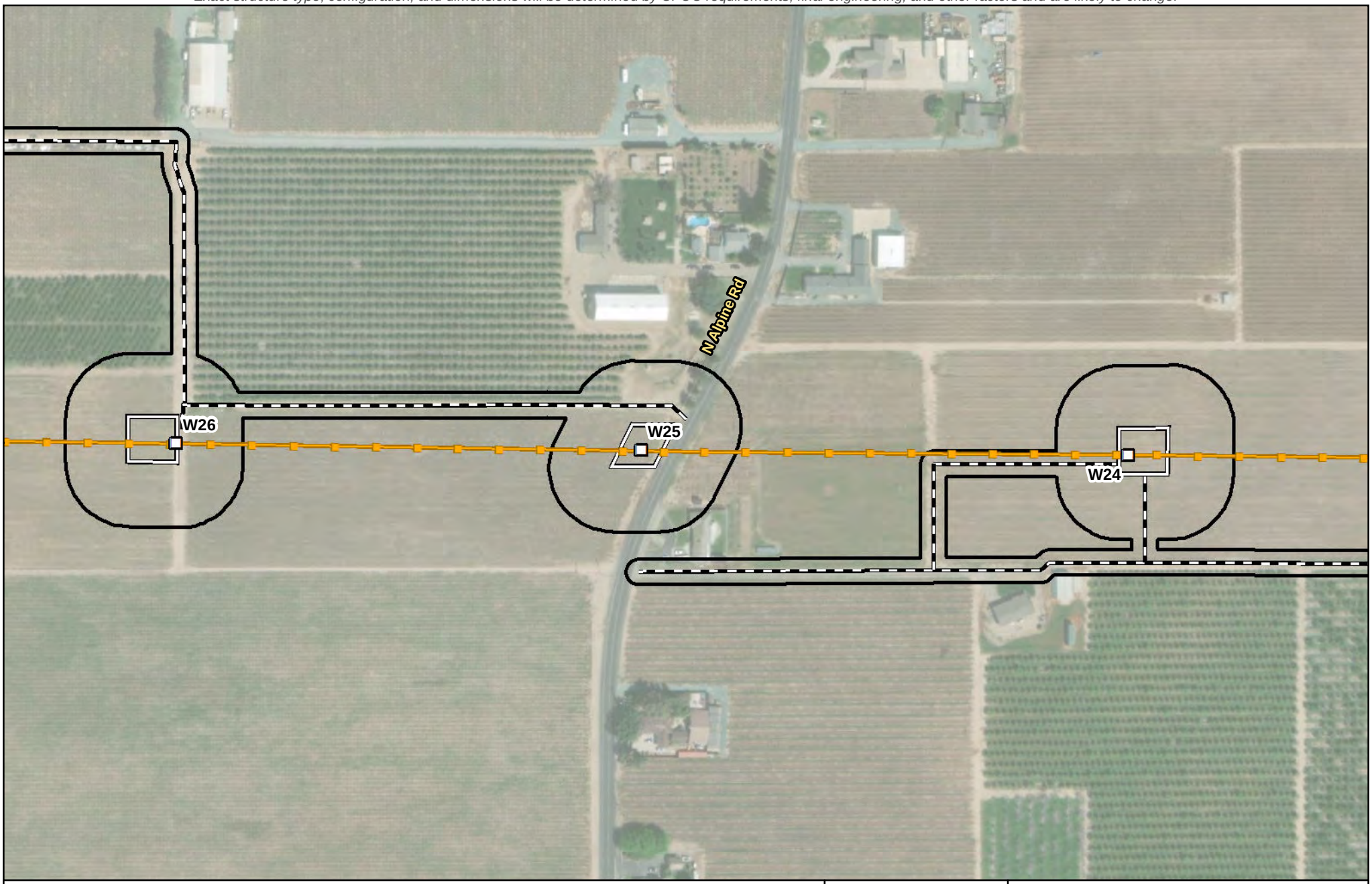

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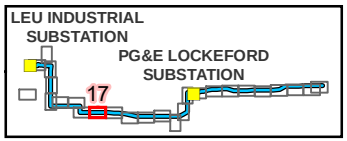

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Northern San Joaquin 230 kV Transmission Project

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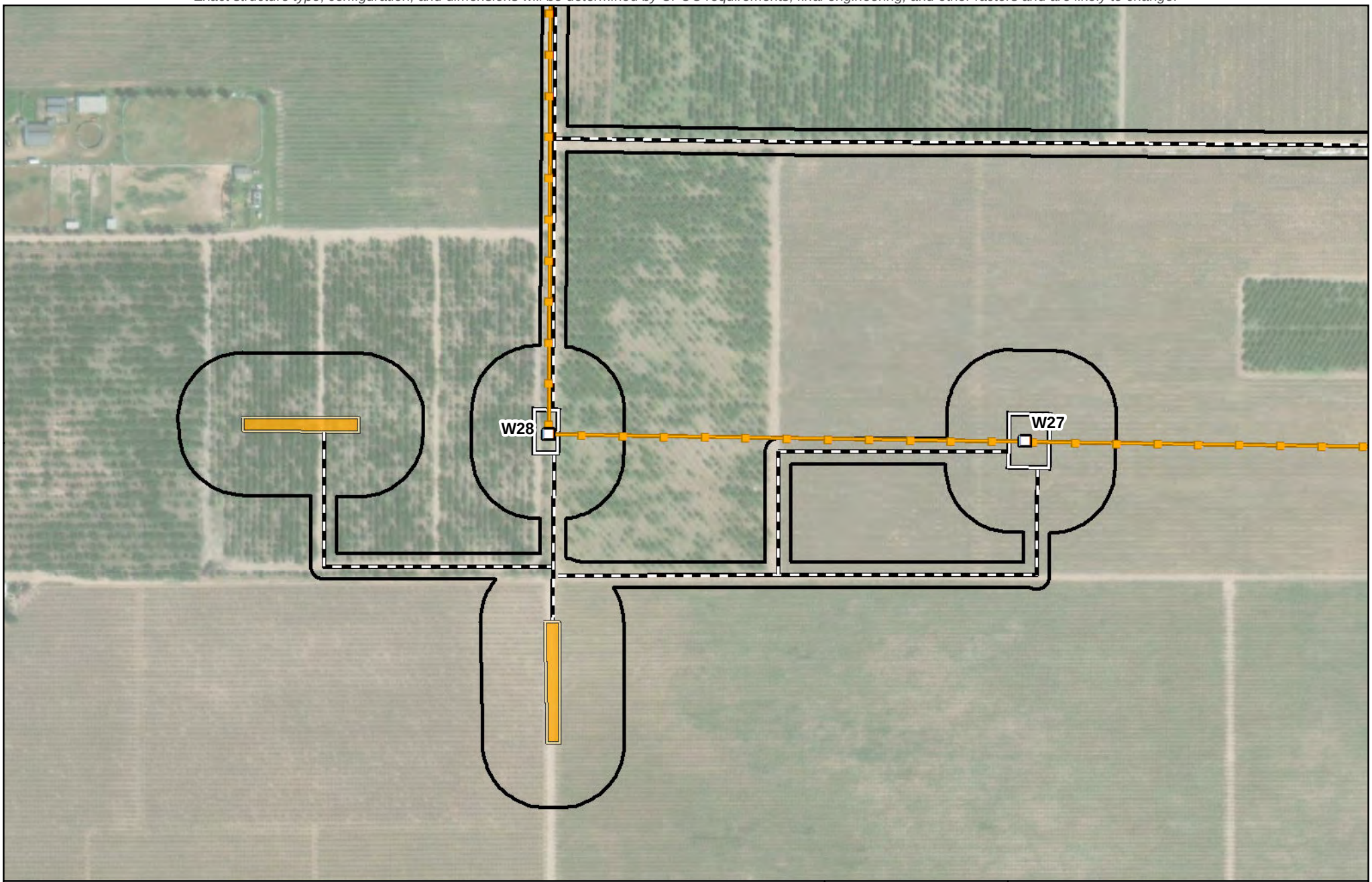

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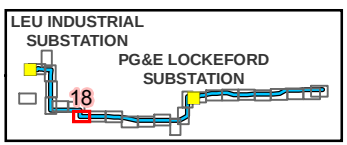

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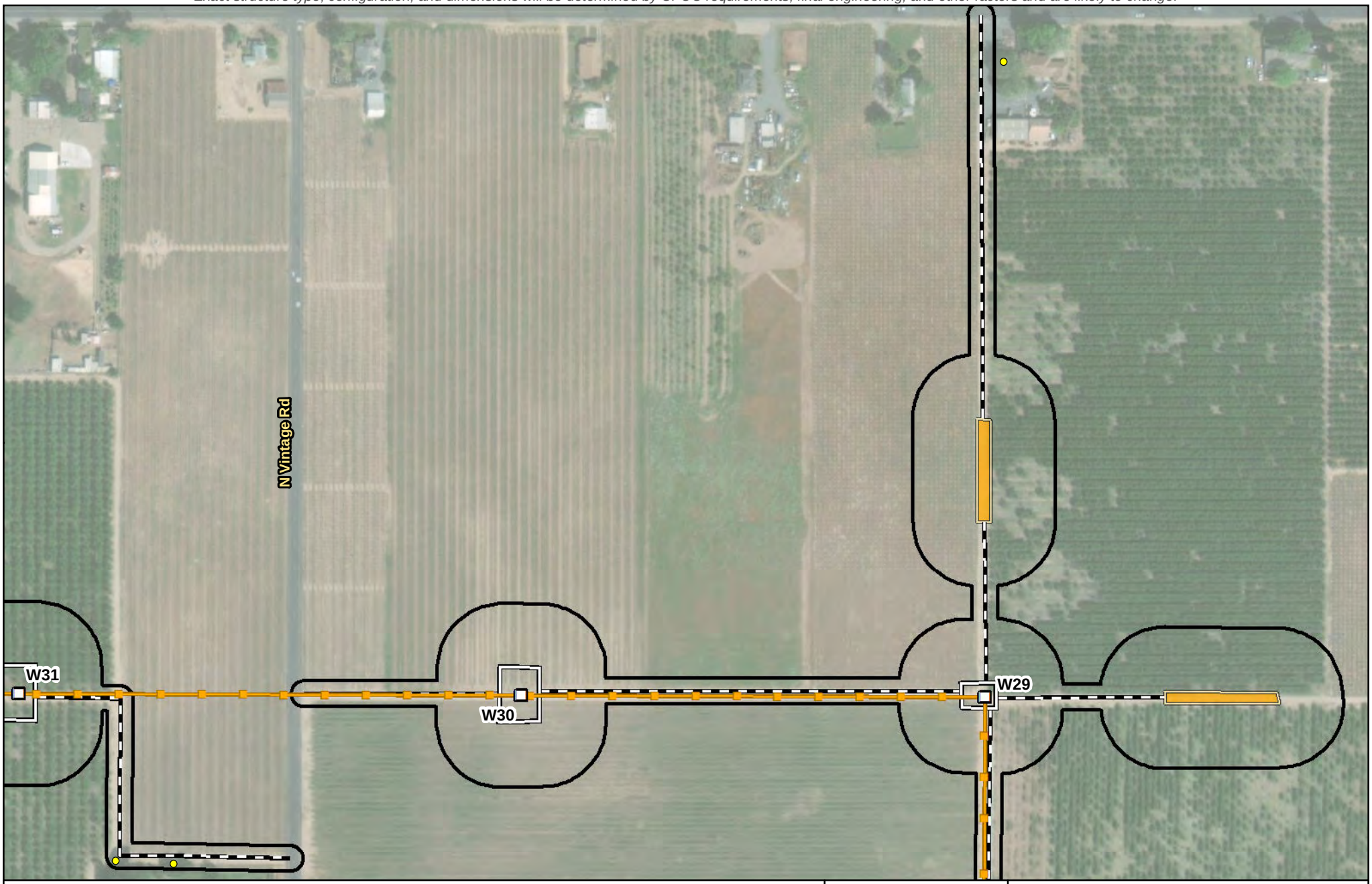

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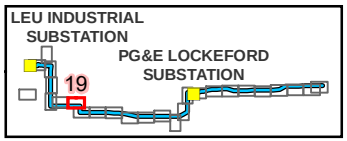

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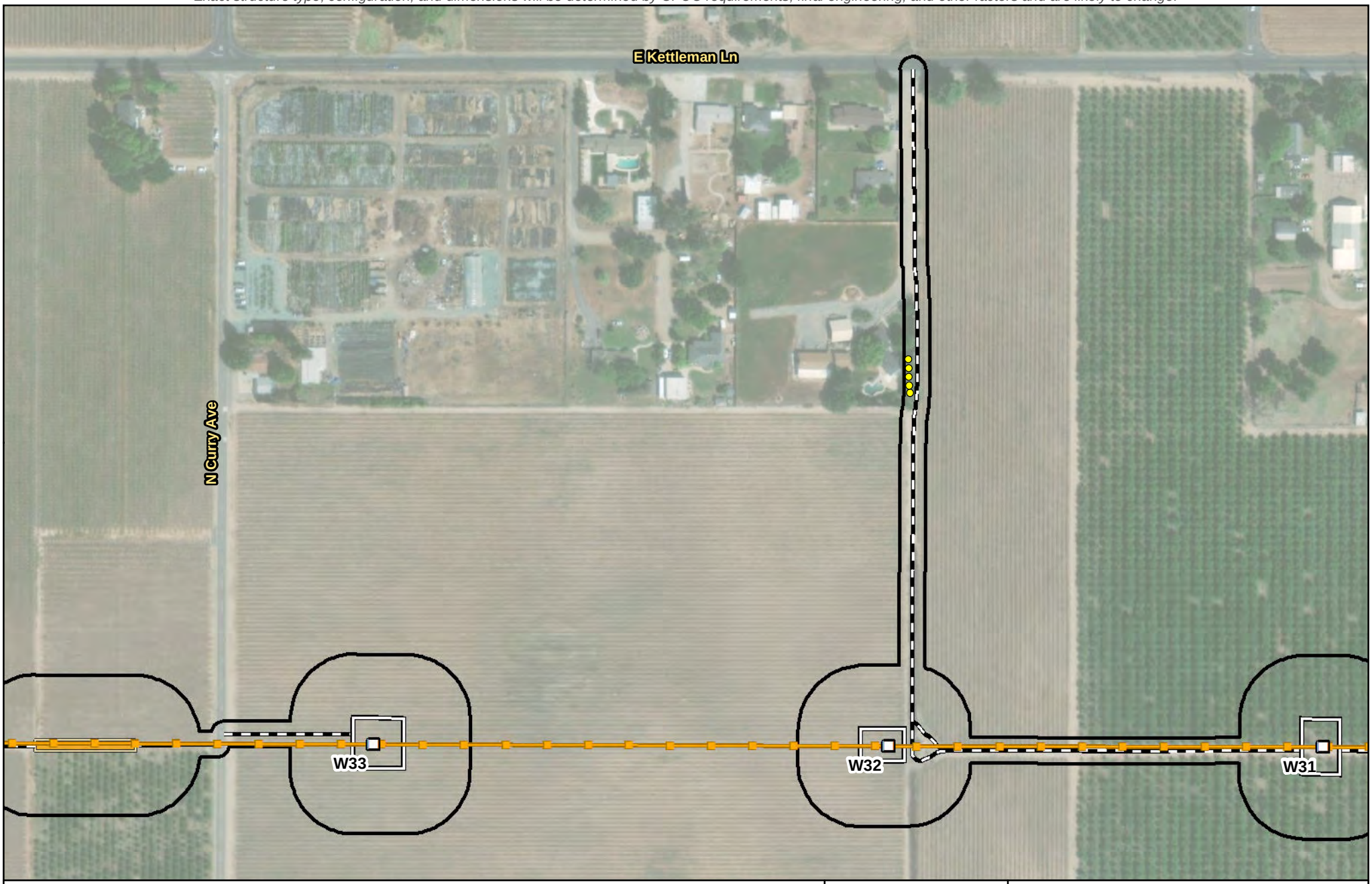

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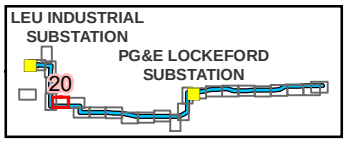

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Northern San Joaquin 230 kV Transmission Project

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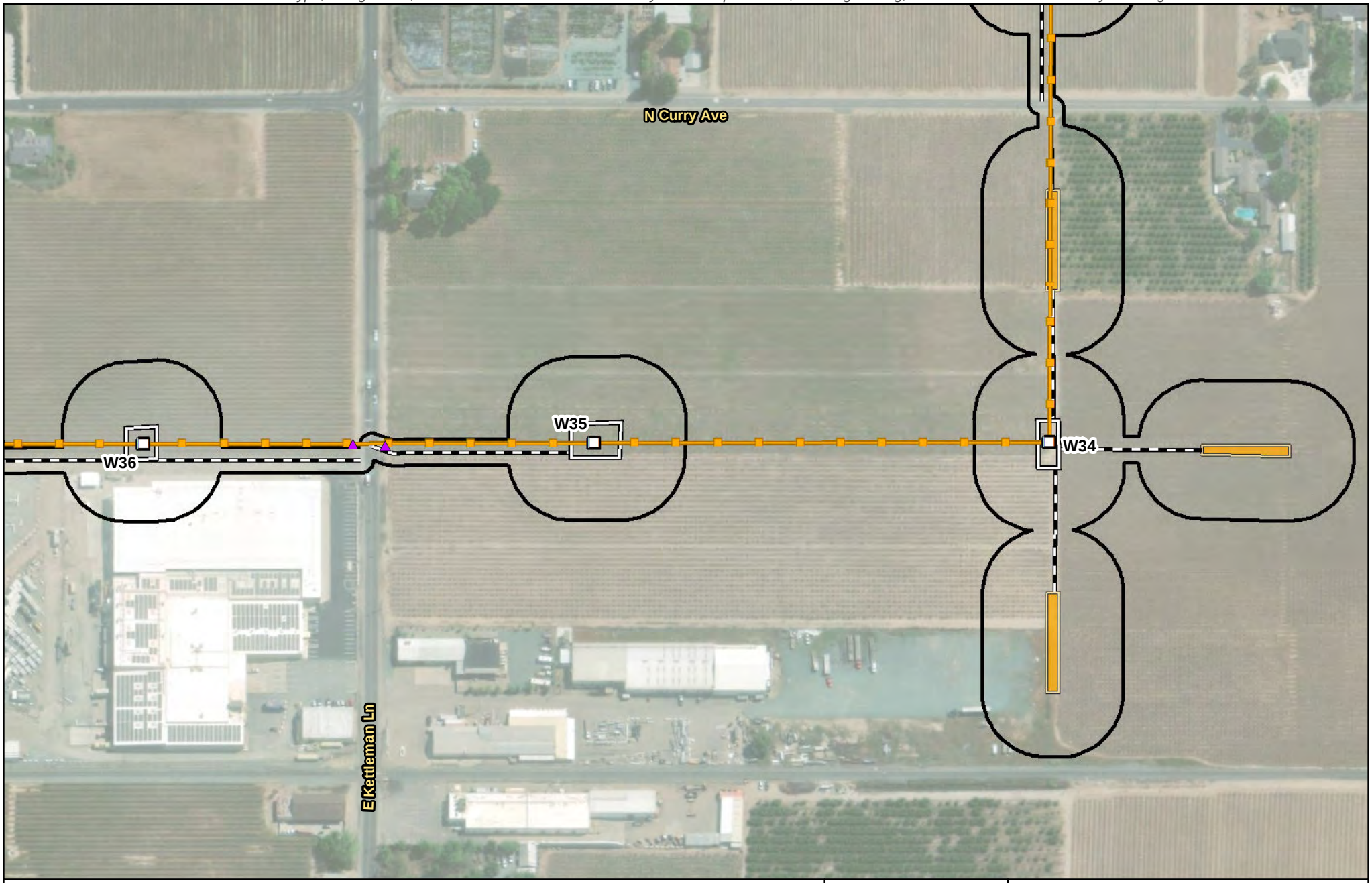

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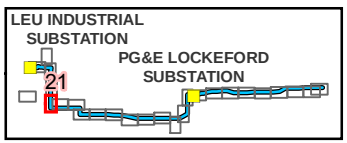

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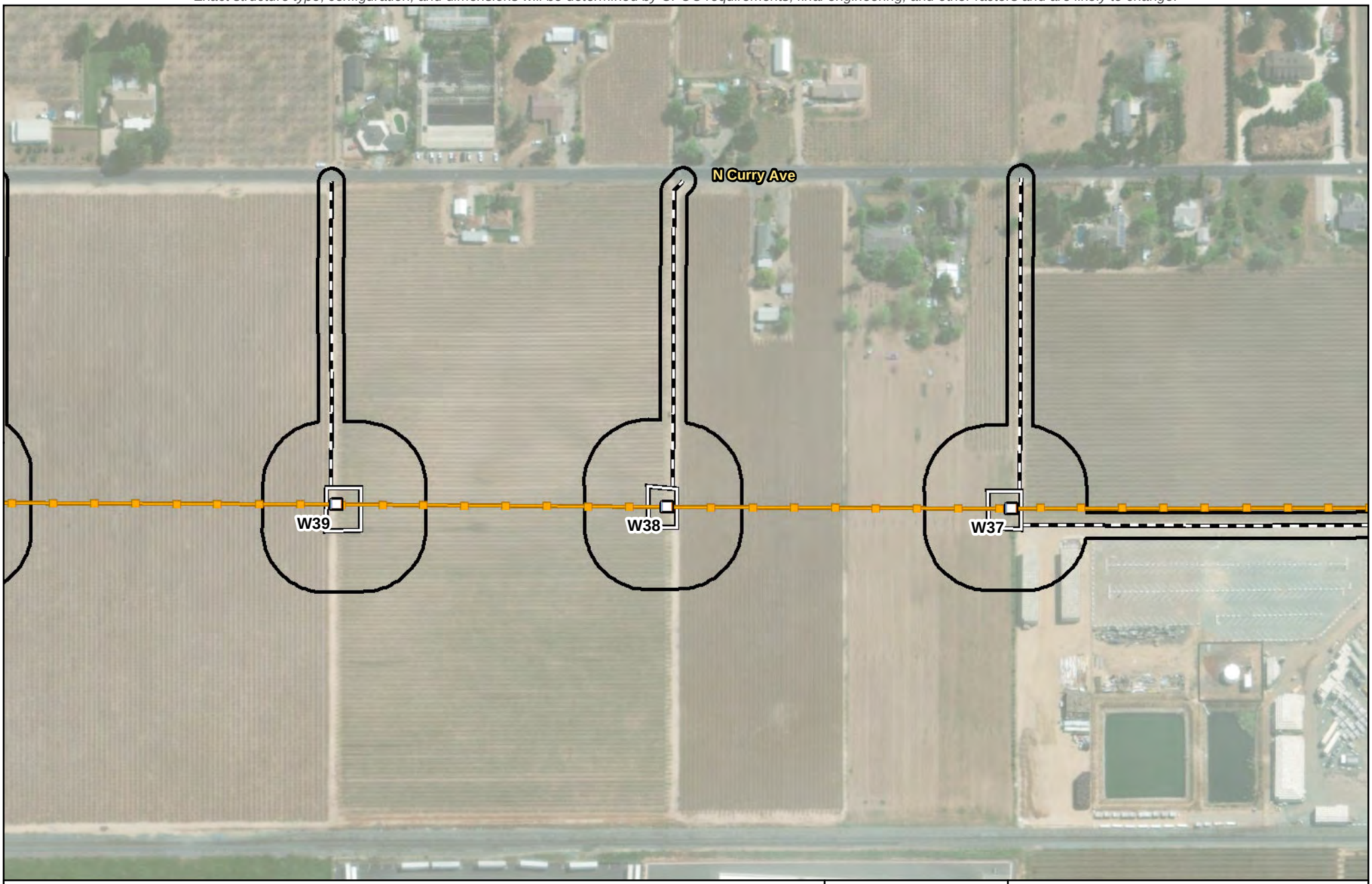

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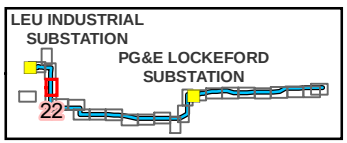

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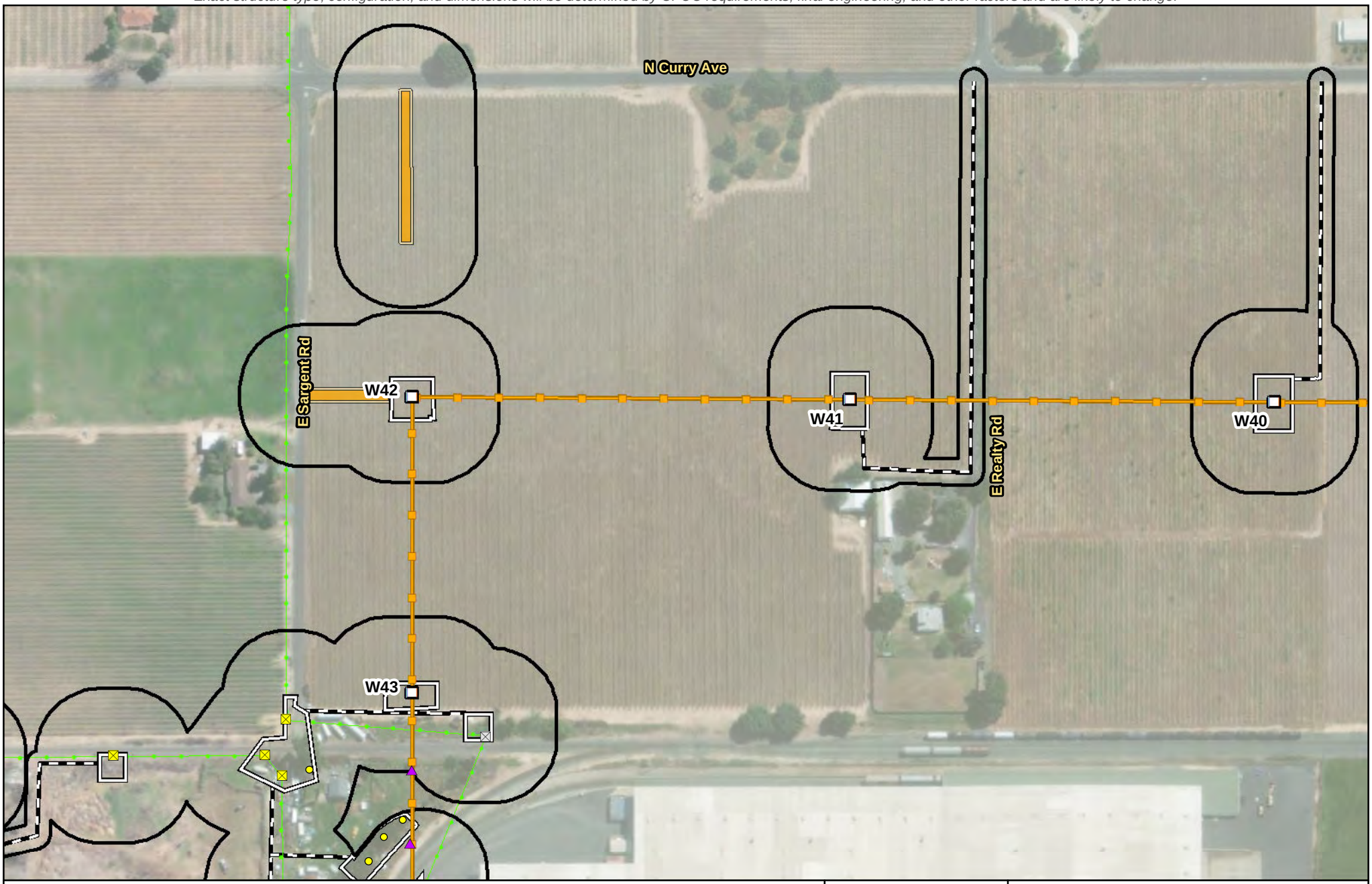

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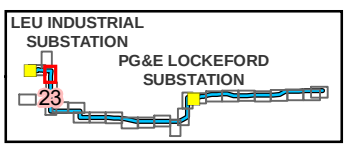

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Project Elements and Biological Study Area

Northern San Joaquin 230 kV Transmission Project

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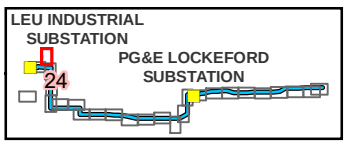

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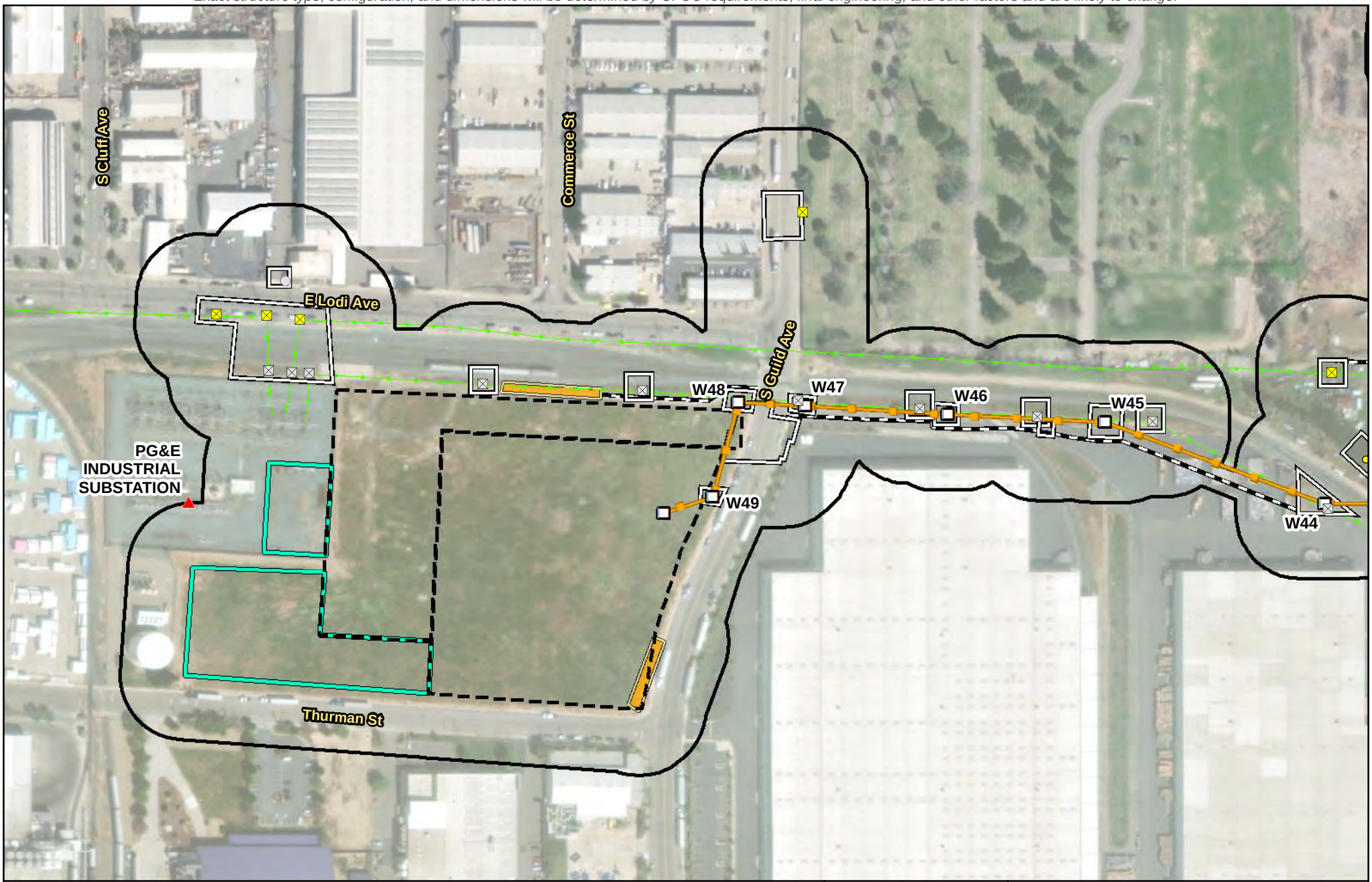

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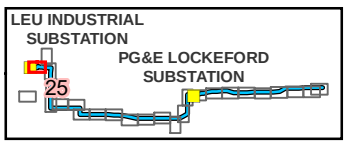

Source:
1) Esri World Imagery

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0 100 Feet

Scale: 1:3,000

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Page 25 of 26
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\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Rare_Plants\Figure_2_230817.mxd kgrant1 8/21/2023

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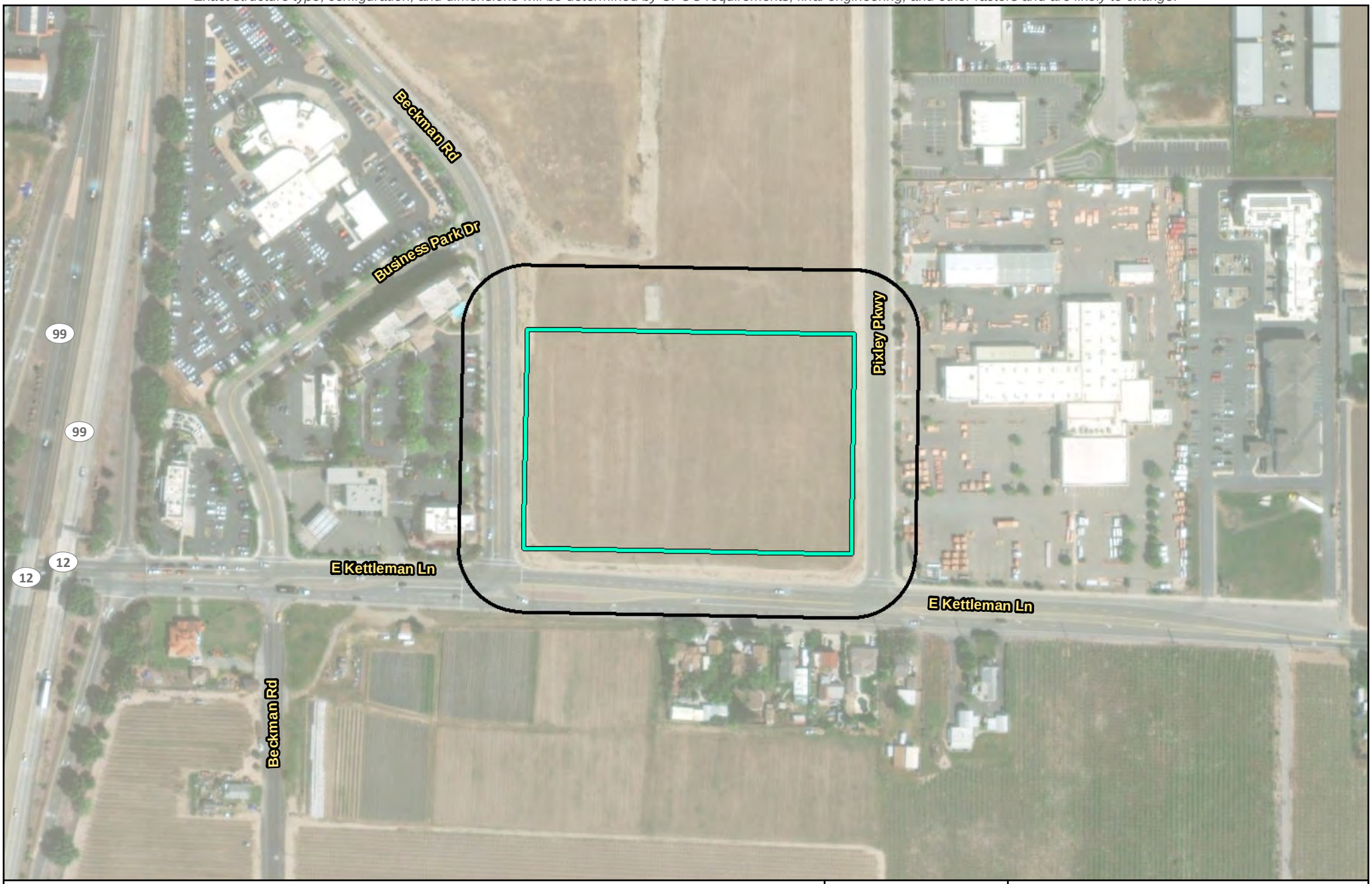

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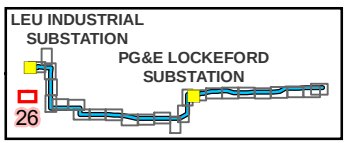

Source:
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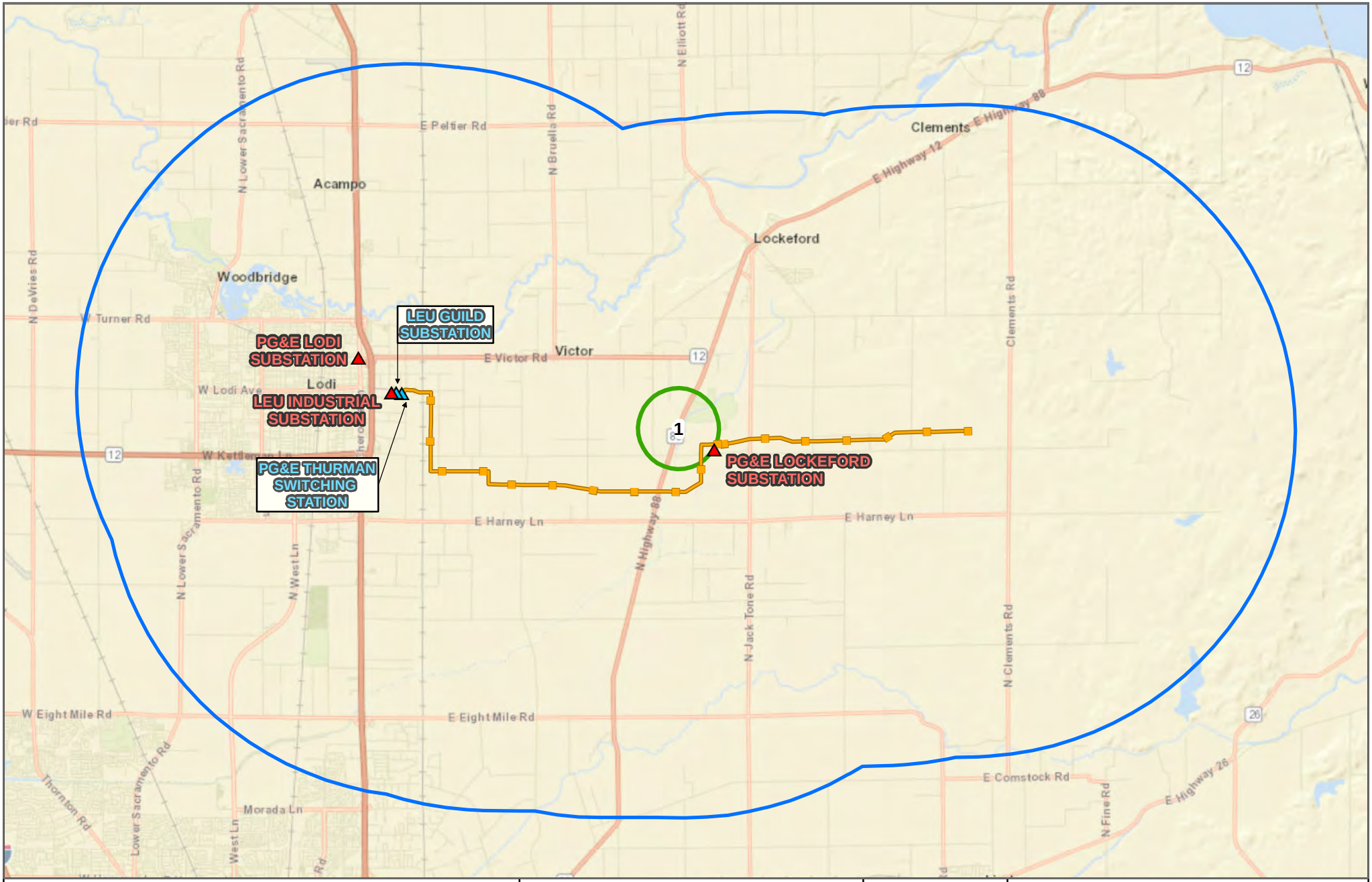
\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Rare_Plants\Figure_2_230817.mxd kgrant1 8/21/2023

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- 5-mile Project Buffer
- CNDDB Records within 5 Miles of the Project Area

CNDDB Record Labels

1. Sanford's arrowhead

Source:
1) ESRI World Street Map
2) CDFW, California Natural Diversity Database, December 2020.

0 8,400 16,800 Feet

N

Scale: 1:125,000



Figure 3
CNDDB Records within 5 Miles of the Project Area - Plants
Northern San Joaquin 230 kV Transmission Project

Jacobs

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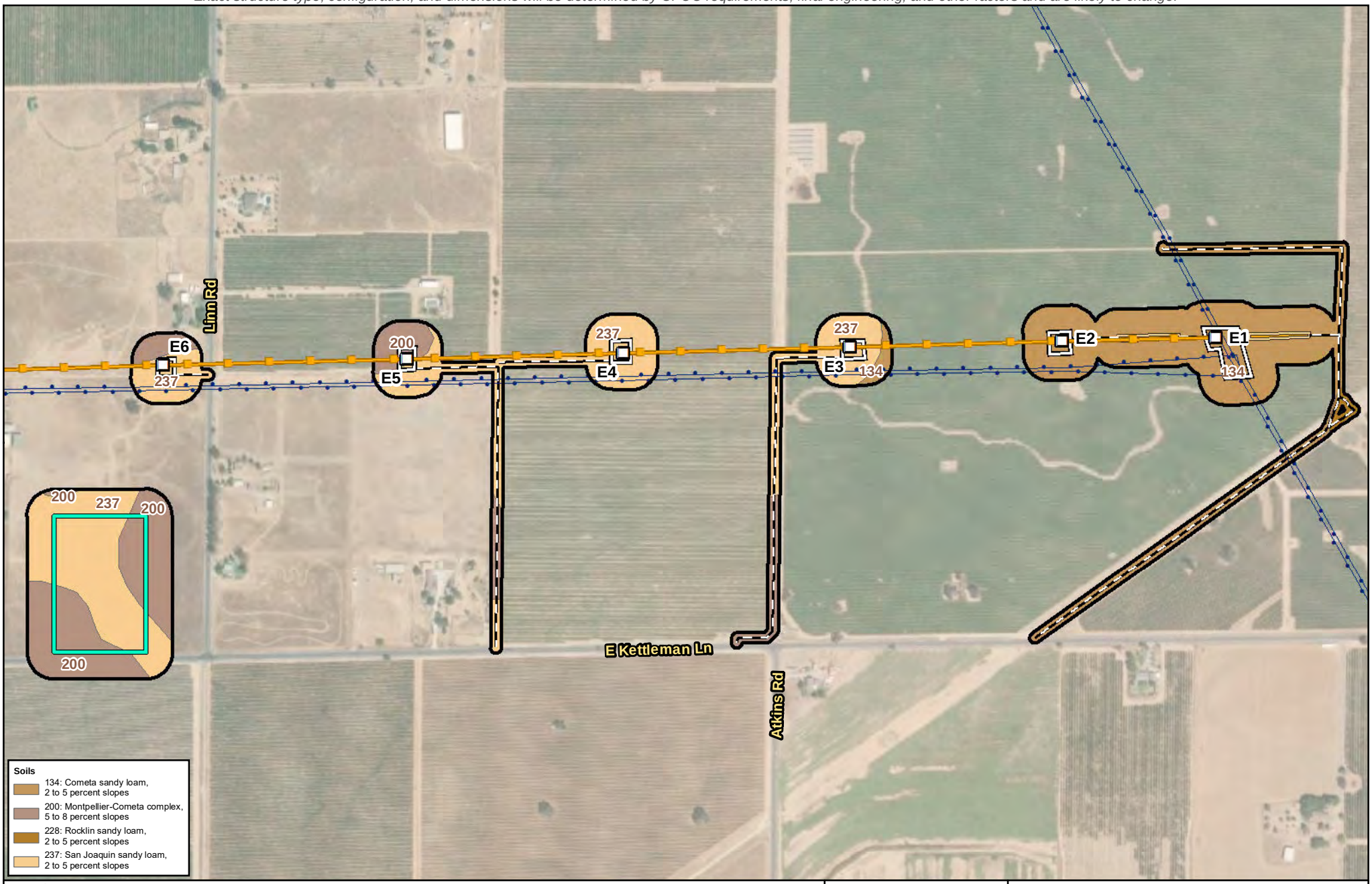

FIGURE 4
NRCS Soil Series within the Biological Study Area
Page 1 of 10
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Rare_Plants\Figure_4_230818.mxd kgrant1 8/18/2023

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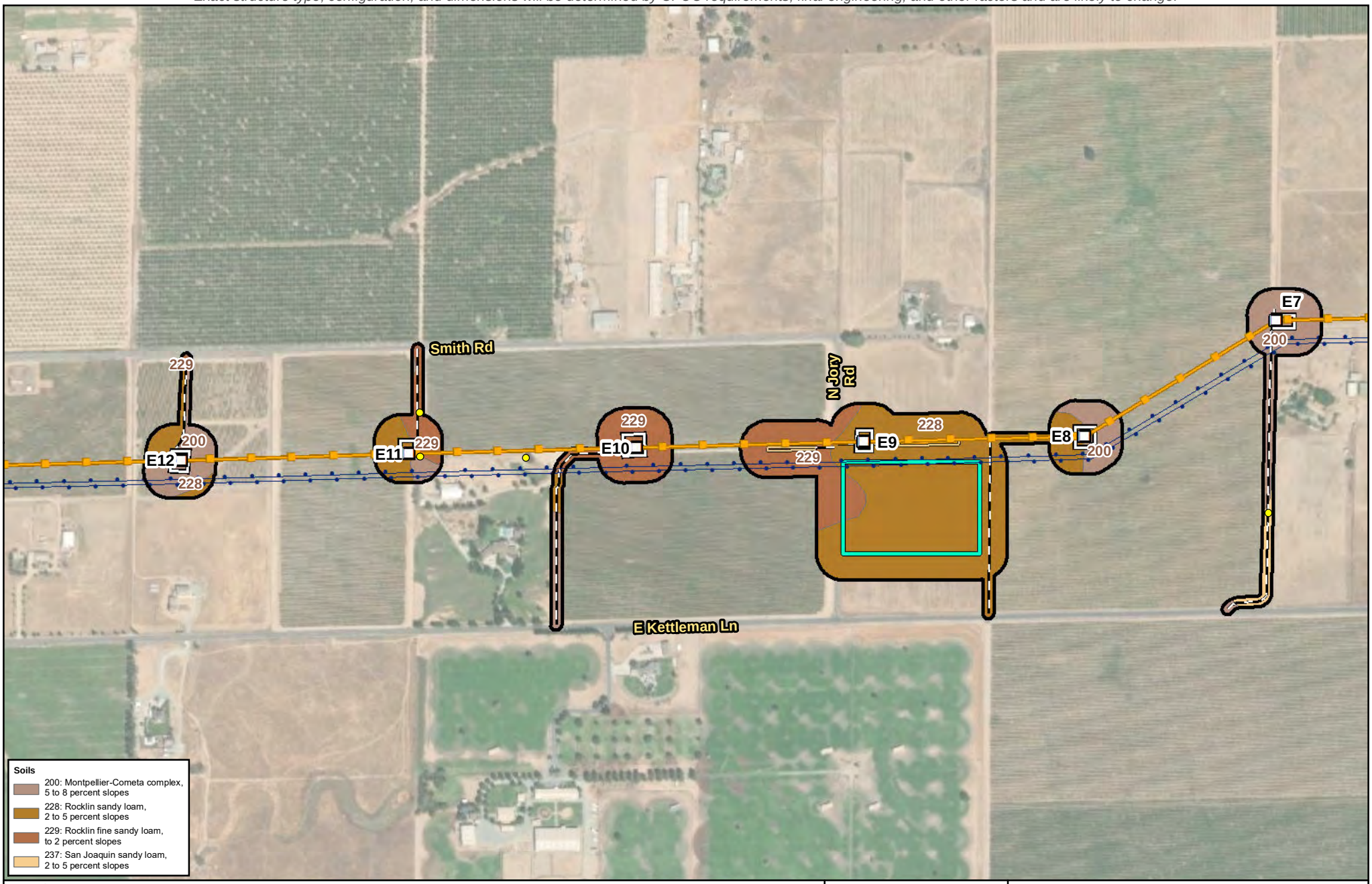

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Page 2 of 10
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Rare_Plants\Figure_4_230818.mxd kgrant1 8/18/2023

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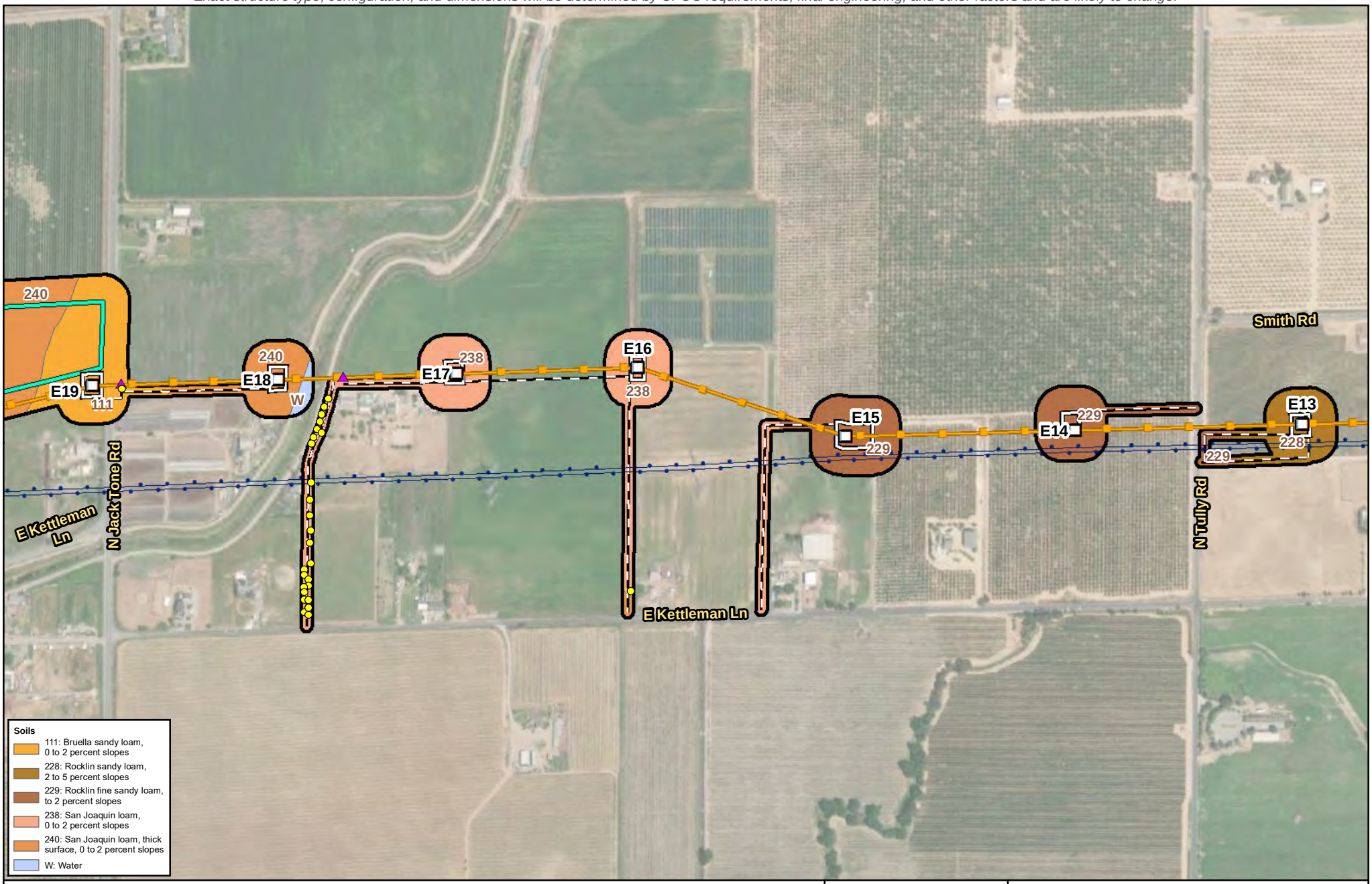

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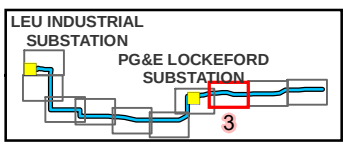

Source:
1) Esri World Imagery

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Scale: 1:7,200

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Northern San Joaquin 230 kV Transmission Project

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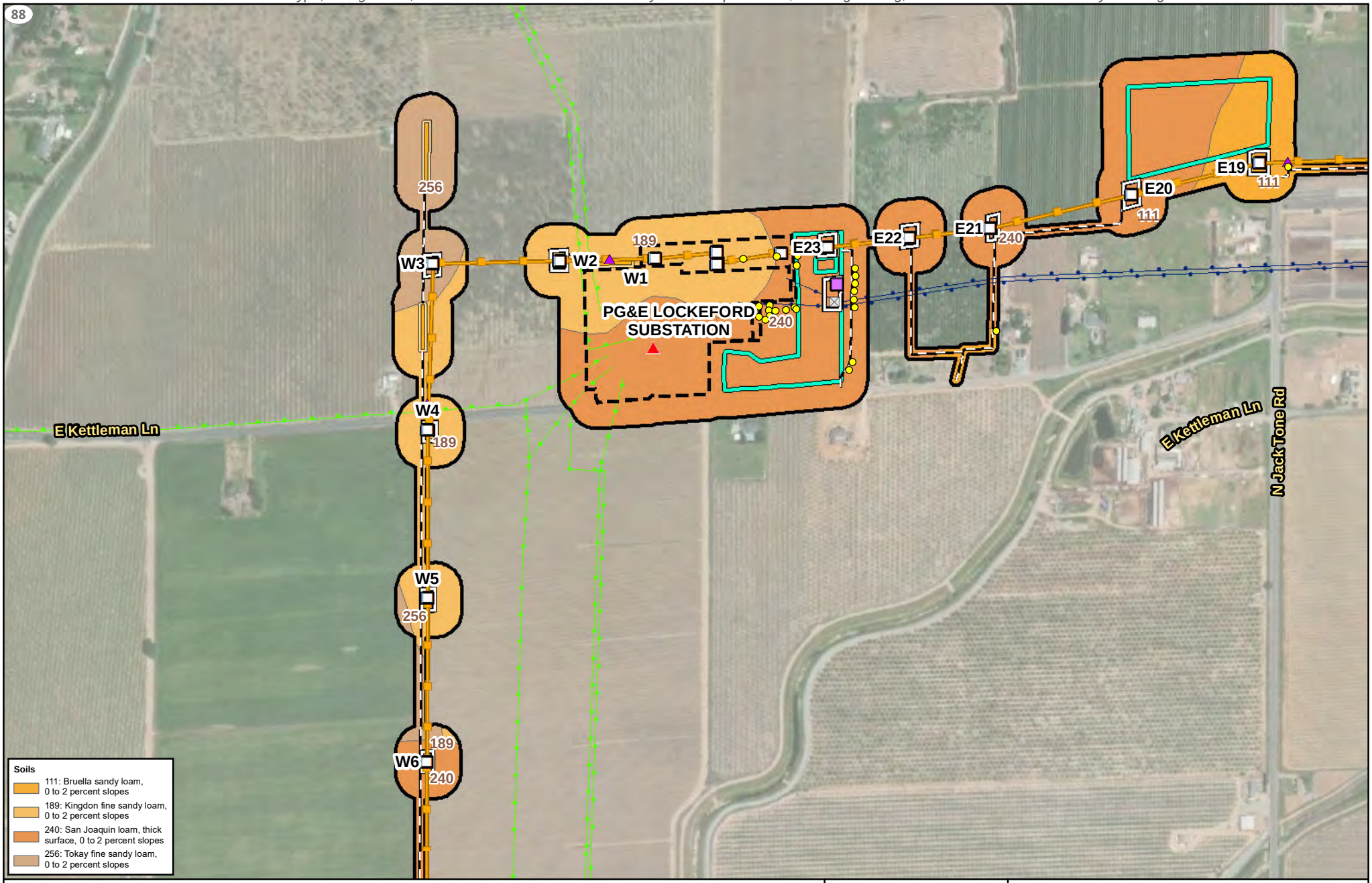

FIGURE 4
NRCS Soil Series within the Biological Study Area
Page 4 of 10
Northern San Joaquin 230 kV Transmission Project

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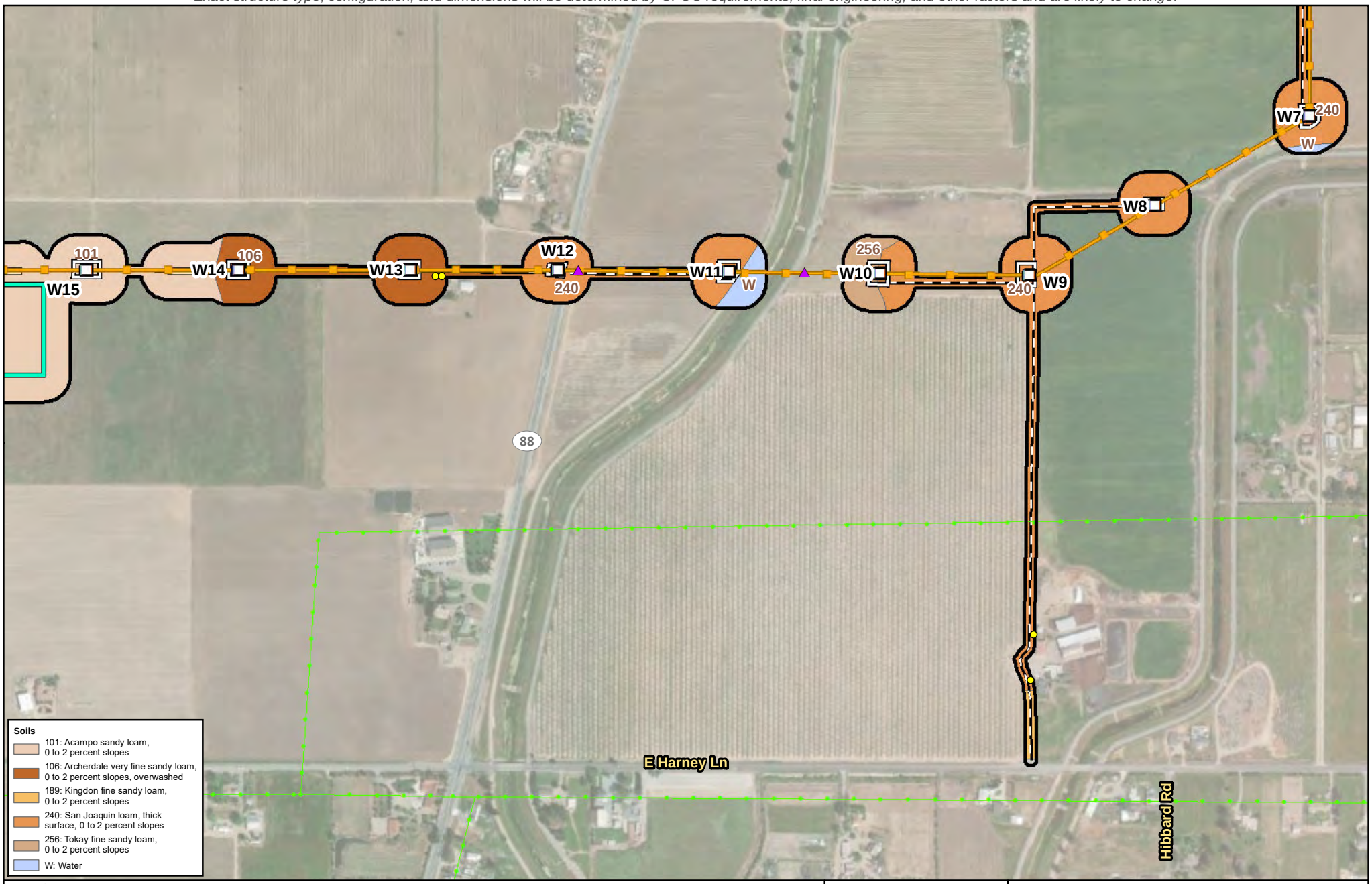

Source:
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FIGURE 4
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Page 5 of 10
Northern San Joaquin 230 kV Transmission Project

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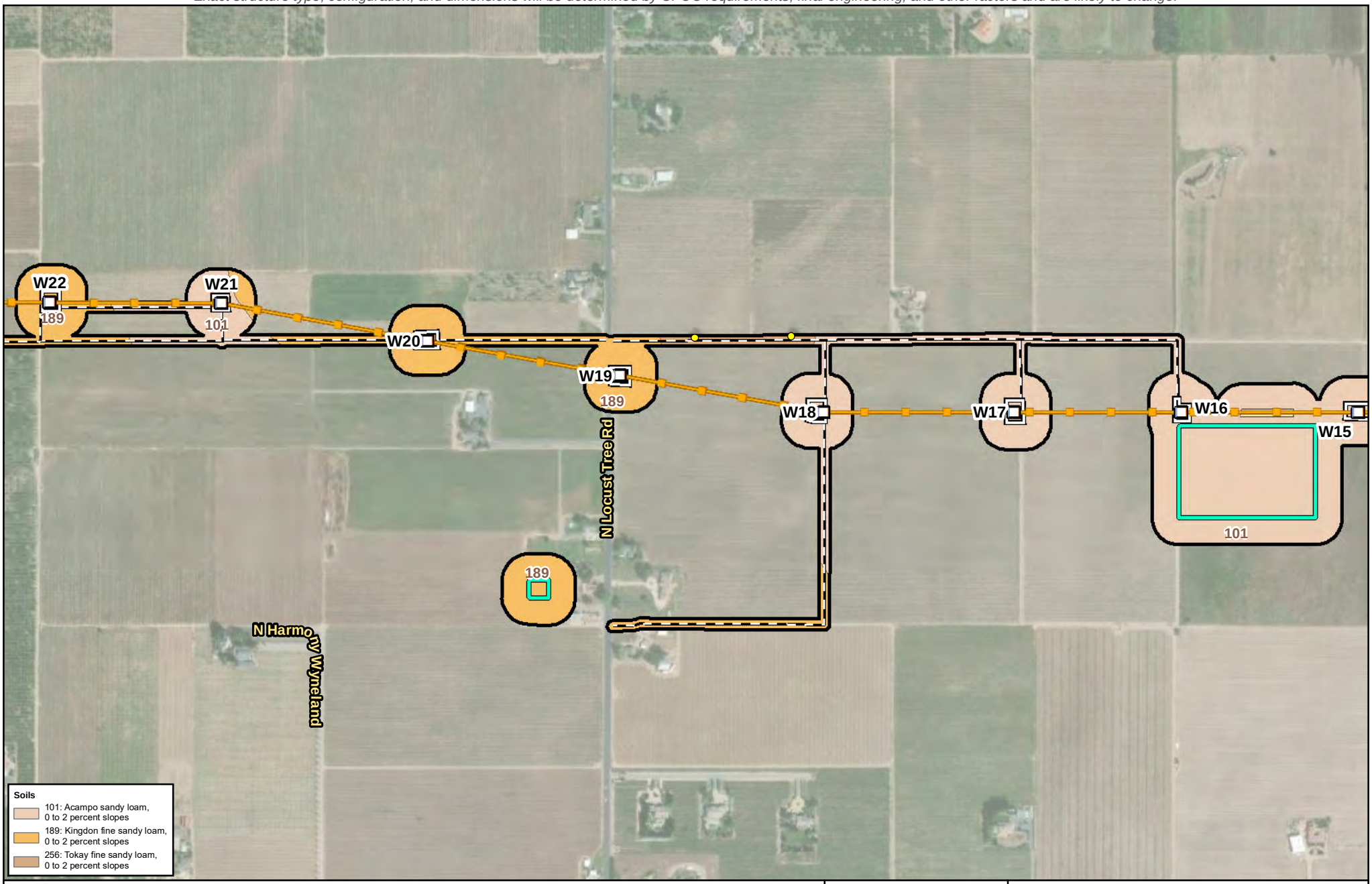

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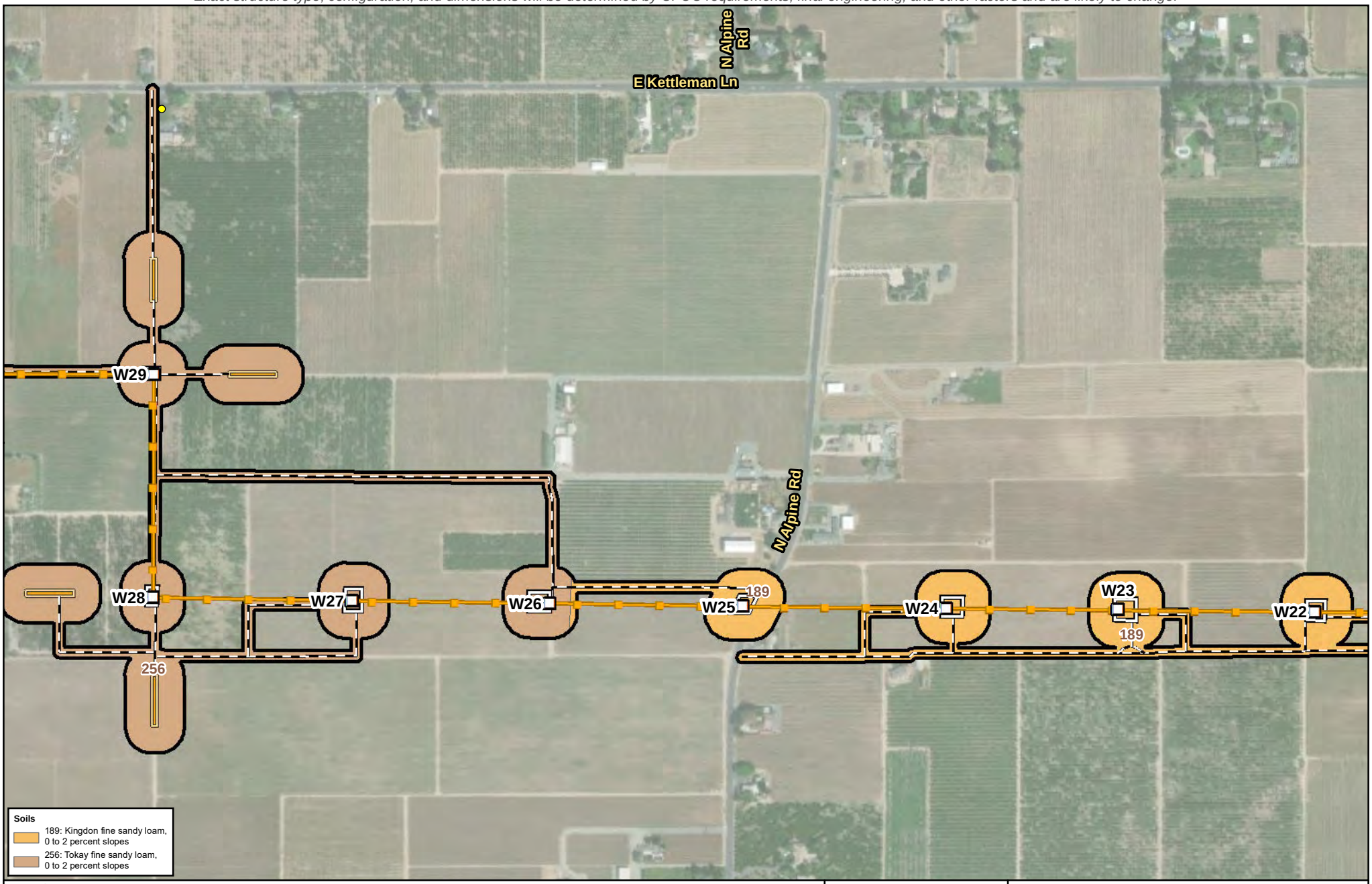

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Northern San Joaquin 230 kV Transmission Project

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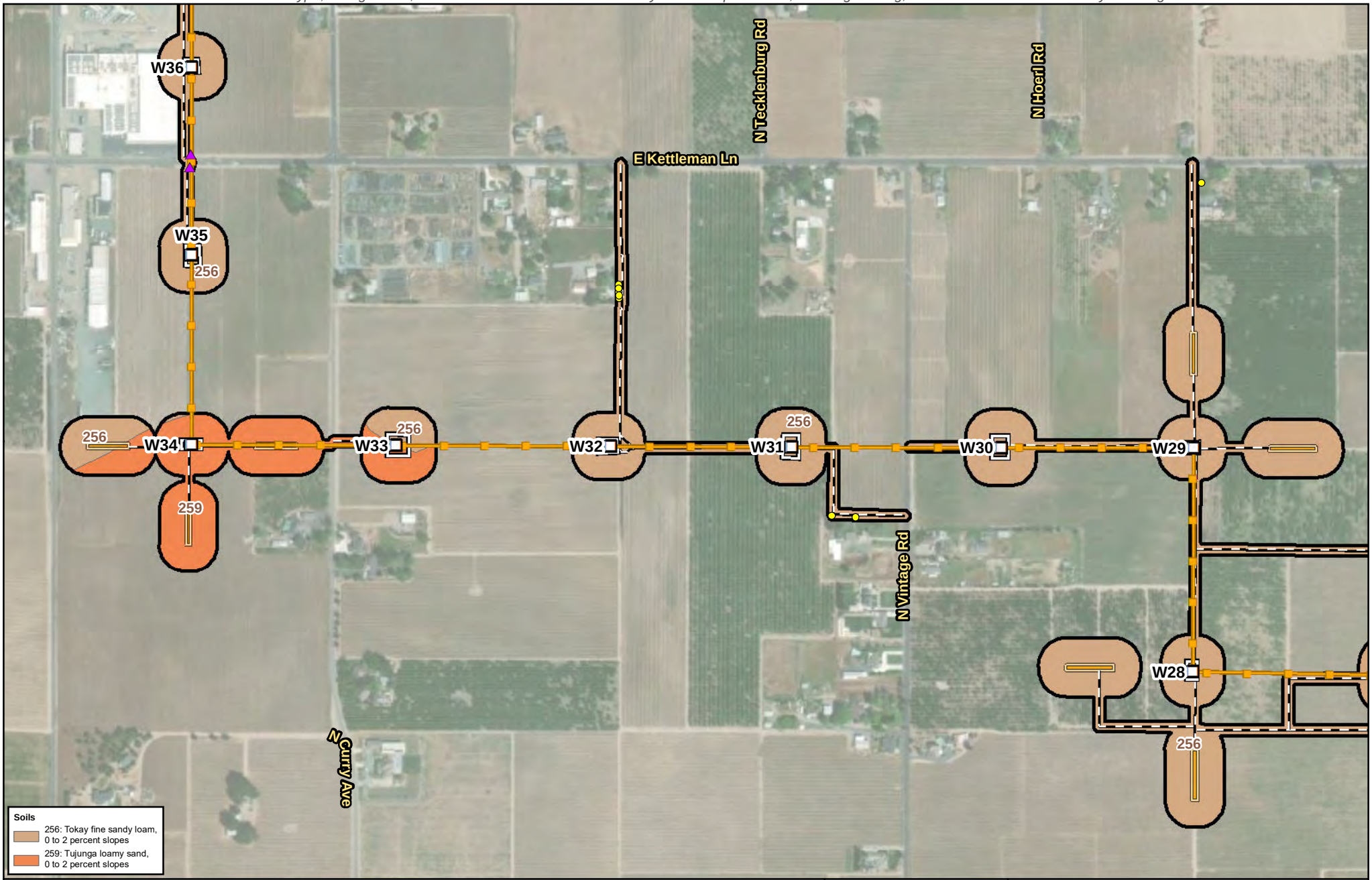

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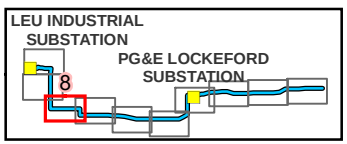

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1) Esri World Imagery

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Northern San Joaquin 230 kV Transmission Project

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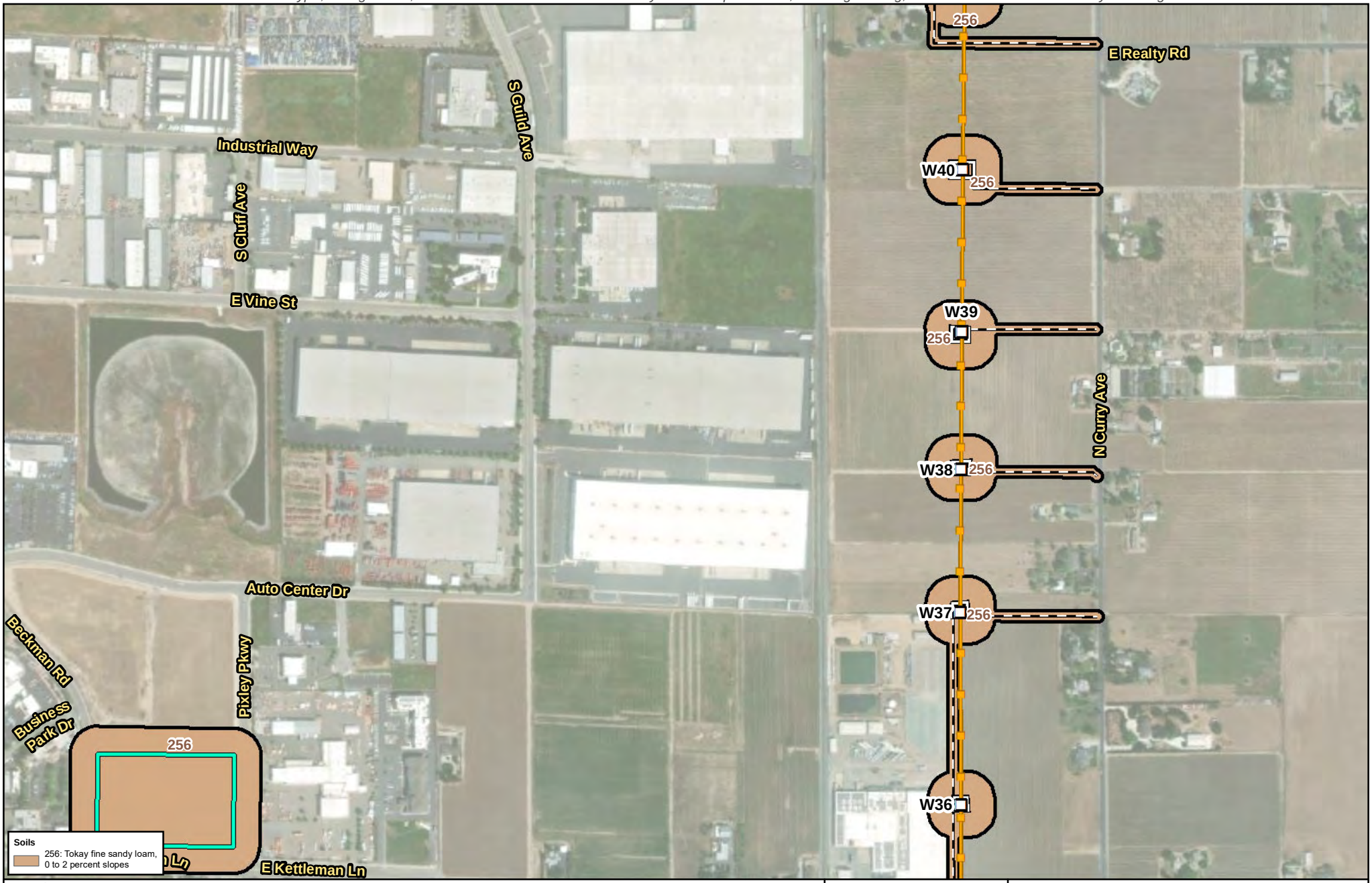

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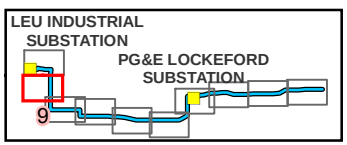

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FIGURE 4
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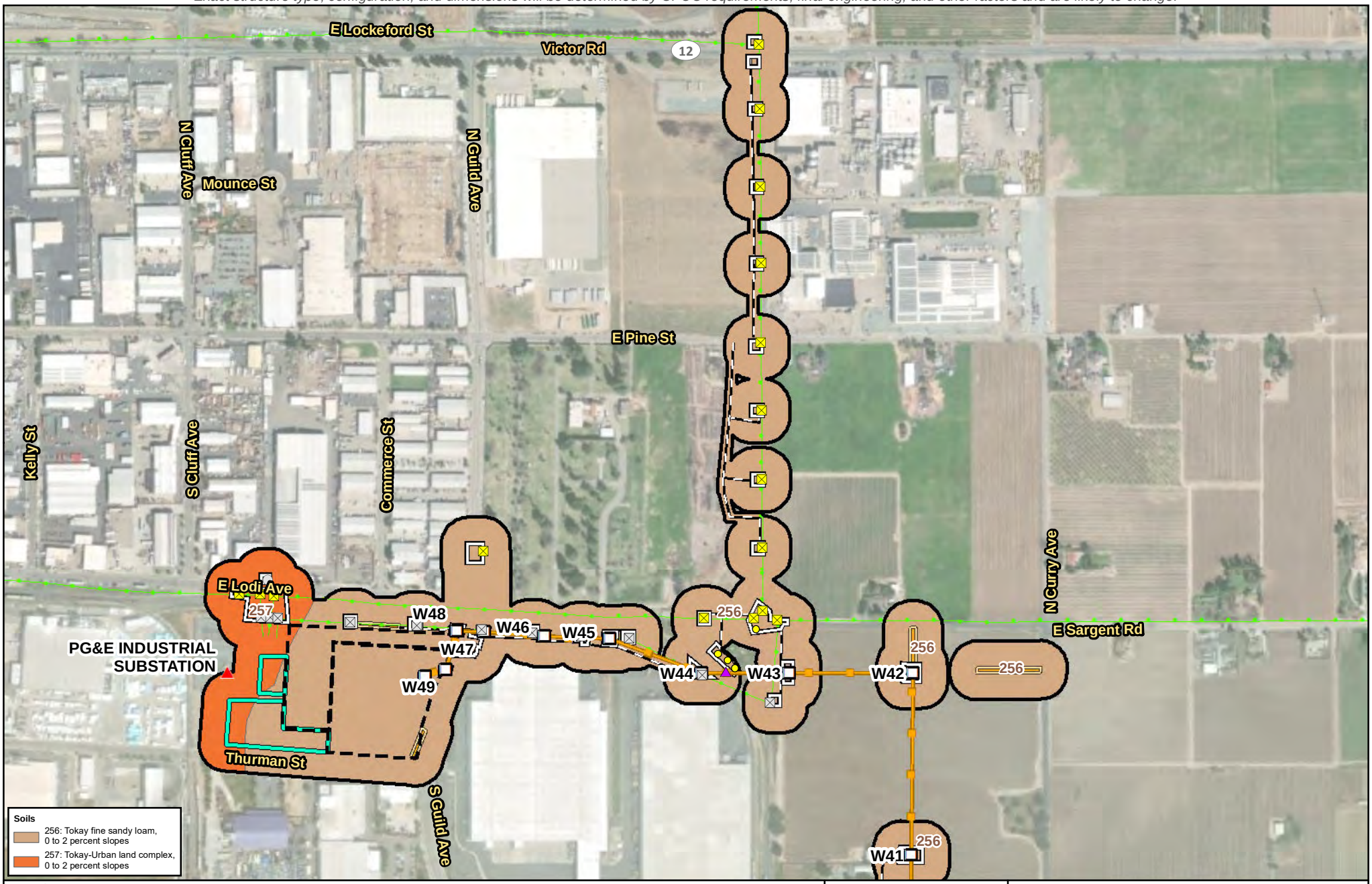

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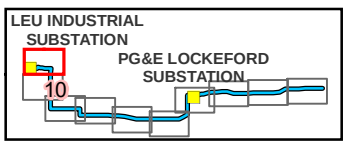

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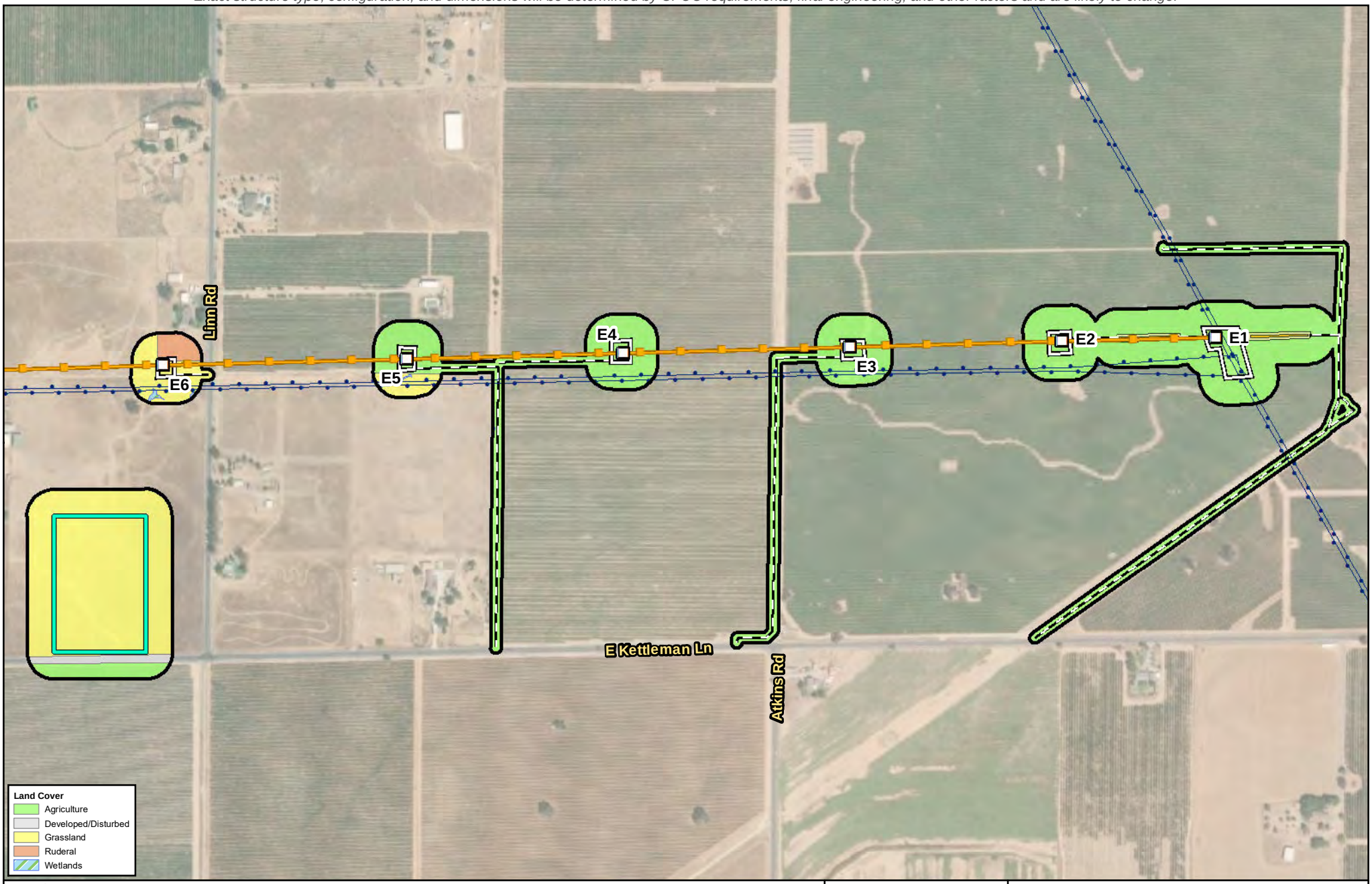

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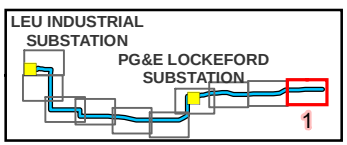

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FIGURE 5
Land Cover within the Biological Study Area
Page 1 of 10
Northern San Joaquin 230 kV Transmission Project

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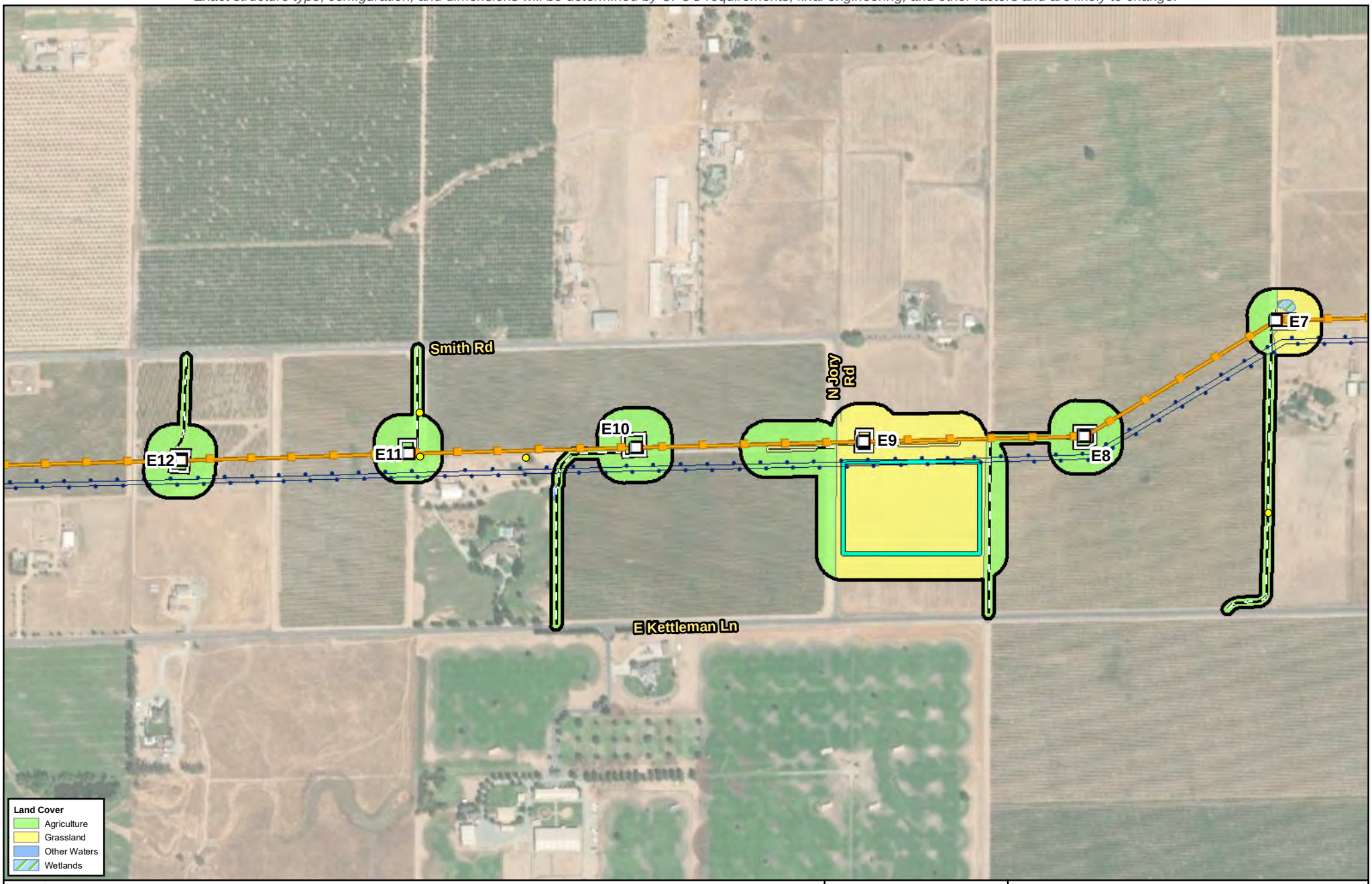

FIGURE 5
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Page 2 of 10
Northern San Joaquin 230 kV Transmission Project

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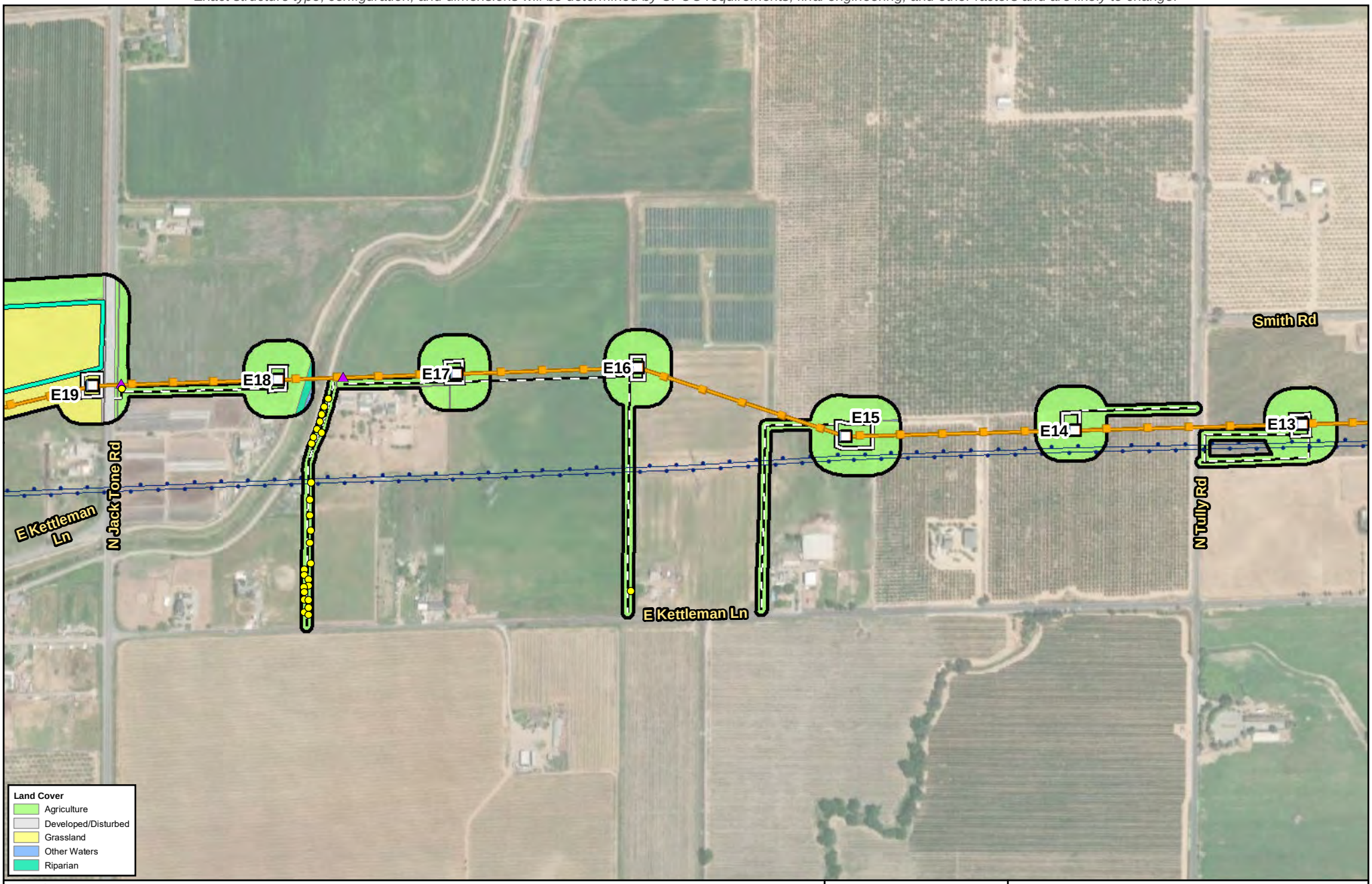

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Northern San Joaquin 230 kV Transmission Project

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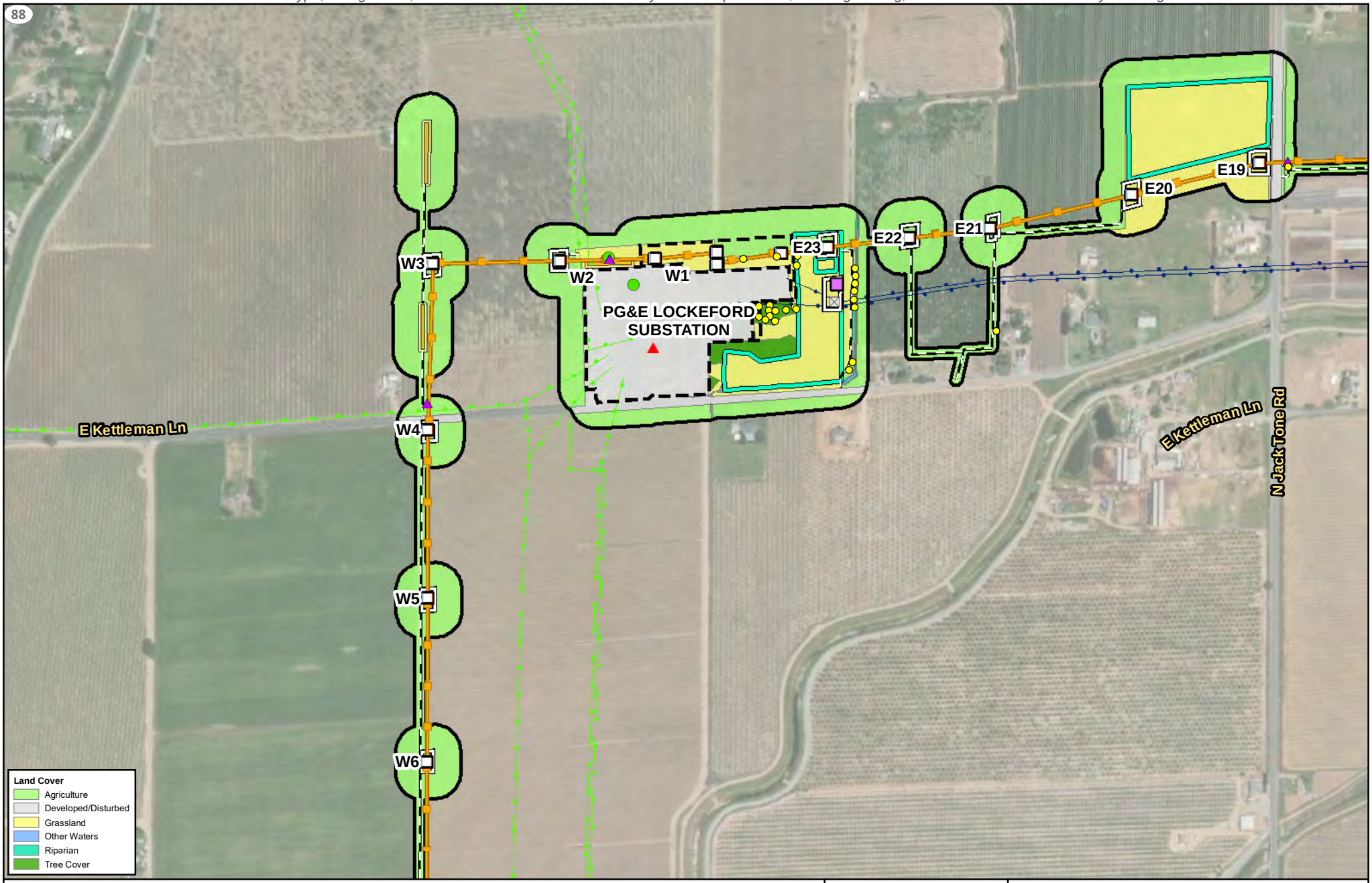

FIGURE 5
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Page 4 of 10
Northern San Joaquin 230 kV Transmission Project

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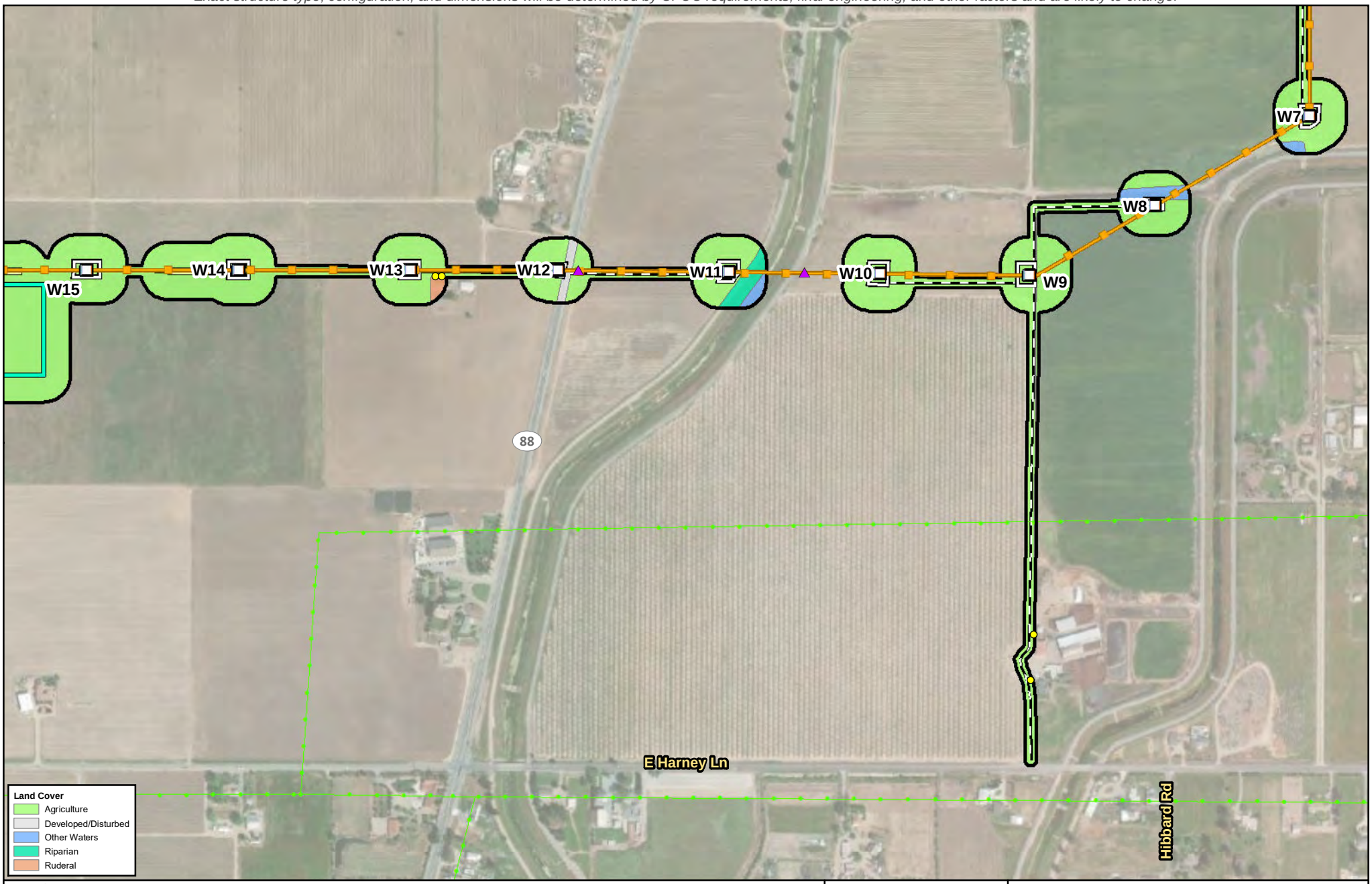

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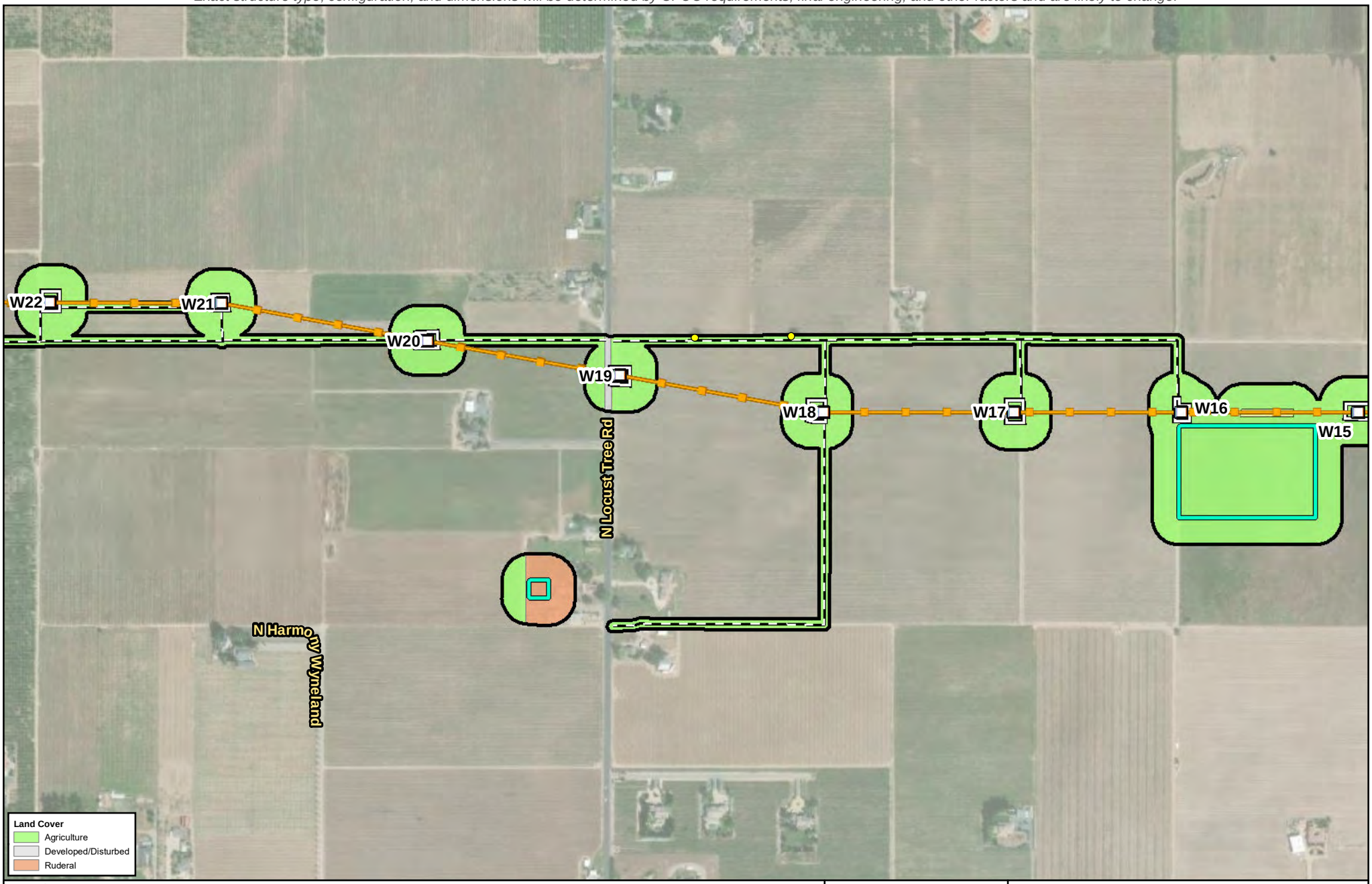

FIGURE 5
Land Cover within the Biological Study Area
Page 6 of 10
Northern San Joaquin 230 kV Transmission Project

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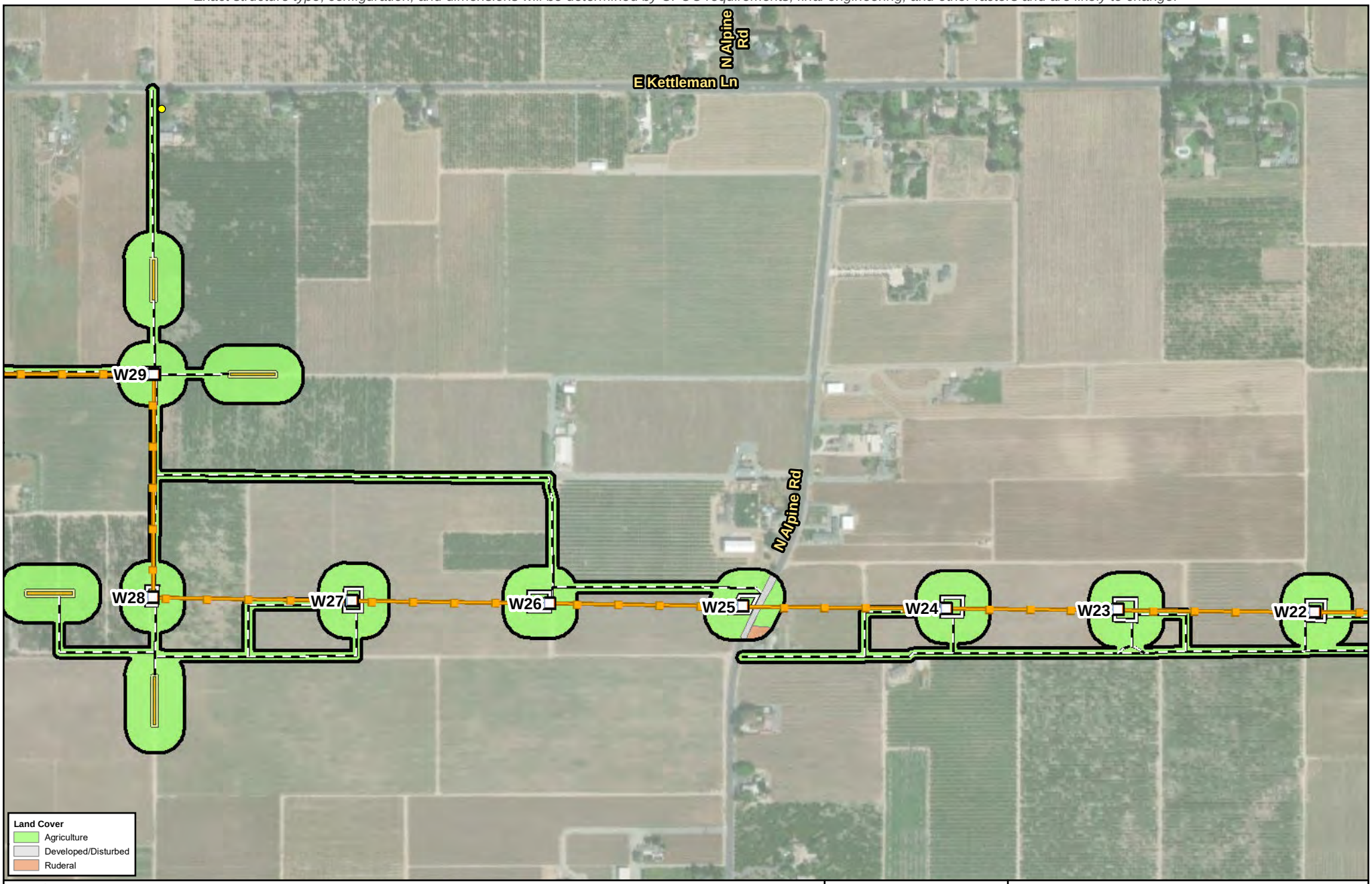

FIGURE 5
Land Cover within the Biological Study Area
Page 7 of 10
Northern San Joaquin 230 kV Transmission Project

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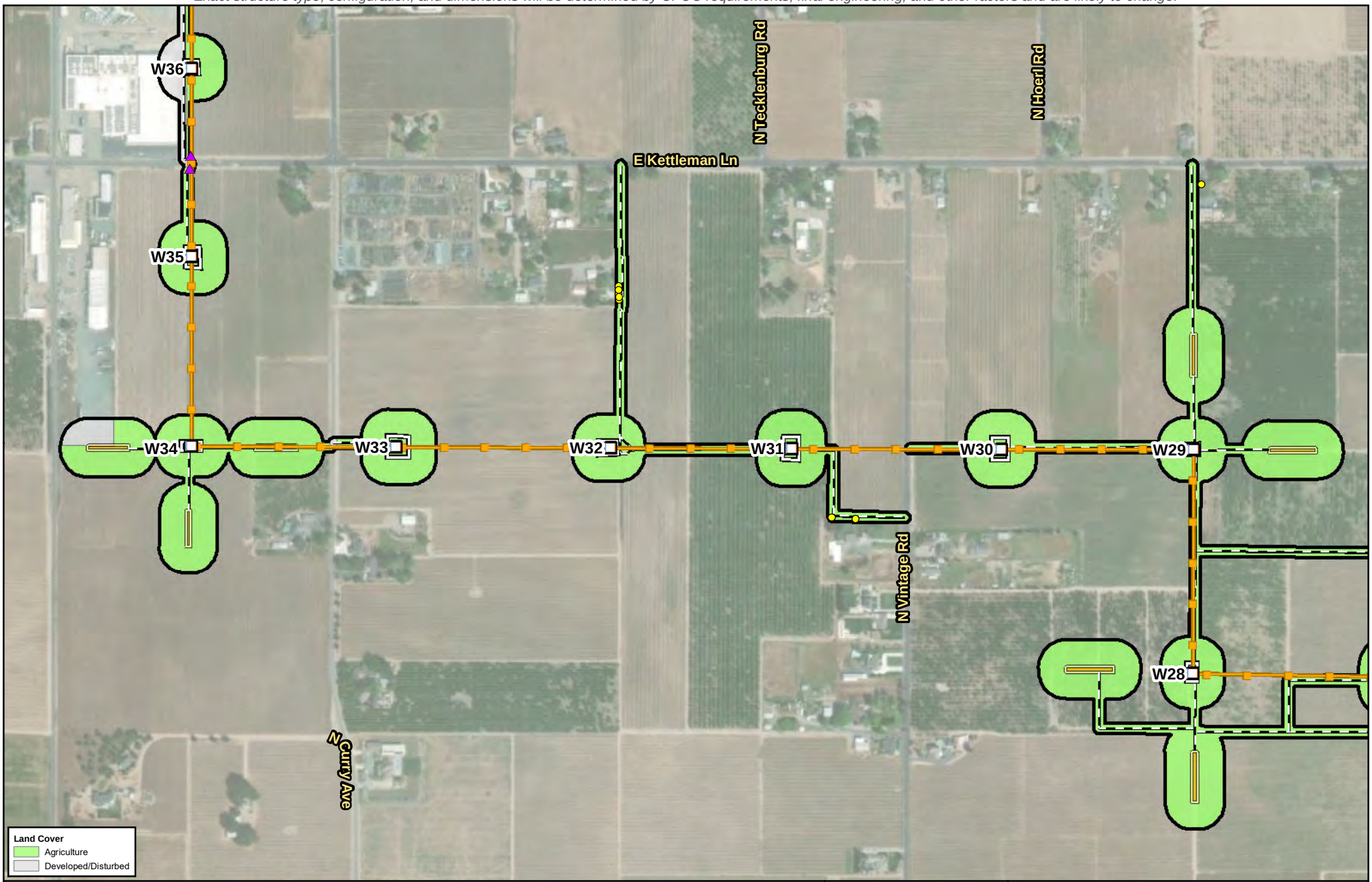

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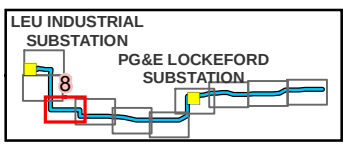

Source:
1) Esri World Imagery

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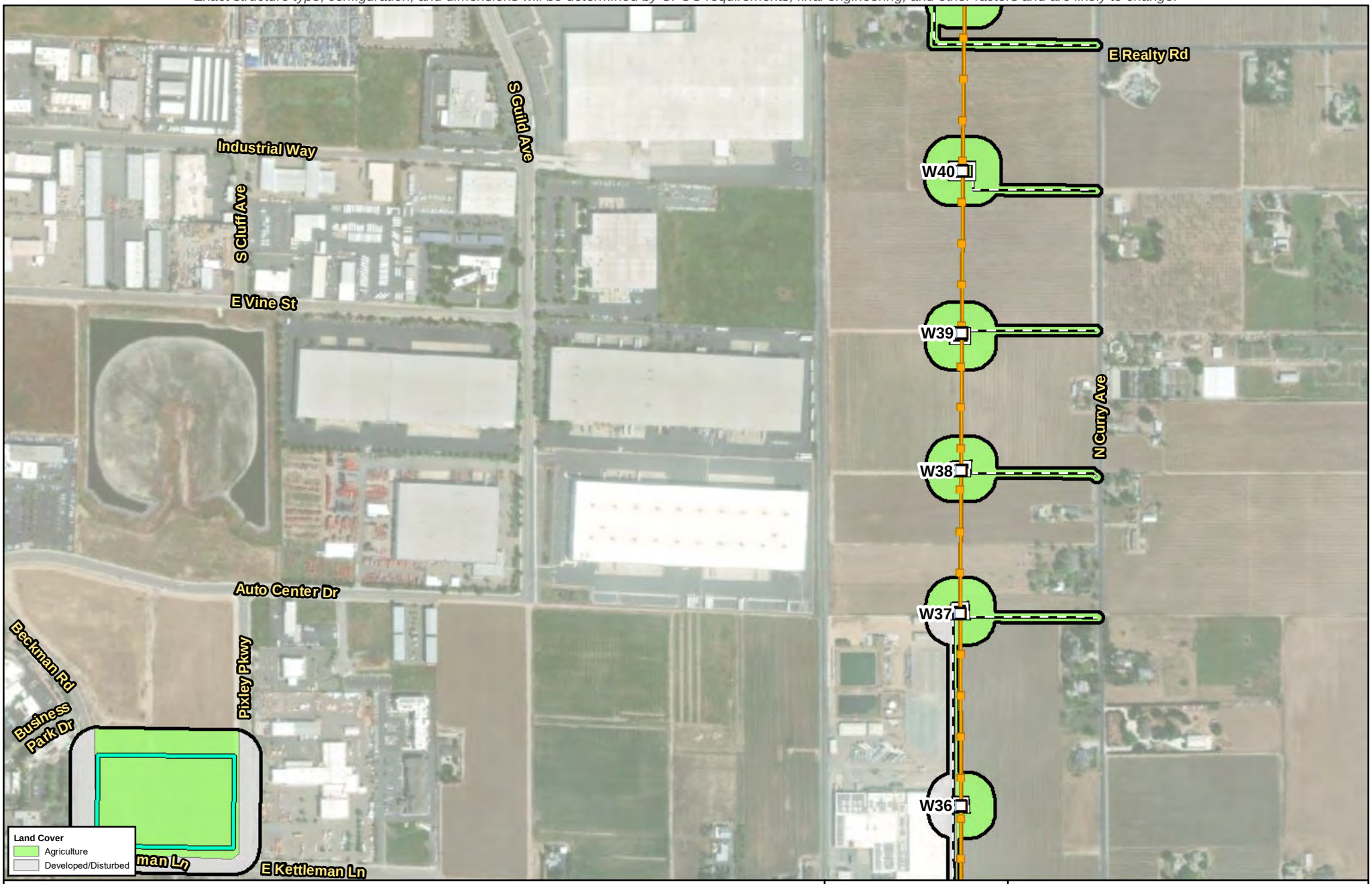

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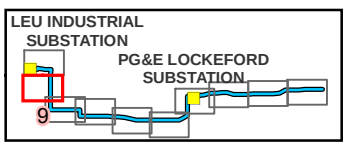

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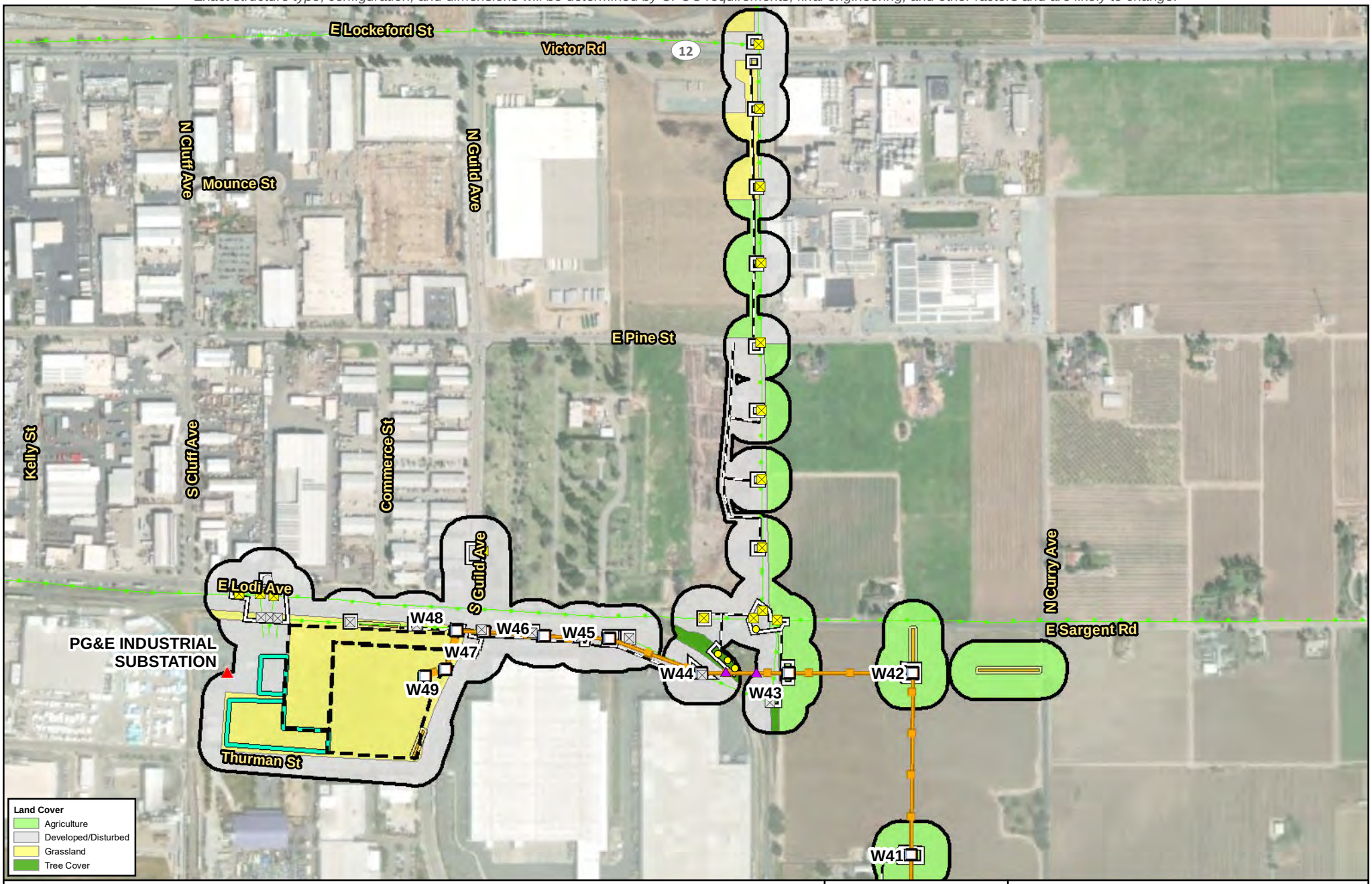

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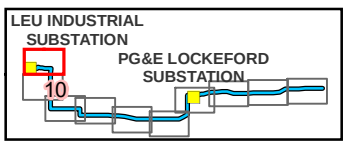

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FIGURE 5
Land Cover within the Biological Study Area
Page 10 of 10
Northern San Joaquin 230 kV Transmission Project

Appendix A
Special-Status Plants with the Potential to Occur in the Biological Study Area

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Table A-1. Special-status Plant Species Identified in the Records Searches and their Potential to Occur in the Biological Study Area

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Agrostis hendersonii	Henderson's bent grass	-	-	3.2	Valley and foothill grassland (mesic) and vernal pools.	Apr-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Arctostaphylos myrtifolia	Ione manzanita	T	-	1B.2	Chaparral and cismontane woodland.	Nov-Mar	Absent. No suitable habitat is present within the BSA.
Astragalus tener var. *tener*	alkali milk vetch	-	-	1B.2	Alkali playa, valley and foothill grassland, vernal pools. Low ground, alkali flats, and flooded lands. In annual grassland or in playas or vernal pools.	Mar-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA, as do alkali flats. There is one historic occurrence in Stockton, but the BSA does not have alkali resources or vernal pools for this species to grow (Calflora 2022). This species was not observed during the seasonally appropriate botanical surveys.
Atriplex cordulata var. *cordulata*	heartscale	-	-	1B.2	Saline soils, Alkaline scrub, Chenopod scrub, meadows and seeps, valley and foothill grassland.	Apr-Oct	Unlikely to occur. Scrubs are not present in the BSA, and although there are historic occurrences in the Stockton West quadrangle (Calflora 2022), suitable habitat has predominantly been converted to agricultural development. Additionally, saline soils suitable for this species are not present in the BSA. This species was not observed during the seasonally appropriate botanical surveys.
Azolla microphylla	Mexican mosquito fern	-	-	4.2	Marshes and swamps (ponds, slow water).	Aug	Absent. Marshes and swamps are not present in the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Blepharizonia plumosa	big tarplant	-	-	1B.1	Dry hills and plains in annual grassland. Clay to clay-loam soils; usually on slopes and often in burned areas.	Jul-Oct	Unlikely to occur. Calflora search results indicate a confirmed range within the BSA and one occurrence in the Stockton west quadrangle (Calflora 2022). However, suitable habitat such as slopes and burned areas are not present. Additionally, increasing agricultural development and urbanization has severely limited suitable habitat of this species. This species was not observed during the seasonally appropriate botanical surveys.
Brasenia schreberi	watershield	-	-	2B.3	Marshes and swamps (freshwater). This plant is strictly aquatic.	Jun-Sep	Absent. Marshes and swamps are not present in the BSA.
Brodiaea rosea	valley brodiaea	-	-	4.2	Old alluvial terraces; silty, sandy, and gravelly loam. Valley and foothill grassland (swales) and vernal pools.	Apr-May(Jun)	Unlikely to occur. Calflora search results indicate a confirmed range within the project site area and an occurrence in the Clements quadrangle (Calflora 2022). However, suitable habitat has predominantly been converted to vineyards and orchards, which do not support habitat requirements of this species. This species was not observed during the seasonally appropriate botanical surveys.
Calycadenia hooveri	Hoover's calycadenia	-	-	1B.3	Cismontane woodland and valley and foothill grassland.	Jul-Sep	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Carex comosa	bristly sedge	-	-	2B.1	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grassland.	May-Sep	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Castilleja campestris var. *succulenta*	succulent owl's-clover	T	E	1B.2	Occurs usually in wetlands, occasionally in non-wetlands. Habitat is vernal pools (often acidic). Occurs in vernal pools with a variety of characteristics including small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods. Vegetation communities include: valley grassland, foothill grassland, freshwater wetlands, wetland-riparian.	(Mar)Apr-May	Potential to occur. Although there are no CNDDB occurrences within 5 miles of the BSA, a reconnaissance survey conducted in early December of 2019 and an aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. This species was not found during the appropriately timed botanical surveys.
Centromadia parryi ssp. *rudis*	Parry's rough tarplant	-	-	4.2	Occurs in alkaline and vernally mesic soils in seeps, valley and foothill grassland, vernal pools, and sometimes roadsides.	May-Oct	Unlikely to occur. The BSA does not have alkali resources for this species to grow and there are no CNDDB occurrences within 5 miles of the BSA. This species was not observed during the seasonally appropriate botanical surveys.
Chloropyron palmatum	palmate-bracted bird's-beak	E	E	1B.1	Occurs in alkaline soils, grows in saline-alkaline soils in seasonally flooded lowland plains and basins at elevations of less than 500 feet. Associated plant species include iodine bush (*Allenrolfea occidentalis*), alkali heath (*Frankenia salina*), Great Valley gum plant (*Grindelia camporum*), and Parry's rough tarplant (*Centromadia parryi* ssp. *rudis*). Vegetation communities include: chenopod scrub, valley grassland, foothill grassland.	May-Oct	Absent. No suitable habitat is present within the BSA.
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	-	-	2B.1	Marshes and swamps (brackish, coastal, freshwater).	Jul-Sep	Absent. No marshes or swamps are present within the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Delphinium recurvatum	recurved larkspur	-	-	1B.2	Chenopod scrub, valley and foothill grassland, cismontane woodland. On alkaline soils; often in valley saltbrush or valley chenopod scrub.	Mar-Jun	Absent. Calflora search results indicate a possible range within the BSA and an occurrence in the Stockton East quadrangle (Calflora 2022). However, no suitable habitat or a confirmed range overlap is present.
Downingia pusilla	dwarf downingia	-	-	2B.2	Occurs in wetlands. Habitat is vernal pools (no acidic preference) and wet ditches. Vegetation communities include: foothill woodland, valley grassland, freshwater wetlands, wetland-riparian.	Mar-May	Unlikely to occur. Calflora search results indicate a possible range within the project site area, an occurrence in the Stockton East quadrangle, and the possible occurrence of suitable habitat. However, there are no CNDDB occurrences within 5 miles of the BSA. This species was not observed during the seasonally appropriate botanical surveys.
Eryngium pinnatisectum	Tuolumne button-celery	-	-	1B.2	Cismontane woodland, lower montane coniferous forest, and vernal pools.	May-Aug	Absent. No suitable habitat is present within the BSA.
Eryngium racemosum	Delta button-celery	-	E	1B.1	Riparian scrub. Seasonally inundated floodplains on clay.	Jun-Oct	Absent. Riparian scrub and floodplains do not exist in the BSA.
Extriplex joaquinana	San Joaquin spearscale	-	-	1B.2	Alkaline soils, chenopod scrub. meadows and seeps, playas, valley and foothill grassland.	Apr-Oct	Unlikely to occur. There is only marginally suitable habitat present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Gratiola heterosepala	Boggs Lake hedge-hyssop	-	E	1B.2	Found predominately growing in clay soils, marshes and swamps (lake margins). Vernal pools.	Apr-Aug	Absent. Marshes and swamps do not occur in the BSA. Additionally, the closest extant populations of this species occur in Solano and Sacramento counties (Calflora 2022).
Hesperevax caulescens	hogwallow starfish	-	-	4.2	Valley and foothill grassland (mesic clay) and vernal pools (shallow)	Mar-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Hibiscus lasiocarpos var. *occidentalis*	wooly rose-mallow	-	-	1B.2	Marshes and swamps (freshwater). Moist, freshwater-soaked river banks and low peat islands in sloughs; can also occur on riprap and levees.	Jun-Sep	Absent. Marshes and swamps are not present in the BSA. Additionally, this species was not observed during the seasonally appropriate botanical surveys.
Horkelia parryi	Parry's horkelia	-	-	1B.2	Chaparral and cismontane woodland.	Apr-Sep	Absent. No suitable habitat is present within the BSA.
Juncus leiospermus var. *ahartii*	Ahart's dwarf rush	-	-	1B.2	Valley and foothill grassland (mesic).	Mar-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Lasthenia ferrisiae	Ferris' goldfields	-	-	4.2	Vernal pools (alkaline, clay).	Feb-May	Absent. No suitable habitat is present within the BSA.
Lathyrus jepsonii var. *jepsonii*	delta tule pea	-	-	1B.2	Found in freshwater and brackish marshes; most often in ditches and along levees near Napa. Often found with *Typha*, *Aster lentus*, *Rosa californica*, *Juncus* spp., *Scripus* spp., etc. Usually on marsh and slough edges.	May-Jul	Absent. The closest recorded observations of this species occur in western Lodi and Stockton (Calflora 2022); however, suitable habitat such as marshland sloughs are not present in the BSA.
Legenere limosa	legenere	-	-	1B.1	Occurs below elevations of 610 meters in vernal pools and wetlands. Vegetation communities include: valley grassland, freshwater wetlands, wetland-riparian.	Apr-Jun	Unlikely to occur. There is only marginally suitable seasonal wetland habitat present in the BSA. There are no CNDDDB occurrences within 5 miles of the BSA. This species was not observed during the seasonally appropriate botanical surveys.
Lilaeopsis masonii	Mason's lilaeopsis	-	R	1B.1	Found in freshwater and brackish marshes and in riparian scrub habitats; found along the margins of Napa River	Apr-Nov	Absent. This species grows predominantly along the margins of Napa River (Calflora 2022).
Limosella australis	Delta mudwort	-	-	2B.1	Marshes and swamps (brackish, freshwater) and riparian scrub.	May-Aug	Absent. No suitable habitat is present within the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Navarretia myersii ssp. *myersii*	pincushion navarretia	-	-	1B.1	Vernal pools. Clay soils within non-native grassland.	Apr-May	Absent. This species predominantly occurs in the foothill grasslands of the Sierra Nevada (Calflora 2022).
Navarretia paradoxiclara	Patterson's navarretia	-	-	1B.3	Meadows and seeps.	May-Jun(Jul)	Absent. No suitable habitat is present within the BSA.
Orcuttia viscida	Sacramento Orcutt grass	E	E	1B.2	Occurs in wetlands. Habitat is vernal pools (often acidic). Vegetation communities include: valley grassland, freshwater wetlands, wetland-riparian.	Apr-Jul(Sep)	Absent. The closest extant populations occur in Placer, Sacramento, and El Dorado Counties outside of the BSA (Calflora 2022).
Ranunculus lobbii	Lobb's aquatic buttercup	-	-	4.2	Cismontane woodland, north Coast coniferous forest, valley and foothill grassland, and vernal pools.	Feb-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Sagittaria sanfordii	Sanford's arrowhead	-	-	1B.2	Occurs in wetlands, marshes and swamps (assorted shallow freshwater). Vegetation communities include freshwater wetlands, wetland-riparian.	May-Oct(Nov)	Potential to occur. Marginally suitable habitat is present in the BSA adjacent to aquatic resources such as creeks, canals, and ditches. There is one CNDDB occurrence within 5 miles of the BSA. This species was not found during appropriately timed botanical surveys.
Scutellaria galericulata	marsh skullcap	-	-	2B.2	Lower montane coniferous forest, meadows and seeps (mesic), and marshes and swamps.	Jun-Sep	Absent. No suitable habitat is present within the BSA.
Scutellaria lateriflora	side-flowering skullcap	-	-	2B.2	Meadows and seeps (mesic) and marshes and swamps.	Jul-Sep	Absent. No suitable habitat is present within the BSA.
Symphyotrichum lentum	Suisun marsh aster	-	-	1B.2	Found in brackish and freshwater marshes and swamps. Most often seen along sloughs with *Phragmites, Scripus, Rubus, Typha*, etc.	May-Nov	Unlikely to occur. Calflora search results indicate occurrences in the Stockton West, Stockton East, and Lodi South quadrangles (Calflora 2022). However, marshes and swamps are not present in the BSA.

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Trifolium hydrophilum	saline clover	-	-	1B.2	Occurs in marshes and swamps, vernal pools and valley and foothill grassland. Mesic, alkaline sites.	Apr-Jun	Absent. Most recent observations of this species are within the Suisun and San Pablo bays (Calflora 2022). Suitable habitat is not considered present in the BSA.
Tuctoria greenei	Greene's Tuctoria	E	R	1B.1	Vernal pools.	May-Jul(Sep)	Absent. This species has recorded occurrences in Stockton and Farmington in 1936 (Calflora 2022). However, this species is considered extirpated from the BSA because of increased agricultural development and urbanization.

[a]STATUS CODES

Federal Designations:
E = Federally Endangered
T = Federally Threatened

State Designations:

E = State Endangered
R = State Rare

CNPS Rare Plant Rank:

1B = Rare, threatened, or endangered in California and elsewhere
2B = Rare, threatened, or endangered in California, but more common elsewhere
3 = More information is needed
4 = Limited distribution

Threat Rank:

- 0.1 Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat)
- 0.2 Fairly threatened in California (20 to 80% of occurrences threatened/moderate degree and immediacy of threat)
- 0.3 Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

Appendix B
List of Plant Species Observed in the Biological Study Area During Surveys

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Table B-1. Plant Species Observed in the BSA During Surveys

Family	Scientific Name	Common Name	Native or Naturalized	Cal-IPC Rank
GYMNOSPERMS				
PINACEAE				
	Pinus radiata	Monterey pine	Native	
EUDICOTS				
ADOXACEAE				
	Sambucus nigra	black elderberry	Native	
APIACEAE				
	Foeniculum vulgare	fennel	Naturalized	Moderate
ALISMATACEAE				
	Sagittaria montevidensis	giant arrowhead	Native	
ARACEAE				
	Arum italicum	Italian lords and ladies	Naturalized	
	Lemna minor	smaller duckweed	Native	
	Wolffia sp.	duckweed	Native	
ASTERACEAE				
	Achyrachaena mollis	blow-wives	Native	
	Centaurea solstitialis	yellow star thistle	Naturalized	High
	Centromadia fitchii	spikeweed	Native	
	Cichorium intybus	chicory	Naturalized	
	Delairea odorata	cape ivy	Naturalized	High
	Erigeron bonariensis	flax-leaved horseweed	Naturalized	
	Erigeron canadensis	Canada horseweed	Native	
	Heterotheca grandiflora	telegraph weed	Native	
	Hypochaeris glabra	smooth cat's-ear	Naturalized	Limited
	Hypochaeris radicata	rough cat's-ear	Naturalized	Moderate
	Lactuca serriola	prickly lettuce	Naturalized	
	Leontodon saxatilis	hairy hawkbit	Naturalized	
	Logfia gallica	narrowleaf cottonrose	Naturalized	
	Matricaria discoidea	pineapple weed	Native	
	Pseudognaphalium luteoalbum	Jersey cudweed	Naturalized	
	Silybum marianum	milk thistle	Naturalized	Limited
	Sonchus asper	spiny snow thistle	Naturalized	
	Bignonia violacea	violet trumpet vine	Naturalized	
BORAGINACEAE				
	Amsinckia menziesii	fiddleneck	Native	
	Plagiobothrys canescens	valley popcornflower	Native	

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Family	Scientific Name	Common Name	Native or Naturalized	Cal-IPC Rank
BRASSICACEAE				
	Brassica nigra	black mustard	Naturalized	Moderate
	Capsella bursa-pastoris	Shepherd's purse	Naturalized	
	Lepidium nitidum	shining pepperweed	Native	
	Nasturtium officinale	watercress	Native	
	Raphanus sativus	radish	Naturalized	Limited
CAPRIFOLIACEAE				
	Lonicera japonica	Japanese honeysuckle	Naturalized	
CARYOPHYLLACEAE				
	Spergula arvensis	corn spurrey	Naturalized	
	Spergularia rubra	red sand-spurrey	Naturalized	
	Stellaria media	common chickweed	Naturalized	
CHENOPODIACEAE				
	Chenopodium album	Lamb's quarters	Naturalized	
	Salsola australis	Russian thistle	Naturalized	
CONVOLVULACEAE				
	Convolvulus arvensis	field bindweed	Naturalized	
EUPHORBIACEAE				
	Croton setiger	turkey-mullein	Native	
	Euphorbia maculata	spotted spurge	Naturalized	
FABACEAE				
	Acmispon americanus	American bird's foot trefoil	Native	
	Lupinus polyphyllus	bog lupine	Native	
	Medicago polymorpha	California burclover	Naturalized	Limited
	Trifolium dubium	little hop clover	Naturalized	
	Trifolium hirtum	rose clover	Naturalized	Limited
	Trifolium repens	white clover	Naturalized	
	Vicia villosa	hairy vetch	Naturalized	
FAGACEAE				
	Quercus engelmannii	Engelmann oak	Native	
	Quercus lobata	valley oak	Native	
GERANIACEAE				
	Erodium botrys	broadleaf filaree	Naturalized	
	Erodium moschatum	Musky stork's bill	Naturalized	
	Geranium dissectum	cutleaf geranium	Naturalized	Limited
JUGLANDACEAE				
	Juglans nigra	black walnut	Naturalized	

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Family	Scientific Name	Common Name	Native or Naturalized	Cal-IPC Rank
LAMIACEAE				
	Mentha pulegium	pennyroyal	Naturalized	Moderate
	Trichostema lanceolatum	vinegarweed	Native	
LYTHRACEAE				
	Lythrum hyssopifolia	hyssop loosestrife	Naturalized	Moderate
MALVACEAE				
	Malva parviflora	Cheeseweed mallow	Naturalized	
MONTIACEAE				
	Calandrinia menziesii	red maids	Native	
	Claytonia parviflora	miner's lettuce	Native	
MORACEAE				
	Morus alba	mulberry	Naturalized	
MYRSINACEAE				
	Lysimachia arvensis	scarlet pimpernel	Naturalized	
MYRTACEAE				
	Eucalyptus globulus	blue gum	Naturalized	Limited
OLEACEAE				
	Ligustrum japonicum	Japanese privet	Naturalized	
	Olea europaea	olive	Naturalized	Limited
ONAGRACEAE				
	Epilobium brachycarpum	annual fireweed	Native	
PHRYMACEAE				
	Erythranthe guttata	common monkeyflower	Native	
PLANTAGINACEAE				
	Plantago lanceolata	English plantain	Naturalized	Limited
POLYGONACEAE				
	Polygonum aviculare	knotweed	Naturalized	
	Rumex crispus	curly dock	Naturalized	Limited
PORTULACACEAE				
	Portulaca oleracea	common purslane	Naturalized	
RANUNCULACEAE				
	Ranunculus sceleratus	cursed crowfoot	Native	
ROSACEAE				
	Malus floribunda	Japanese flowering crabapple	Naturalized	
	Prunus avium	sweet cherry	Naturalized	
	Rosa californica	California rose	Native	
	Rubus armeniacus	Himalayan blackberry	Naturalized	High

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Family	Scientific Name	Common Name	Native or Naturalized	Cal-IPC Rank
RUBIACEAE				
	Galium aparine	common bedstraw	Native	
RUTACEAE				
	Geijera parviflora	wilga	Naturalized	
SALICACEAE				
	Salix babylonica	weeping willow	Naturalized	
	Salix lasiolepis	arroyo willow	Native	
	Populus fremontii	cottonwood	Native	
SCROPHULARIACEAE				
	Buddleja davidii	butterfly bush	Naturalized	Watch
SIMAROUBACEAE				
	Ailanthus altissima	tree of heaven	Naturalized	Moderate
VERBENACEAE				
	Verbena hastata	swamp verbena	Native	
ZYGOPHYLLACEAE				
	Tribulus terrestris	puncture vine	Naturalized	Limited
MONOCOTS				
CYPERACEAE				
	Cyperus eragrostis	nutsedge	Native	
	Eleocharis macrostachya	common spikerush	Native	
	Scirpus sp.	bulrush	Native	
JUNCACEAE				
	Juncus bufonius	toad rush	Native	
	Juncus xiphioides	Iris leaved rush	Native	
POACEAE				
	Arundo donax	giant reed	Naturalized	High
	Avena barbata	slender wild oat	Naturalized	
	Avena fatua	Wild oat	Naturalized	Moderate
	Briza minor	small quaking grass	Naturalized	
	Bromus diandrus	ripgut brome	Naturalized	Moderate
	Bromus hordeaceus	soft chess	Naturalized	Limited
	Bromus madritensis	foxtail chess	Naturalized	
	Bromus tectorum	cheatgrass	Naturalized	High
	Eleusine indica	goose grass	Naturalized	
	Elymus caput-medusae	Medusa head	Naturalized	High
	Festuca bromoides	brome fescue	Naturalized	
	Festuca myuros	rat-tail fescue	Naturalized	Moderate
	Festuca perennis	rye grass	Naturalized	Moderate
	Hordeum murinum	foxtail barley	Naturalized	Moderate

Preliminary and Subject to Change Based on CPUC Requirements, Final Engineering, and Other Factors

Family	Scientific Name	Common Name	Native or Naturalized	Cal-IPC Rank
	Hordeum murinum subsp. leporinum	hare barley	Naturalized	Moderate
	Phalaris lemmonii	Lemmon's canarygrass	Native	
	Poa annua	annual blue grass	Naturalized	
	Poa secunda	pine bluegrass	Native	
	Polypogon monspeliensis	rabbitsfoot grass	Naturalized	Limited
	Sorghum halepense	Johnsongrass	Naturalized	
	Triticum aestivum	common wheat	Naturalized	
THEMIDACEAE				
	Triteleia hyacinthina	white brodiaea	Native	
	Triteleia laxa	Ithuriel's spear	Native	
TYPHACEAE				
	Typha latifolia	broadleaf cattail	Native	

Notes:

* Special-status plant species

California Invasive Plant Council (Cal-IPC) Ranks:

High – These species have severe ecological impacts on physical processes. Most are widely distributed ecologically.

Moderate – These species have substantial and apparent, but generally not severe, ecological impacts. Ecological amplitude and distribution may range from limited to widespread.

Limited – These species are invasive, but their ecological impacts are minor. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

Watch – These species have been assessed as posing a high risk of becoming invasive in the future.

Appendix C
Representative Site Photographs



Photo 1. Representative photo of developed agricultural land cover in this photo depicting a vineyard underneath existing PG&E transmission lines, within the BSA, facing east; April 27, 2021.



Photo 2. *Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance vegetation within a culverted ditch adjacent to access road within the BSA, facing north; April 27, 2021.



Photo 3. Representative photograph of ruderal vegetation that is common along the margins of hardscape within the BSA. Vegetation of *Bromus* (*diandrus, hordeaceus*) – *Brachypodium distachyon* herbaceous semi-natural Alliance and *Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance can be observed in the background behind the fence. Facing southwest; May 11, 2021.



Photo 4. Bear Creek where it passes through the BSA, depicting a mixture of *Schoenoplectus* (*acutus, californicus*) Herbaceous Alliance (hardstem and California bulrush marshes), *Juncus* (*oxymeris, xiphioides*) Provisional Herbaceous Alliance (Iris-leaf rush seeps) vegetation facing northeast; April 28, 2021.



Photo 5. Representative photograph of vegetation within the *Lolium perenne* (*Festuca perennis*) Herbaceous Semi-Natural Alliance (perennial rye grass fields) with seaside barley (*Hordeum marinum*), foxtail barley (*Hordeum murinum*), soft chess (*Bromus hordeaceus*), and *Festuca* ssp. depicted here within the BSA, facing south; April 28, 2021.



Photo 6. Representative photograph depicting a potential location for the special-status species Sanford's arrowhead (*Sagittaria sanfordii*) in the BSA. This location is on the eastern side of the existing PG&E Lockeford Substation within a drainage. No special-status species were found within the BSA during surveys. Facing south; April 28, 2021.

Appendix C2
Northern San Joaquin 230 kV Transmission Project Aquatic Resources Delineation Report

Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Aquatic Resources Delineation Report

Final

May 2023

Pacific Gas and Electric Company



Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

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Acronyms and Abbreviations

°F	degrees Fahrenheit
APT	Antecedent Precipitation Tool
BSA	biological study area
CW	constructed watercourse
DD	drainage ditch
HUC	Hydrologic Unit Code
kV	kilovolt
LEU	Lodi Electric Utility
NHD	National Hydrography Dataset
NRCS	Natural Resources Conservation Service
NW	natural watercourse
NWI	National Wetland Inventory
OHWM	ordinary high water mark
PG&E	Pacific Gas and Electric Company
project	Northern San Joaquin 230 kV Transmission Project
SP	sample point
SR	State Route
SW	seasonal wetland
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey
USFWS	U.S. Fish and Wildlife Service

1. Introduction

Pacific Gas and Electric Company (PG&E) proposes the Northern San Joaquin 230 kilovolt (kV) Transmission Project (project) to provide a new 230 kV transmission system in northern San Joaquin County in central California. The purpose of the project is to increase electric reliability and accommodate forecasted load growth to electrical customers in northern San Joaquin County. The project includes activities by PG&E and the City of Lodi's Electric Utility (Lodi Electrical Utility or LEU). This project description summary includes PG&E's portion of the project and LEU's portion of the project. This report references PG&E's portion of the project or LEU's portion of the project in select sections. Refer to PG&E's project Proponent's Environmental Assessment for potential impact discussion by utility.

This report presents the results of an aquatic resource delineation that was completed for the project in 2021 and was prepared following the *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports and Updated Map and Drawing Standards* for the South Pacific Division Regulatory Program, prepared by the U.S. Army Corps of Engineers (USACE), Sacramento District (USACE 2016a, 2016b). Results and conclusions presented in this report are considered preliminary, pending verification by the Sacramento USACE Regulatory Branch. The project overview, location, environmental setting, and survey methods and results are provided in the following sections.

1.1 Project Overview

The project proposes to loop PG&E's existing overhead Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation and installing a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and a new switching station (PG&E Thurman Switching Station) at Lodi Electric Utility (LEU) Fred M. Reid Industrial Substation (LEU Industrial Substation) in Lodi, California. LEU will construct LEU Guild Substation, a new 230/60 kV substation, between LEU Industrial Substation and the new PG&E Thurman Switching Station. At LEU Guild Substation, the new 230 kV transmission line will terminate, and transformers will step down the power to 60 kV and connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured, including disconnecting from LEU's 60 kV system at LEU Industrial Substation. The PG&E 60 kV lines will be removed or reconfigured within their existing alignments.

PG&E will perform project-related work at four remote-end substations (Brighton, Bellota, Rio Oso, and Lodi), which are located in Folsom, Linden, Rio Oso, and Lodi, respectively, to update the system protection scheme.

The proposed project includes new or modified aboveground substations; switching station; microwave towers; Federal Communications Commission towers; and transmission, power, distribution/feeder, and telecommunication (optical ground and shield wires) lines. Belowground facilities or portions thereof include new and modified foundations, grounding grids, extended and relocated 12 kV lines, and telecommunication circuits at stations. Project activities will occur within new and existing right-of-way, along new proposed and existing access roads, and on PG&E property and City of Lodi property. Construction work areas and access roads will occur within existing, modified, or new rights-of-way, with some adjacent or nearby temporary construction work areas and access.

1.2 Project Location

The proposed project is within unincorporated areas of northeastern San Joaquin County, and partially within an industrial area of the City of Lodi (Figure 1 at the end of this report). Within the City of Lodi, the general plan land use designation and zoning is industrial with industrial and commercial business and

associated railroad lines on adjacent parcels. Major geographic features in the project area include the Mokelumne River, Bear Creek, State Route (SR) 99, SR 88, and SR 12.

A biological study area (BSA) for the project was established as a 250-foot-wide buffer around the proposed power line and all potential work areas (including new proposed structure locations, staging areas, and new proposed substations) and a 50-foot-wide buffer around proposed access roads (Figure 2). The BSA encompasses approximately 387 acres.

1.3 Site Restoration

The majority of the project area is located in developed and agricultural areas that are either paved or disturbed and free of vegetation, have urban landscaping, or are croplands. Work areas, whether vegetated or not, will be restored to preconstruction conditions, except where agriculture will not be replaced to support safe operation of the new 230 kV transmission lines. Vegetated areas disturbed by the project may include limited street or landscaped areas that would be replanted per agreement with the landowner.

At the excavation locations for new structures, excavated subsoil will be kept onsite and used as backfill if suitable to be used as such. Any remaining excavated soils will be managed appropriately, off hauled, and disposed of at an appropriate offsite location.

As part of the final construction activities, PG&E will restore all disturbed areas, restore landscaping or vegetation as necessary, and clean up the job site. The LEU portion of the project will not have disturbed areas requiring landscaping or vegetation restoration. LEU will repave as appropriate and clean up their job sites.

1.4 Project Schedule

The preliminary proposed schedule indicates that construction is targeted to start in approximately July 2026 and all construction of the project is estimated to be complete by approximately April 2029. The schedule may be subject to change depending upon permitting and approval time frames. Construction is anticipated to occur 6 days per week during daylight hours. This schedule accounts for expected weather conditions for a typical fall and winter, including rain and fog. Applicable city, county, state, federal, and railroad regulations, ordinances, and restrictions will be identified and complied with prior to and during construction.

1.5 Operations and Maintenance

Existing operation and maintenance (O&M) crews for both PG&E and LEU will add their new and modified transmission lines, power lines, and stations to their existing operation and maintenance activities in the area. No changes to existing operation and maintenance crew size are anticipated as a result of this project. PG&E O&M activities will be covered by its *San Joaquin Valley Operation and Maintenance Habitat Conservation Plan* (SJVHCP). PG&E will implement SVHCP avoidance and minimization measures when conducting Inspections (O&M activity E2) and Electrical System Tower Replacement or Repair (O&M activity E6) (Jones & Stokes 2006).

2. Environmental Setting

2.1 Regional Setting

Beginning in 1992, the U.S. Forest Service has worked to develop a consistent approach to ecosystem classification and mapping at multiple geographic scales. The goal is to develop a stratification system for progressively smaller areas of increasingly uniform ecological potentials based on climate, physiography, water, soils, air, hydrology, and potential natural communities. This project is located within the Great Valley Section of the California Dry Steppe Province. The Project is within the Hardpan Terraces and Sodic Claypan Terraces subsections (Miles and Goudey 1997).

Geomorphology within the Hardpan Terraces subsection is described as very gently to gently sloping terraces and small areas of floodplain and alluvial fans along streams that cross from mountains to reach the Sacramento and San Joaquin Rivers. The Sodic Claypan Terraces are described as nearly level to gently sloping late Pleistocene and recent alluvial fans from the southern end of the northern California Coast Ranges. Alluvium within these subsections is formed from volcanic, granitic, sedimentary, and metamorphic rock sources. Fluvial erosion and deposition are the main geomorphic processes within the region (Miles and Goudey 1997).

The regional topography generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet at the western end of the project.

2.2 Project Setting

2.2.1 Land Use

Land use in northeastern San Joaquin County is predominantly agricultural with retail wineries, as well as rural and semi-rural residential development outside of the City of Lodi, and small concentrated areas of industrial and commercial business along transportation corridors. Agriculture land use is primarily wine grapes with some fruit and nut orchards, grain fields, and cattle grazing.

2.2.2 Vegetation Types and Land Cover

The majority of upland habitat observed throughout the BSA is either hardscaped (pavement and sidewalks) or otherwise developed/landscaped, agriculture, or is disturbed habitat consisting of primarily ruderal or non-native species. Representative vegetation alliances from the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009) are referenced and discussed in the following sections.

2.2.2.1 Wetlands

Eight depressional seasonal wetlands were delineated within the BSA along the proposed PG&E 230 kV transmission line. Vegetation within the wetlands consisted of seaside barley (*Hordeum marinum*), sparse popcornflower (*Plagiobothrys* sp.), annual hairgrass (*Deschampsia danthonioides*), spikerush (*Eleocharis* sp.), and tall flatsedge (*Cyperus eragrostis*). More details on these wetlands can be found in Section 4.2.1.

2.2.2.2 Other Waters

Other waters within the BSA include natural watercourses such as Bear Creek and Paddy Creek, constructed watercourses, and drainage and irrigation ditches. Where emergent vegetation exists, the predominant natural plant communities are *Schoenoplectus* (*acutus, californicus*) Herbaceous Alliance

(hardstem and California bulrush marshes), *Juncus* (*oxymeris*, *xiphioides*) Provisional Herbaceous Alliance (irisleaf rush seeps), and *Lolium perenne* Herbaceous Semi Natural Alliance (perennial rye grass fields). Vegetation within the creeks and along the creek banks is variable, but predominantly includes species such as bulrush (*Schoenoplectus* ssp.), perennial ryegrass (*Festuca perennis* [*Lolium perenne*]), irisleaf rush (*Juncus xiphioides*), and curly dock (*Rumex crispus*). More details on these aquatic features can be found in Section 4.2.2.

2.2.2.3 Riparian

Sparse riparian vegetation occurs along the banks of Bear Creek, Paddy Creek, and a realigned tributary to Paddy Creek, where these features bisect the proposed PG&E 230 kV transmission line. In general, the riparian corridors within the BSA are narrow, confined by steep slopes, and sparsely vegetated. Riparian vegetation within the BSA consists mostly of non-native grasses, sparse willows (*Salix* ssp.) along Bear Creek and Paddy Creek, and a few small, planted oaks (*Quercus agrifolia*) and black walnut trees (*Juglans* sp.) along the realigned tributary to Paddy Creek.

2.2.2.4 Grassland

Annual grasslands occur throughout the BSA, in pastures, along roadsides, and in other undeveloped, disturbed areas. Annual grassland can most readily be classified as annual brome grasslands within the *Bromus* (*diandrus*, *hordeaceus*) – *Brachypodium distachyon* Herbaceous Semi-Natural Alliance and *Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance, and *Lolium perenne* (*Festuca perennis*) Herbaceous Semi-Natural Alliance (perennial rye grass fields). Where these alliances occur, rip-gut brome (*Bromus diandrus*), seaside barley, foxtail barley (*Hordeum murinum*), soft chess (*Bromus hordeaceus*), and perennial ryegrass are dominant or co-dominant with other non-natives such as black mustard (*Brassica nigra*), fennel (*Foeniculum vulgare*), and bristly ox-tongue (*Helminthotheca echioides*) in the herbaceous layer. Additionally, *Brassica nigra* – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance occurs within annual grasslands in low cover, most commonly in close proximity to roadsides and other developed areas.

2.2.2.5 Agriculture

Agricultural monocultures of almond, cherry, and peach (*Prunus* spp.), as well as walnuts (*Juglans* spp.), vineyards, and corn (*Zea mays*), were observed in the large portions of developed agricultural land throughout the BSA.

2.2.2.6 Ruderal

Ruderal habitat is common in highly disturbed areas, including along roadways, at the edges of hardscape development, and at other infrastructure areas such as levees and railroads. Ruderal habitat is characterized by a lack of vegetation or is dominated by non-native or invasive plant species such as Italian thistles (*Carduus* spp.), yellow starthistle (*Centaurea solstitialis*), black mustard, foxtail barley, filaree (*Erodium botrys*), perennial pepperweed (*Lepidium latifolium*), and stinkwort (*Dittrichia graveolens*), among others.

Brassica nigra – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance (upland mustards or starthistle fields) also is prevalent around the ruderal margins of the concrete hardscapes along creek banks and levees.

2.2.2.7 Developed/Disturbed

Developed areas include existing paved roadways and parking lots, railroad areas, residential, commercial, and industrial development, and areas where vegetation is regularly cleared. These areas generally lack vegetation entirely or have only scattered weedy grasses and forbs. The developed area also includes a portion of the Lodi Memorial Park and Cemetery located northeast of the intersection of East Lodi Avenue and South Guild Avenue that consists of gravestones, mowed grass, and a large stand of trees. The cemetery is bordered by a fence.

2.2.3 Geology and Soils

Soils information for the BSA was obtained from the Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2022a) as well as the Official Soil Series Descriptions (NRCS 2022b). Figure 3 presents the soil types within the BSA and Table 1 presents additional information about the mapped soil series.

2.2.4 Climate and Precipitation

The regional climate is characterized by mild winters and hot, dry summers. Based on long term (1893 to 2015) data collected at the Lodi Cooperative Observer Network Station (Station 045032), the average annual rainfall is approximately 17 inches, occurring between November and March. Average monthly temperatures range from a low of 37 degrees Fahrenheit (^{o}F) in January to a high of 92°F in July (WRCC 2021).

2.2.5 Hydrology

The majority of the BSA is located within the Bear Creek watershed (Hydrologic Unit Code [HUC] 1804000304) and Middle River-San Joaquin River watershed (HUC 1804000309), within the larger San Joaquin Delta watershed (HUC 18040003). The Bear Creek watershed drains approximately 81,214 acres, while the Middle River-San Joaquin River watershed drains 135,876 acres. Collectively, these watersheds drain to the San Joaquin River and then to San Pablo Bay.

Regionally, streams drain to the Sacramento or San Joaquin Rivers, or to closed basins in the San Joaquin Valley. All but the larger streams are dry during the summer. There are no lakes in the vicinity of the BSA, but temporary ponding in vernal pools on older Pleistocene terraces or on older alluvial fans was historically common (Miles and Goudey 1997). Much of the natural hydrology in the vicinity of the project has been altered by channel realignments and diversions for irrigation and other water control measures. In addition, the expansion of developed and agricultural land uses and associated grading have greatly altered the distribution and function of seasonal wetlands and swales.

The dominant hydrologic features within the BSA include intermittent Paddy Creek and perennial Bear Creek, as well as constructed irrigation canals and ditches. Surface hydrology within the BSA is influenced primarily by stormwater runoff into drainage channels, some of which then drain to larger linear features. Paddy Creek drains westward to Bear Creek, which continues flowing to the southwest. Bear Creek outlets into Pixley Slough approximately 9 miles southwest of the project BSA, which then drains to the San Joaquin River.

Table 1. Mapped Soil Series within the BSA and Vicinity

Type / Series	Texture	Landscape Position and Parent Material	Drainage and Permeability	Hydric Soil?
Acampo	Sandy loam	Acampo soils are on low fan terraces. The soils formed in alluvium derived from granite.	Moderately well drained; slow runoff; moderately rapid permeability	No
Archerdale	Very fine sandy loam	Archerdale soils are on low fan terraces and alluvial fans. The soils formed in alluvium from mixed rock sources.	Well drained; slow runoff; slow permeability	No
Bruella	Sandy loam	Bruella soils are on low terraces and fans. They formed in alluvium derived mainly from granitic rock sources.	Well and moderately well drained; slow runoff; moderately slow permeability (hard substratum phase has slow permeability below a depth of 40 inches); some areas are subject to rare flooding	No
Cometa	Sandy loam	Cometa soils are on gently sloping and undulating, slightly dissected older stream terraces. The soils formed in alluvium from granitic rock sources.	Moderately well or well drained; slow to medium runoff; very slow permeability	No
Kingdon	Fine sandy loam	Kingdon soils are on low fan terraces. The soils formed in alluvium derived mainly from granitic rock sources.	Moderately well drained; slow runoff; moderate permeability	No
Montpellier-Cometa Complex	Coarse sandy loam	Montpellier-Cometa Complex soils are on fan remnants. The soils formed from alluvium derived from granitic rock.	Well drained; high runoff	No
Rocklin	Sandy loam/ Fine sandy loam	Rocklin soils are on nearly level to rolling dissected terraces of fan remnants. The soils formed in old alluvium from granitic rock sources.	Well drained; very slow to medium runoff; moderate permeability above cemented material but very slow to slow below	No
San Joaquin	Sandy loam/ Loam	San Joaquin soils are on hummocky, nearly level to undulating terraces. They formed in alluvium from mixed but mainly granitic rock sources.	Well and moderately well drained; medium to very high runoff; very slow permeability; some areas are subject to rare or occasional flooding	No
Tokay and Tokay-Urban Land Complex	Fine sandy loam	Tokay soils are on low fan terraces. The soils formed in alluvium derived mainly from granitic rock sources.	Well drained; slow runoff; moderately rapid permeability	No
Tujunga	Loamy sand	Tujunga soils are on alluvial fans and floodplains. The soils formed in alluvium weathered from granitic sources or similar.	Somewhat excessively drained; negligible to low runoff; high saturated hydraulic conductivity; flooding is none to frequent	No

Source:
Web Soil Survey 2.0 National Cooperative Soil Survey (NRCS 2022a)

3. Methods

3.1 Prefield Investigation

General information on climate, vegetation, soils, hydrology, and existing wetlands was reviewed before the field survey. The following materials were included in this data review:

- NRCS Web Soil Survey Soil maps and descriptions (NRCS 2022a and 2022b) (Figure 3)
- United States Geological Survey (USGS) topographic quadrangle maps (Figure 1)
- USGS National Hydrography Dataset (NHD) (USGS 2022) (Figure 4)
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (USFWS 2022) (Figure 4)
- Satellite imagery (Google Earth 2022)

3.2 Field Survey

The aquatic resource delineation survey was conducted on April 27, April 28, and May 11, 2021, by Applied Technology and Sciences wetland ecologist Russell Huddleston and Jacobs biologists Mia Marek, Kyle Brown, and Stephanie Owens. A follow-up site survey was conducted on August 11, 2022, by Mia Marek and Stephanie Owens to assess the BSA where it was expanded and survey for potentially jurisdictional aquatic resources within the additional work areas. The aquatic resource delineation was limited to the approximately 387-acre BSA. The aquatic resource delineation survey included all potentially jurisdictional aquatic features, including constructed channels, intermittent and perennial creeks, depressional wetlands, and wet ditches/swales within the BSA. Where the BSA was not safely accessible or extended outside of parcels with approved permit to enter, surveys were conducted visually from accessible areas, along with a review of aerial images, public databases, and available topographic data. Specific survey methodology for these areas is provided in the following sections.

The aquatic resource delineation survey methodology followed the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), the ordinary high water mark (OHWM) *Regulatory Guidance Letter No. 05-05* (USACE 2005), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region Version 2.0* (USACE 2008), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Lichvar and McColley 2008), and the *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Curtis and Lichvar 2010). Wetland indicator statuses for plants were taken from *The National Wetland Plant List*, version 3.4 (USACE 2018).

The locations of wetland sample points, OHWM transects, and the boundaries of aquatic resources were mapped in the field with a global positioning system receiver with submetric accuracy. Several wetland sample points were collected to document the absence of aquatic features mapped by the NWI or NHD (sample point [SP]1x to SP5x). Geographic information system software (ArcGIS 10.5) then was used to process the collected geodata for developing aquatic resource maps. Cowardin classification codes were assigned to aquatic resources based on guidance from Cowardin et al. (1979).

An irrigation ditch that runs parallel to the access route and partially intersects the project footprint at PG&E structure W9 was observed during the aquatic resource delineation survey on August 11, 2022, at which time it was being used to irrigate a corn crop. The irrigation ditch appears to be seasonally graded and filled, along with the adjacent crop fields when not in use. The irrigation ditch was not apparent during

the 2021 aquatic resource delineation surveys; however, the faint signature of the ditch is intermittently visible in aerial images going back several years (Google Earth 2022). While this ditch is presumed to be nonjurisdictional, if it is present during construction, it will be avoided. Placement of this structure will be coordinated with the landowner during final design and construction planning to ensure impacts to this ditch are avoided. The locations of two PG&E proposed structures (W13 and W25) were refined after field surveys were completed and did not impact the results of the survey. The delineation figure and results presented in this report reflect the updated pole locations.

3.2.1 Identification of Wetlands

The USACE uses the three-parameter approach (vegetation, soils, and hydrology) to determine the presence of wetlands. As a general rule, under this method, evidence of a minimum of one positive indicator for each parameter must be found (under normal circumstances and in nonproblem areas) to make a positive wetland determination. Wetland data points were collected according to USACE standards where apparent vegetation, hydrology patterns, and soil moisture gradients indicated that there is the potential for wetlands to occur. Wetland determination data forms are included in Appendix A.

3.2.2 Identification of Other Waters of the U.S.

Riverine aquatic resources were delineated based on guidance provided in USACE *Regulatory Guidance Letter 05-05* (USACE 2005) and *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Lichvar and McColley 2008). The following physical characteristics were considered when making OHWM determinations: (1) natural line impressed on the bank, (2) shelving, (3) changes in the character of the soil, (4) destruction of terrestrial vegetation, (5) wracking, (6) vegetation matted down, bent, or absent, (7) sediment sorting, (8) leaf litter disturbed or washed away, (9) scour, (10) deposition, (11) bed and banks, (12) water staining, and (13) changes in plant community or cover. OHWM data sheets are included in Appendix A.

4. Results

4.1 Site Conditions at the Time of the Survey

The USACE Antecedent Precipitation Tool (APT) was used to define precipitation conditions over the period of time preceding the 2021 delineation survey, and data were collected for a location at the approximate center of the project alignment. Regional precipitation in the months preceding the 2021 survey was considered to be drier than normal based on the APT data (Table 2) and the data, according to the Palmer Drought Severity Index, indicate extreme drought conditions (Dai et al. 2019). The drought conditions observed at the time of the surveys was not considered a survey limitation, as wetland indicators and indication of flow regimes (OHWM) were still apparent and discernible to the degree needed to accurately map aquatic resources.

Table 2. APT Table for Biological Survey Area: April 2021

Month	Total Observed	30th Percentile	70th Percentile	Condition[a]	Condition Weight Factor[b]	Month Weight Factor	Product[c]
February	2.44	1.58	4.35	Normal	2	1	2
March	1.15	1.71	3.12	Dry	1	2	2
April	0.00	0.82	2.02	Dry	1	3	3
Sum[d]							**7**

Source: APT tables (USACE 2022).

Note:

Data presented is in inches.

[a] If Total (Observed) is between 30th percentile and 70th percentile values, Condition = Normal; if Total (Observed) is less than 30th percentile, Condition = Dry; if Total (Observed) is more than 70th percentile, Condition = Wet.

[b] Dry = 1; Normal = 2; Wet = 3.

[c] Product = Condition Weight x Month Weight

[d] A sum of 6 to 9 is drier than normal; 10 to 14 is normal; 15 to 18 is wetter than normal.

Paddy Creek was dry at the time of the delineation, and Bear Creek had only isolated areas of standing water, with no apparent flow. The drier-than-normal conditions observed are likely the result of the drought conditions during the time of the survey. Shallow surface water was observed in some constructed irrigation channels.

4.2 Aquatic Resources

The field delineation identified a total of eight seasonal wetlands comprising approximately 0.200 acre, approximately 0.247 acre (approximately 359 linear feet) of natural watercourses (1 perennial and 1 intermittent stream), approximately 0.545 acre (approximately 2,775 linear feet) of constructed watercourses, approximately 0.127 acre (approximately 1,805 linear feet) of drainage ditches, and approximately 0.152 acre (approximately 1,654 linear feet) of irrigation ditch in the BSA. Table 3 presents an overview of the types and amounts of potential jurisdictional waters in the BSA, and descriptions of the delineated features are presented in the following paragraphs. The delineated aquatic resources are shown in Figure 5. USACE wetland and OHWM data sheets are presented in Appendix A, and representative photographs are presented in Appendix B.

4.2.1 Wetlands

A total of eight depressional seasonal wetlands were delineated within the BSA (Table 3, Figure 5). These wetlands are shallowly concave basins that may fill with water during wet winter months and are dry for the remainder of the year. All seasonal wetlands were dry at the time of the field survey. All of the basins were moderately to very degraded or disturbed as a result of adjacent land use, and none represent vernal pool habitat. Wetland data sample sheets can be found in Appendix A, and representative site photos can be found in Appendix B.

4.2.2 Other Waters

4.2.2.1 Natural Watercourses

Natural watercourses within the BSA include Bear Creek and Paddy Creek. Bear Creek was mostly dry at the time of the survey, with areas of standing water. Paddy Creek was entirely dry. Only small portions of these waters occur within the project area, totaling approximately 0.246 acre and 3 approximately 59 linear feet. OHWM data sheets can be found in Appendix A, and representative site photos can be found in Appendix B.

4.2.2.2 Constructed Watercourses

Three constructed watercourses were delineated within the BSA, including two realigned tributaries to Paddy Creek and an irrigation canal constructed in uplands. Constructed watercourses delineated within the BSA total approximately 0.545 acre and approximately 2,775 linear feet. The realigned tributaries to Paddy Creek had some standing water at the time of the survey. OHWM data sheets can be found in Appendix A, and representative site photos of the drainage ditches can be found in Appendix B.

4.2.2.3 Drainage Ditches

Seven drainage ditches were observed within the BSA and appear to flow or convey water in direct response to storm events. These features are not associated with existing streams or realigned tributaries. These drainages do not appear to convey a protracted water supply from groundwater, seepage, or other sources. Geomorphic indicators used in the delineation of drainage ditches included break in slope and debris deposits. Representative site photos of the drainage ditches can be found in Appendix B.

4.2.2.4 Irrigation Ditch

One irrigation ditch (ID-1) was observed within the BSA. The irrigation ditch is an earthen feature that appears to be maintained (excavated) annually during the growing season and is not readily apparent the remainder of the year. The irrigation ditch appears to convey flow from constructed watercourse 3 (CW-3) to cornfields (Figure 5). No indicators of active surface hydrology or of an OHWM were apparent during the 2021 aquatic resource delineation surveys. A constructed (excavated) OHWM and flowing surface water was apparent during the August 11, 2022, survey, demonstrating the seasonally excavated nature of the ditch. Similarly, the feature is only intermittently visible in historic aerial imagery (Google Earth 2022).

Table 3. Aquatic Resources Delineated within the Biological Study Area

Feature ID	Cowardin Code[a]	Latitude/[a] Longitude	Approxi-mate Area (acres)	Length (linear feet)	Figure 5 Mapbook Page	Description
WETLANDS						
Seasonal Wetlands						
SW-1	PEM	38.120823/ -121.101059	0.005	--	2	Seasonal wetland SW-1 is a shallow depressional seasonal wetland adjacent to a proposed access road. Wetland basin dominated by seaside barley. Facultative (FAC). Feature extends to the west outside of the BSA.
SW-2	PEM	38.121409/ -121.102745	0.045	--	2	Seasonal wetland SW-2 is a shallow seasonal wetland swale near new proposed pole E5 that appears to have been historically connected to a broader wetland-swale complex. Wetland basin is dominated by seaside barley. Feature extends to the southwest outside of the BSA.
SW-3	PEM	38.121224/ -121.105933	0.009	--	2	Seasonal wetlands SW-3, 4, 5, and 6 are all shallow seasonal wetland depressions that appear to have been historically connected hydrologically through a network of wetland-swale complexes. The wetland basins are dominated by seaside barley. Sparse popcornflower (*Plagiobothrys* sp.), a Facultative Wet (FACW) or Obligate (OBL) wetland plant, occurs within the basin centers. The wetland swale complex extends to the south and west, outside of the BSA.
SW-4	PEM	38.121315/ -121.105989	0.002	--	2	
SW-5	PEM	38.121126/ -121.106146	0.004	--	2	
SW-6	PEM	38.121216/ -121.106555	0.032	--	2	
SW-7	PEM	38.121695/ -121.110017	0.076	--	2	Seasonal wetland SW-7 is a shallow depressional seasonal wetland that was inaccessible at the time of the survey and was digitized using aerial imagery and topographic signatures. Dominant species include seaside barley and annual hairgrass (*Deschampsia danthonioides*, FACW).
SW-8	PEM	38.119253/ -121.121876	0.027	--	3	Seasonal wetland SW-8 is a shallowly depressed mesic meadow that was inaccessible at the time of the survey and was digitized using aerial imagery and topographic signatures. The wetland feature occurs adjacent to the proposed access route. The wetland is dominated by sprikerush (*Eleocharis* sp., OBL) and tall flatsedge (*Cyperus eragrostis*, FACW).
Approximate Total Wetlands			***0.200***	--		

Feature ID	Cowardin Code[a]	Latitude/[a] Longitude	Approxi-mate Area (acres)	Length (linear feet)	Figure 5 Mapbook Page	Description
OTHER WATERS						
Natural Watercourses						
NW-1 (Paddy Creek)	PEM1Cx	38.119775/ -121.147669	0.041	129	5	Paddy Creek is an intermittent tributary to Bear Creek and was dry at the time of the survey. The creek has been diverted for irrigation along its extent. Where it passes through the BSA, the OHWM of Paddy Creek is approximately 30 feet wide, and top of bank is approximately 100 feet wide, extending outside the limits of the BSA. Tall flatsedge and stands of bulrush (*Schoenoplectus* sp.) occur within the creek channel, transitioning to non-native annual grasses above the OHWM. The channel substrate is sandy, with some soil cracking, sediment deposits, and flattened vegetation apparent, evidence of past flow events.
NW-2 (Bear Creek)	R2UBHx	38.107809/ -121.173529	0.205	230	8	Bear Creek is a perennial tributary to Pixley Slough and the San Joaquin River and was mostly dry at the time of the survey. Some areas of wetted soil and shallow ponding were observed. Where it passes through the BSA, The OHWM of Bear Creek is approximately 40 feet wide, with a top of bank approximately 100 feet wide. Stands of bulrush occur throughout the channel and transition to non-native annual grasses upslope of the OHWM. The substrate is a silty sand, with sediment/silt deposits, algae growth, and flattened vegetation apparent, evidence of past flow events.
Approximate Total Natural Watercourse			***0.247***	***359***		
Constructed Watercourses						
CW-1	R5UBFx	38.119906/ -121.146208	0.079	688	5	Constructed watercourse CW-1 is an irrigation channel constructed in uplands that drains to Paddy Creek. The feature is not mapped by the NHD or NWI. Areas of standing water were observed during the survey, approximately 6 to 12 inches deep in spots. Where it passes through the BSA, the OHWM is approximately 4 to 6 feet wide. Dominant vegetation observed along the channel banks includes tall flatsedge, curly dock, and non-native annual grasses.

Feature ID	Cowardin Code[a]	Latitude/[a] Longitude	Approxi-mate Area (acres)	Length (linear feet)	Figure 5 Mapbook Page	Description
CW-2	R5UBFx	38.117454/ -121.158468	0.200	1,689	6	Constructed watercourse CW-2 is an intermittent, realigned tributary to Paddy Creek. The NHD identifies CW-2 as a blueline stream and the NWI identifies the feature as riverine, perennial, and excavated. Small areas of very shallow ponding were observed during the survey. The OHWM ranges from approximately 4 to 10 feet wide, and the top of bank is approximately 15 feet wide. Within the OHWM, the channel is largely devoid of vegetation, with water-stained leaves, algae, and faint wracking apparent. A sparse riparian corridor extends along the extent of the watercourse within the BSA with willow (*Salix* sp.), coast live oak (*Quercus agrifolia*), and black walnut (*Juglans* sp.). Herbaceous vegetation within the riparian corridor is dominated by tall flatsedge, cheeseweed (*Malva parviflora*), curly dock (*Rumex crispus*) and non-native annual grasses.
CW-3	R5UBFx	38.109298/ -121.166421	0.266	398	8	Constructed watercourse CW-3 is an excavated, soil-bottom irrigation channel that is connected to Paddy Creek by a mechanical release valve. The NHD identifies CW-3 as a blueline stream, and the NWI identifies the feature as riverine, perennial, and excavated. Water was present in the channel during the survey, although no flow was apparent. Where it passes through the BSA, the OHWM is approximately 25 feet wide. There is no vegetation below the OHWM. Numerous red-eared sliders (*Trachemys scripta elegans*) were observed within the channel.
Approximate Total Constructed Watercourse			***0.545***	***2,775***		
Drainage Ditches						
DD-1	R6	38.119600/ -121.150779	0.010	83	5	Drainage ditch DD-1 is an excavated roadside feature that is approximately 6 feet wide and appears to drain surface flows away from the roadside. The ditch is dominated by cattails (*Typha* sp.).
DD-2	R6	38.120523/ -121.150768	0.05	544	5	Drainage ditches DD-2 and DD-3 are excavated roadside features that appear to convey surface flows away from the road and adjacent agriculture areas. They both range from approximately 2 to 4 feet wide.
DD-3	R6	38.120382/ -121.150986	0.031	681	5	
DD-4	R6	38.119540/ -121.138236	0.009	78	4	Drainage ditch DD-4 is an approximately 5-foot-wide excavated feature that appears to drain surface flows away from the adjacent agriculture areas.

Feature ID	Cowardin Code[a]	Latitude/[a] Longitude	Approxi-mate Area (acres)	Length (linear feet)	Figure 5 Mapbook Page	Description
DD-5	R6	38.120257/ -121.117227	0.001	52	3	Drainage ditch DD-5 is an excavated roadside ditch that appears to convey surface flow away from roadways and agricultural areas.
DD-6	R6	38.117269/ -121.159833	0.016	230	6	Drainage ditch DD-6 is an approximately 3-foot-wide excavated feature that appears to convey surface flow away from the detention pond within PG&E Lockeford Substation, draining to CW-2.
DD-7	R6	38.116884/ -121.160284	0.01	137	6	Drainage ditch DD-7 is an approximately 3-foot-wide excavated roadside feature that appears to convey surface flow away from the roadway and PG&E Lockeford Substation. The feature drains to CW-2.
Approximate Total Drainage Ditches			***0.127***	***1,805***		
Irrigation Ditches						
ID-1	R6	38.107345/ -121.169089	0.152	1,654	8	Irrigation ditch ID-1 is an earthen feature that appears to be maintained (excavated) annually during the growing season and is not readily apparent the remainder of the year. The irrigation ditch delineated within the BSA conveys flow from CW-3 to cornfields.
Approximate Total Irrigation Ditches			***0.152***	***1,654***		

[a] Cowardin, L.M., V. Carter V., F.C. Golet, E.T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U.S. Fish and Wildlife Service Report No. FWS/OBS/-79/31. Washington, D.C.

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Figures

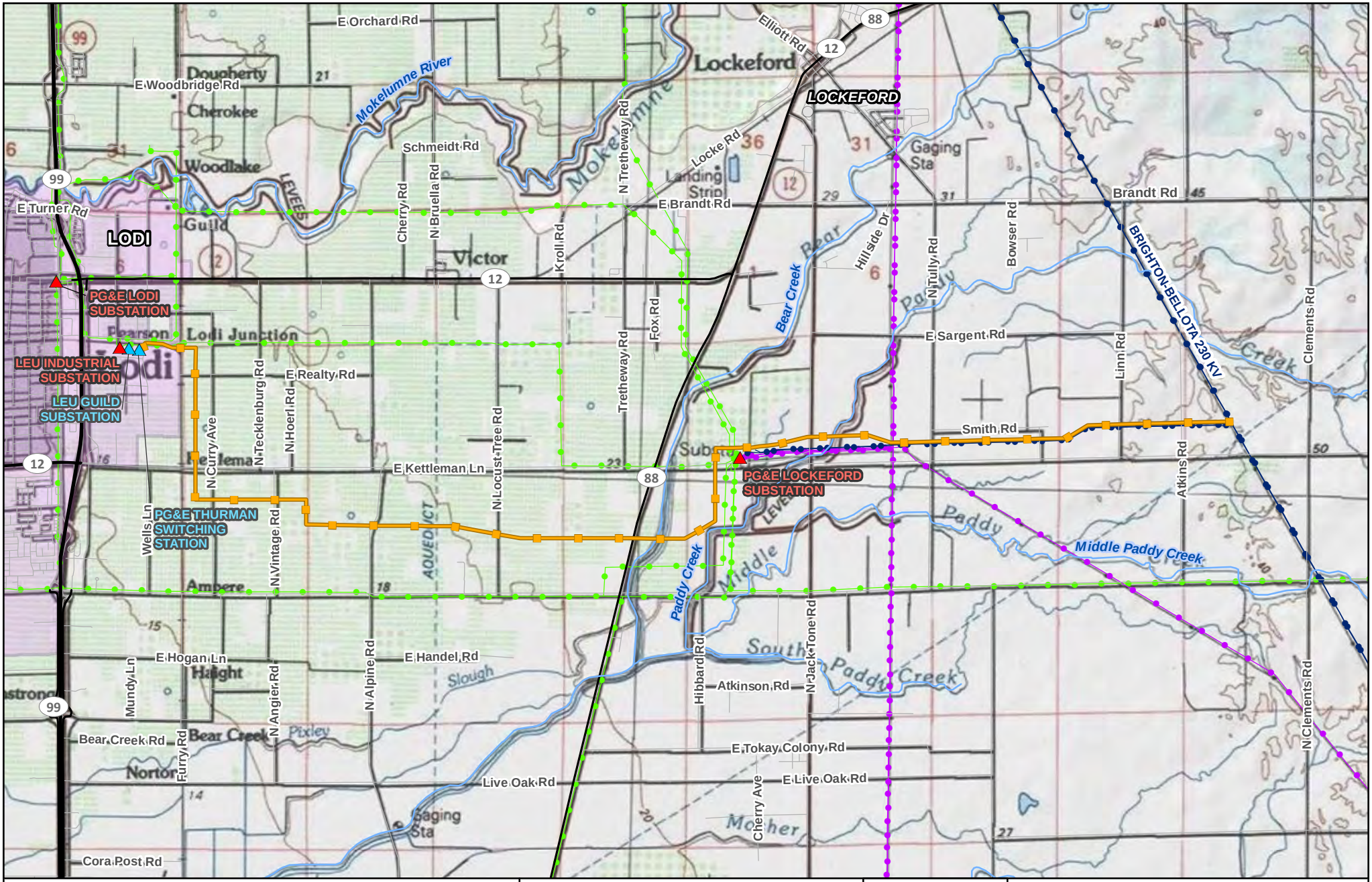

Figure 1
Project Location
Northern San Joaquin 230 kV Transmission Project

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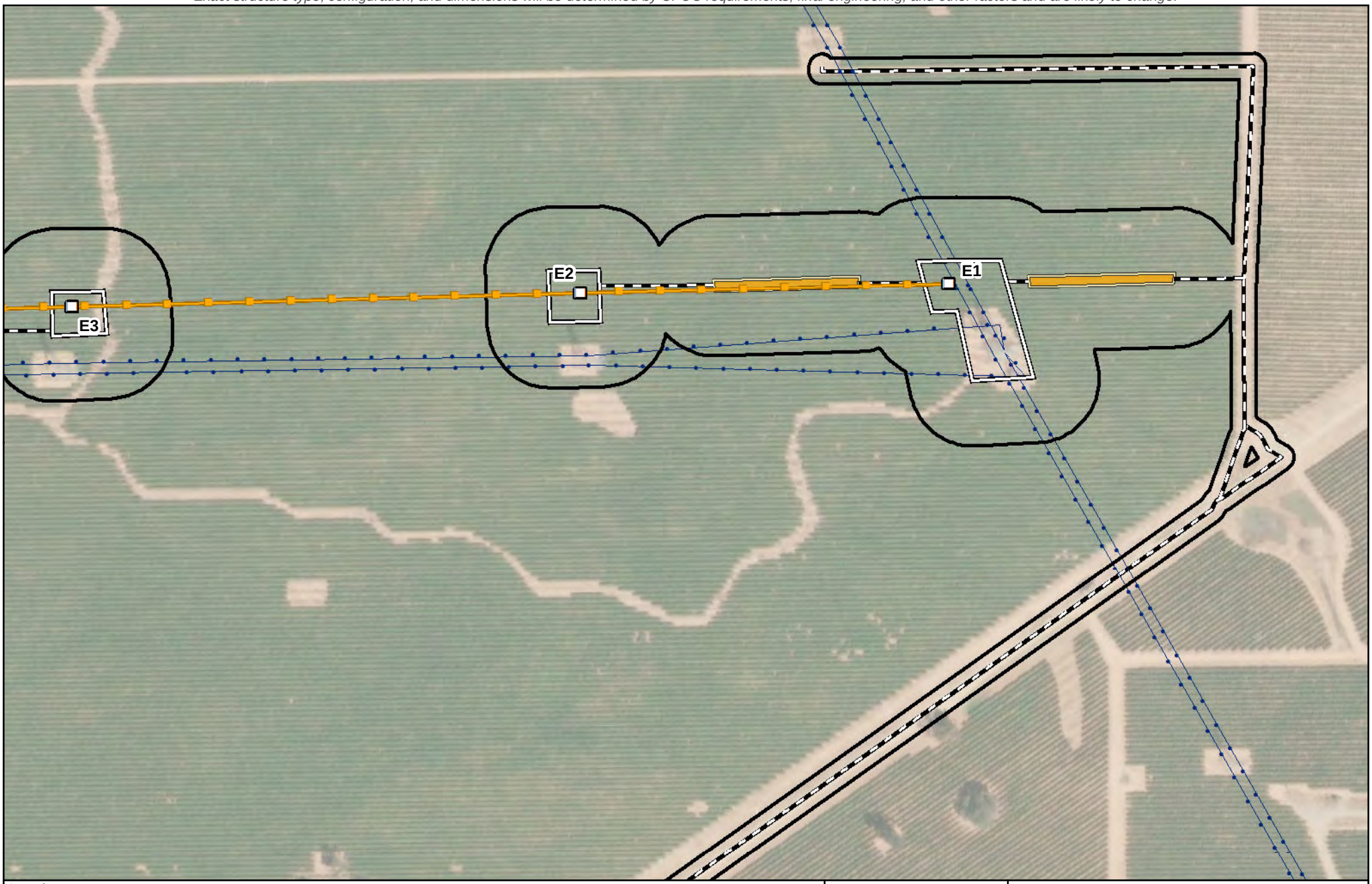
Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
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- Existing 230 kV Transmission Line

Proposed Impact Areas

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- RO-L1 Proposed TSP
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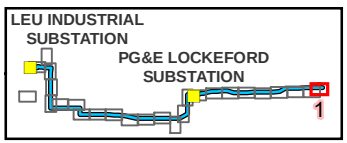

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FIGURE 2
Project Elements and Biological Study Area
Page 1 of 26
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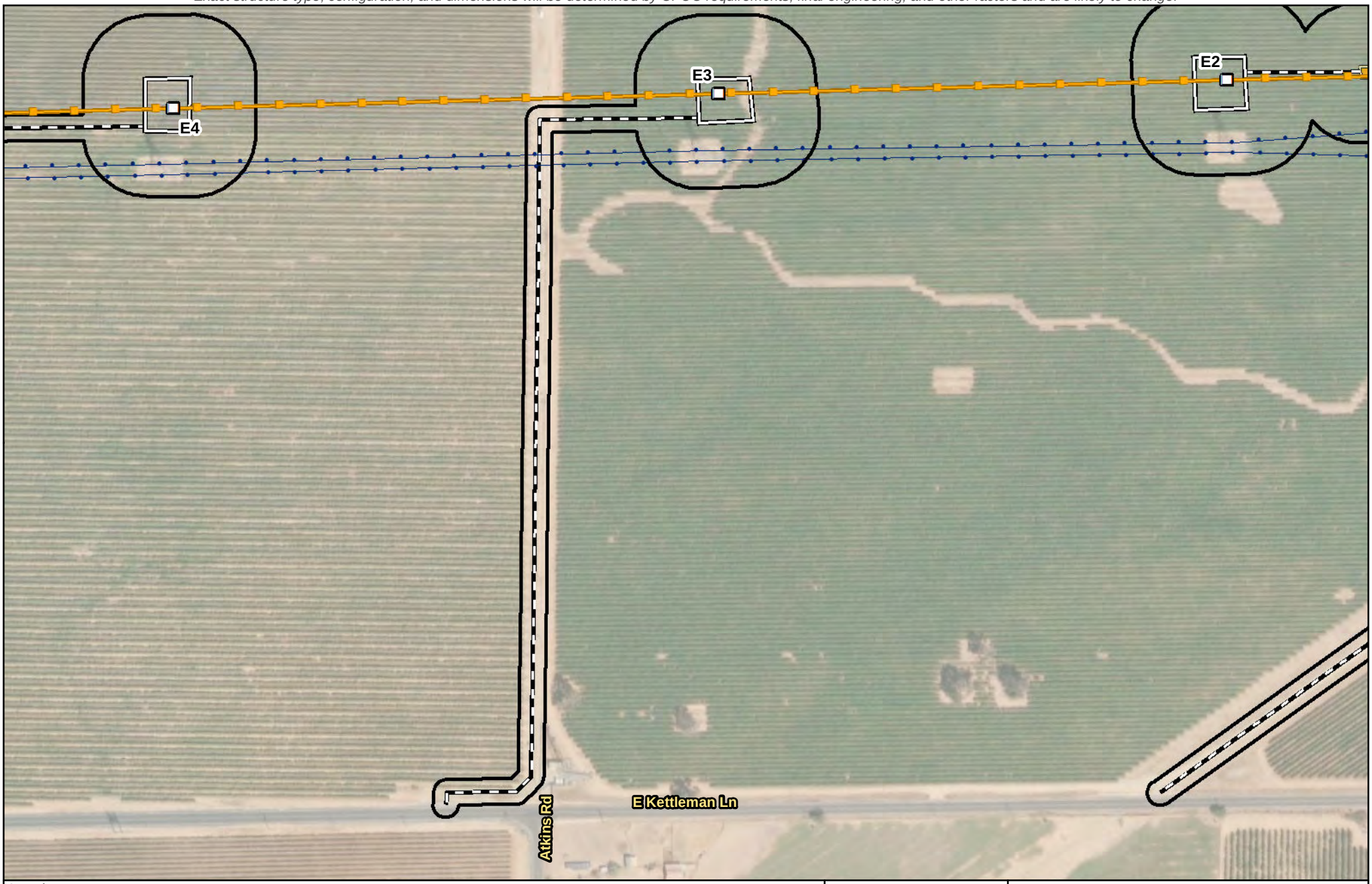

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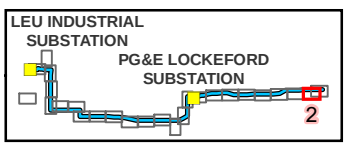

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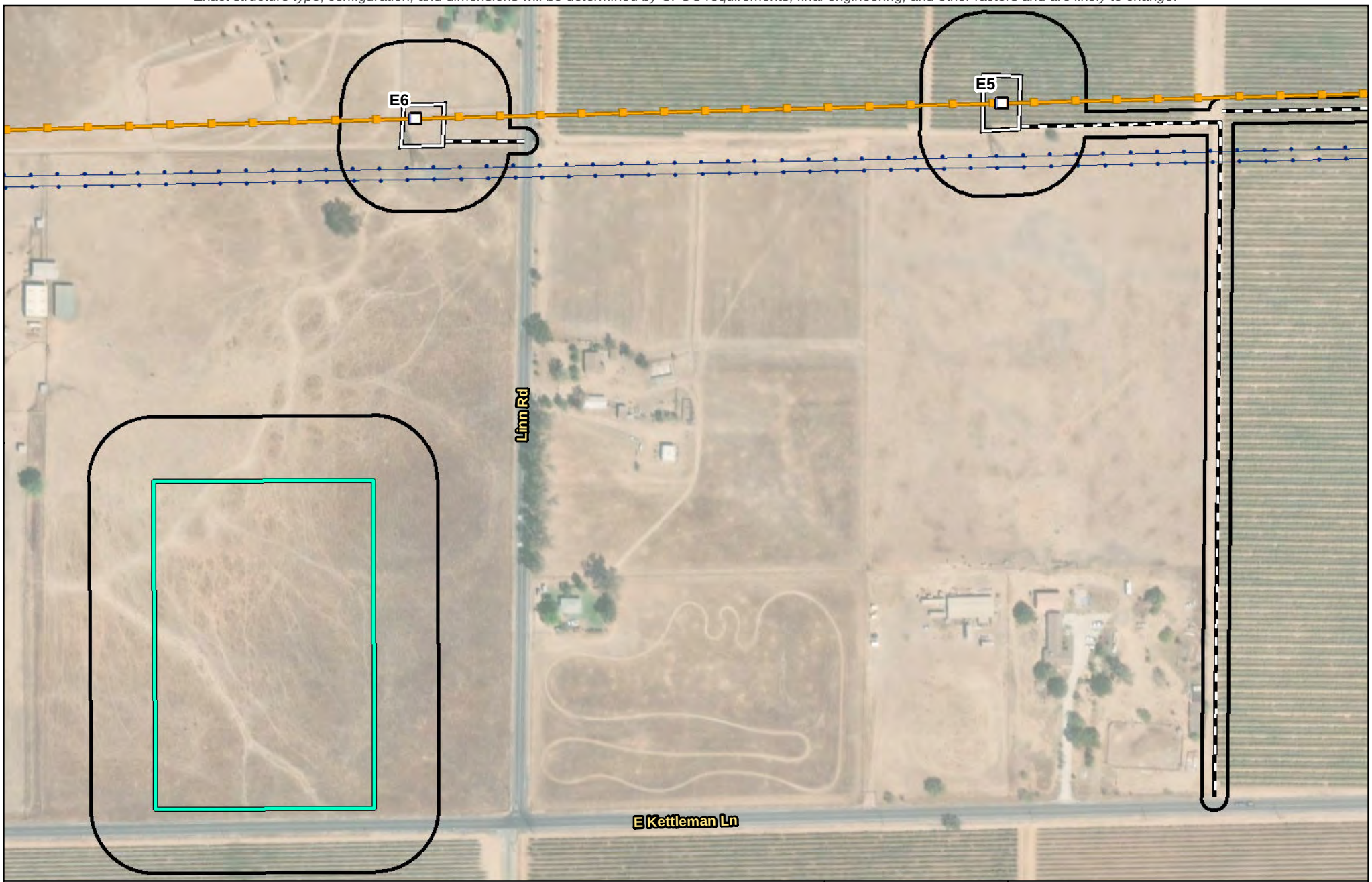

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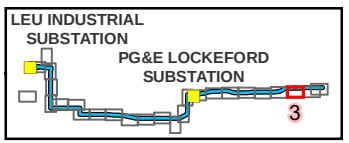

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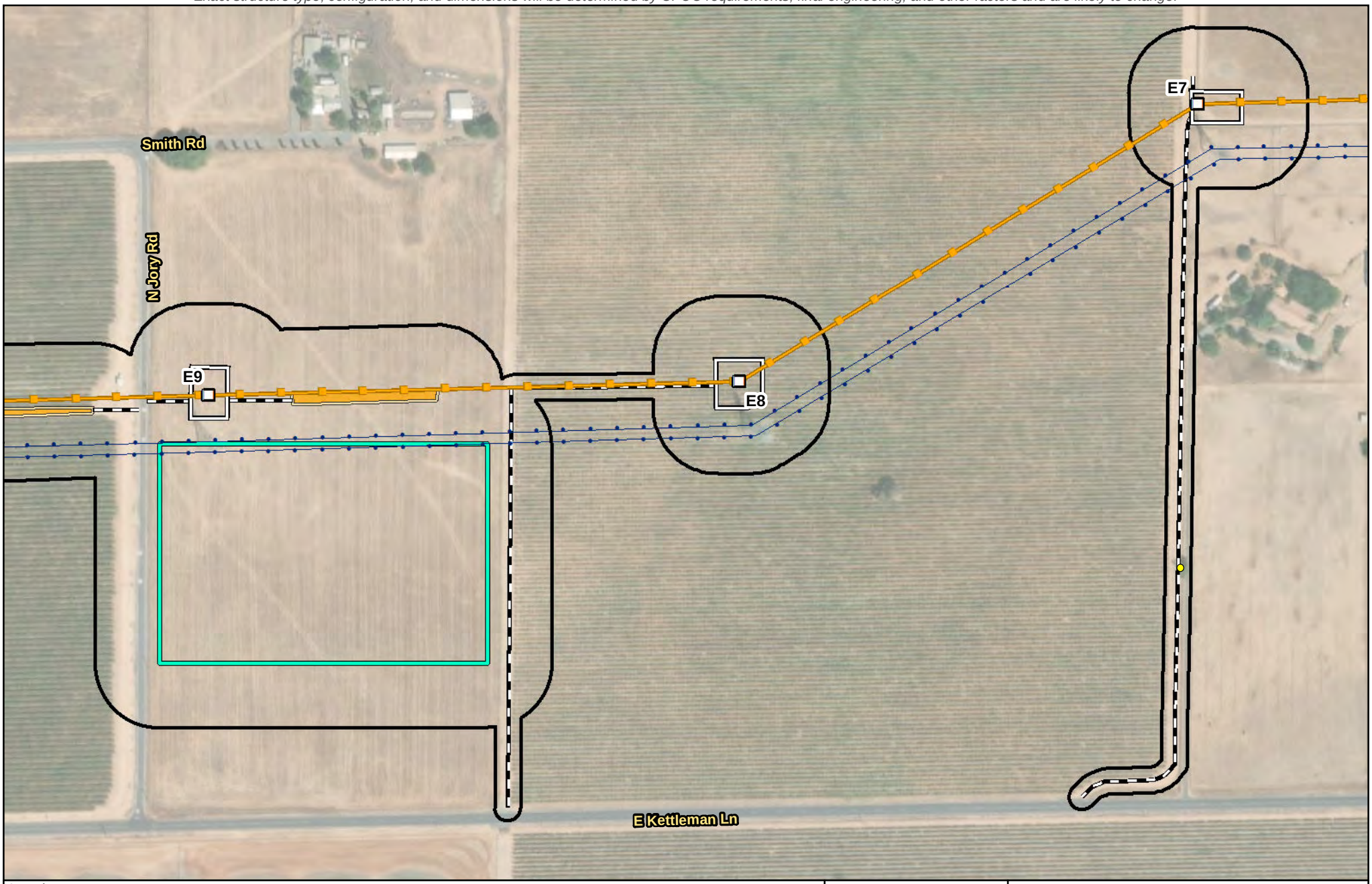

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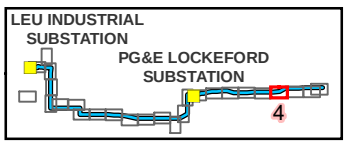

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FIGURE 2
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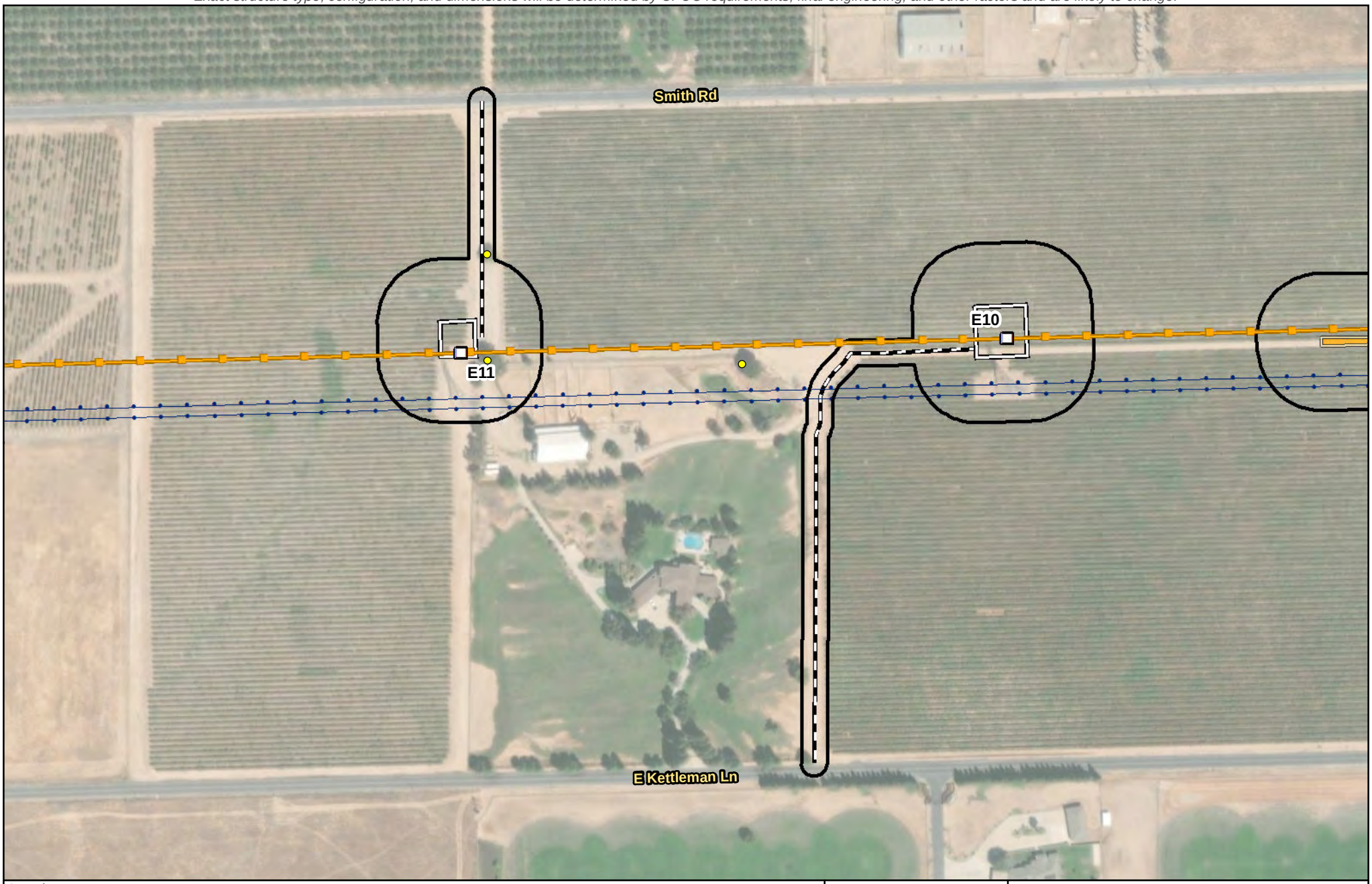

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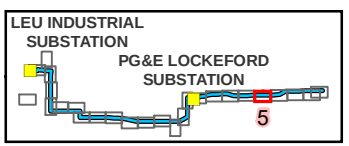

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FIGURE 2
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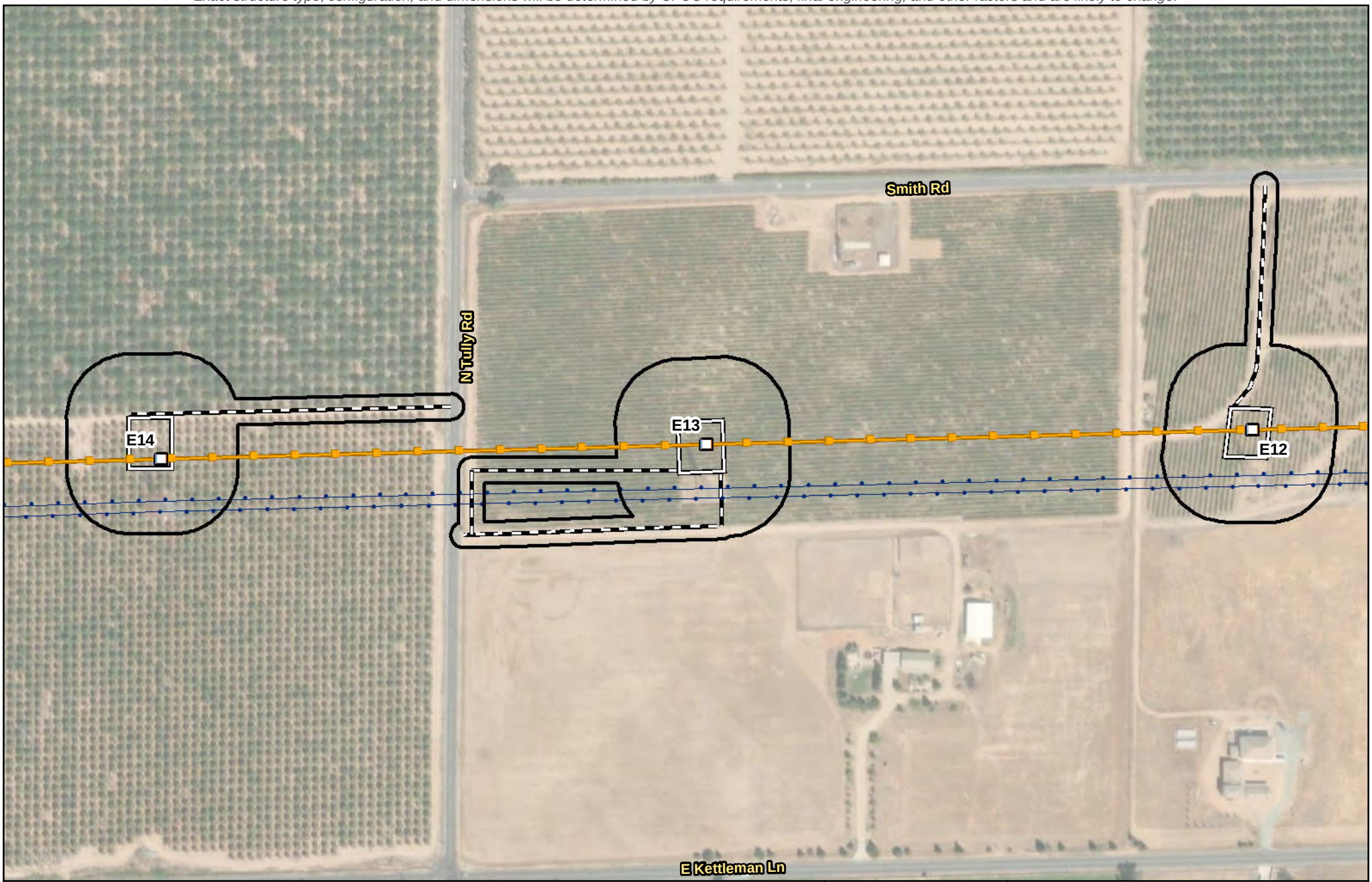

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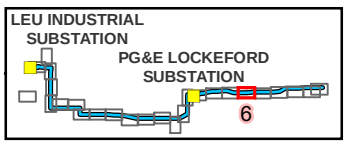

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FIGURE 2
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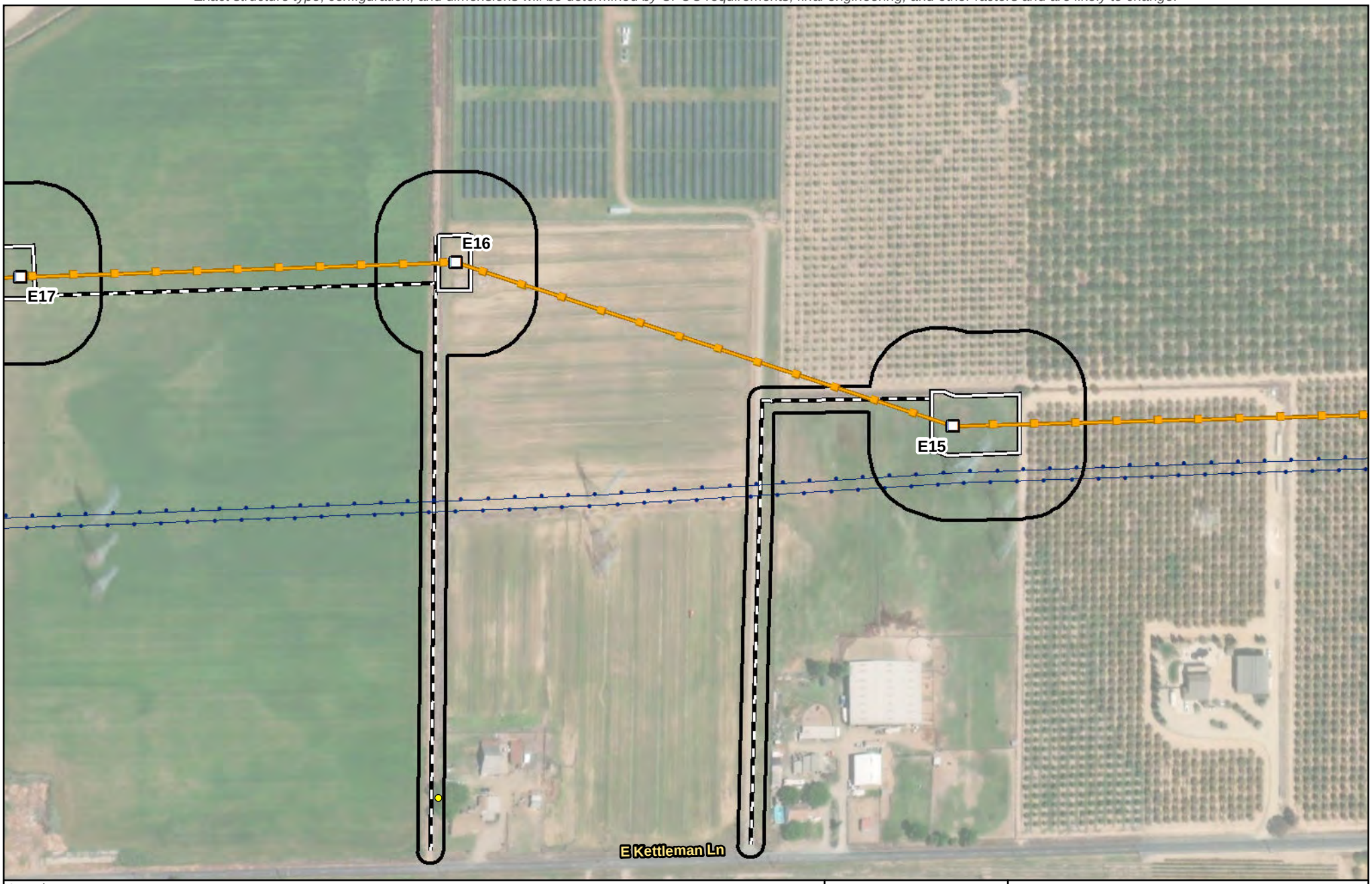

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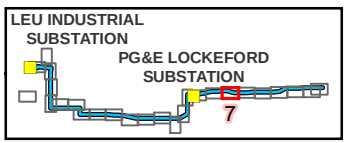

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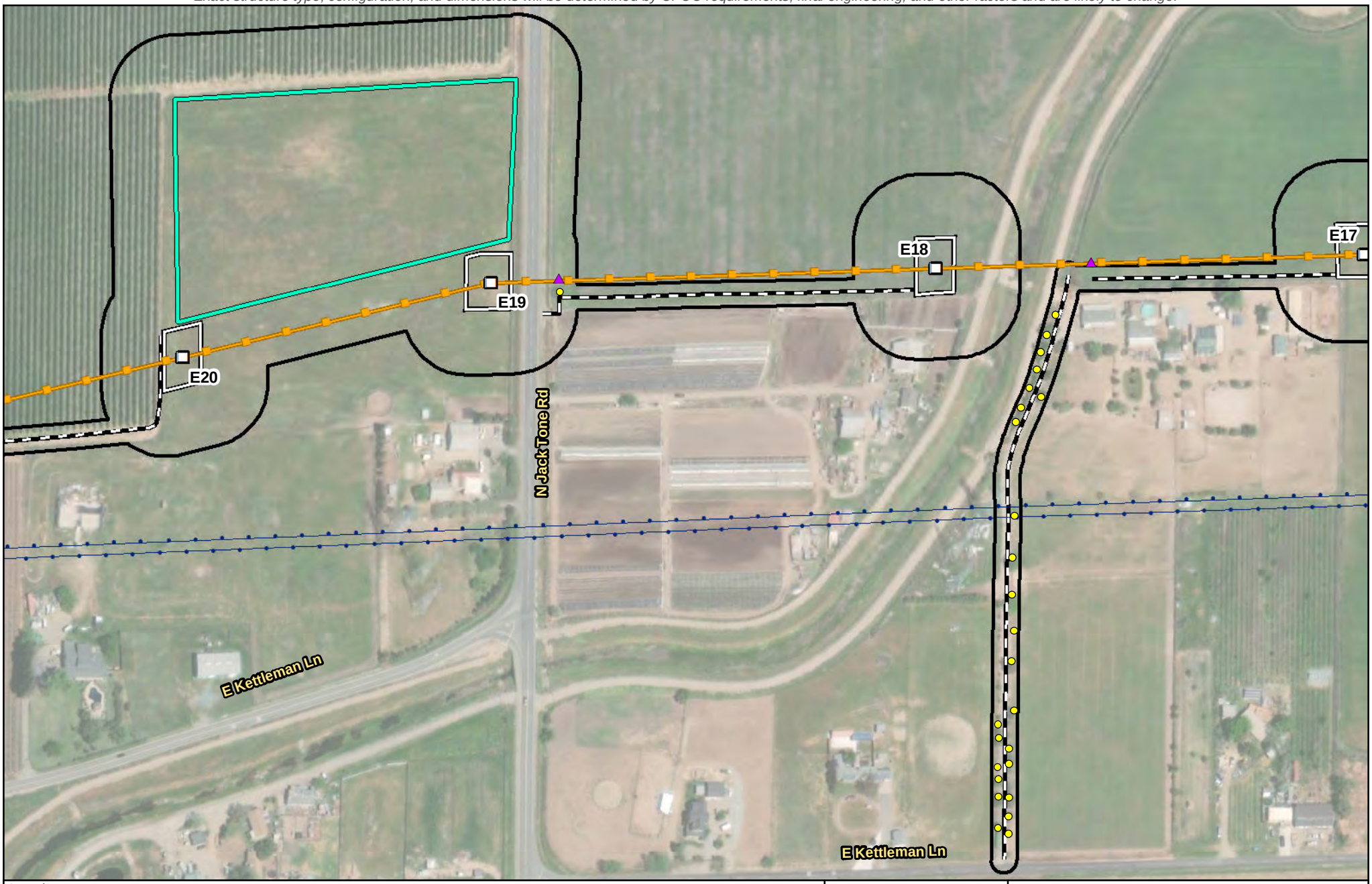

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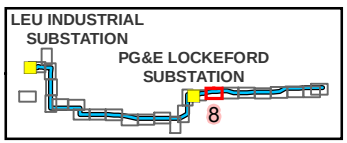

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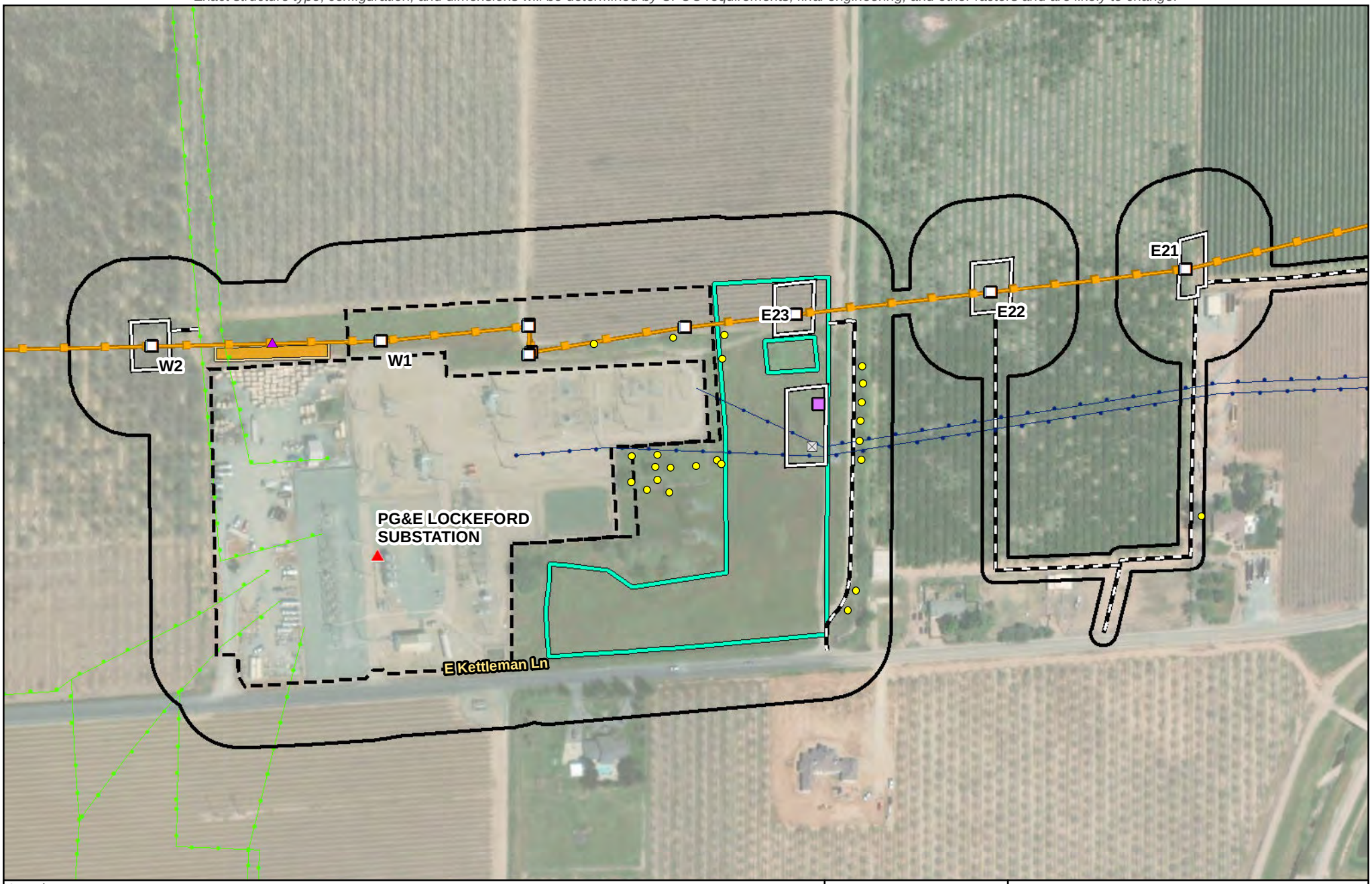

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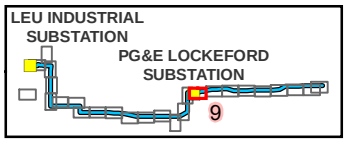

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Northern San Joaquin 230 kV Transmission Project

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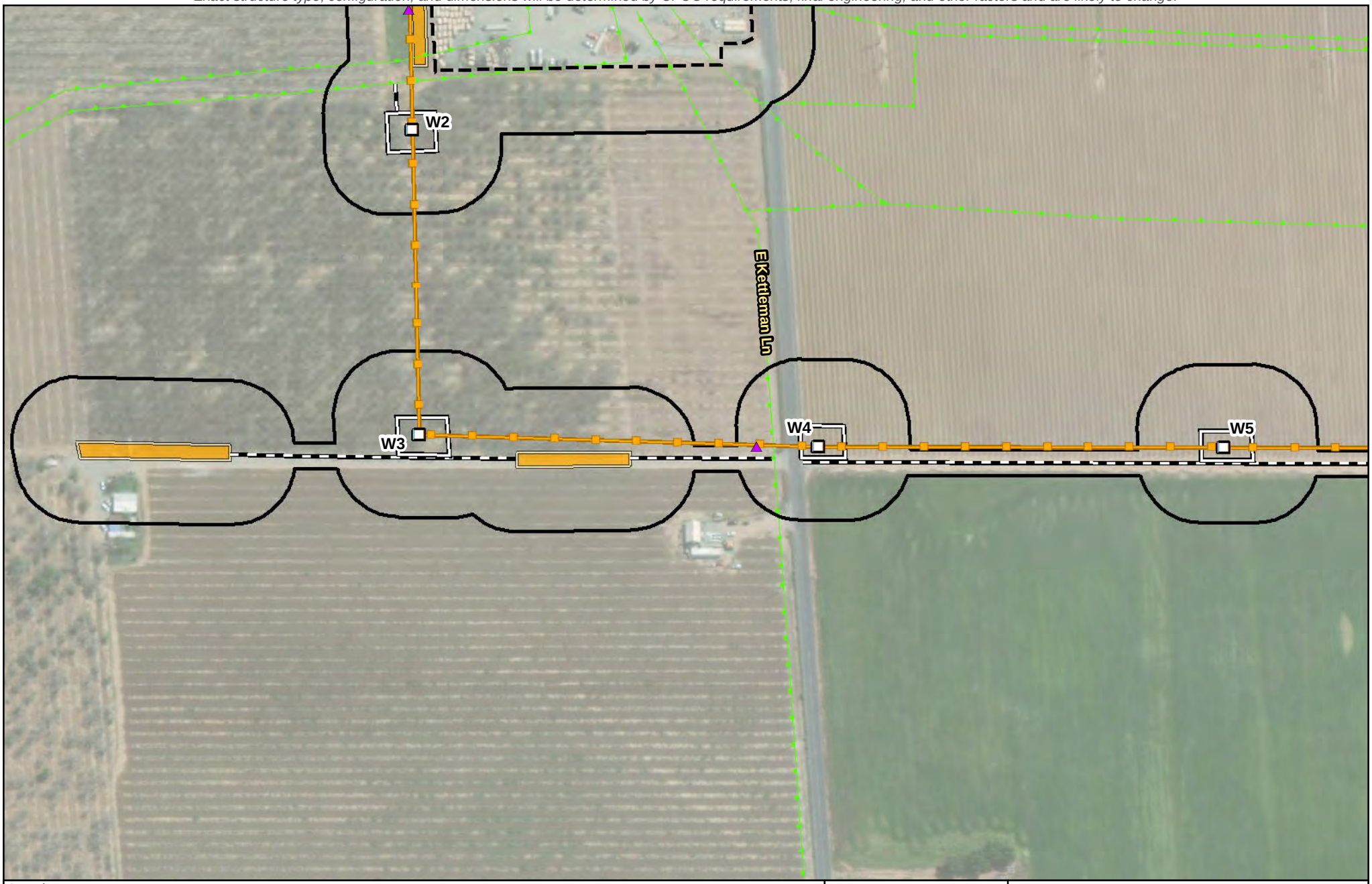

Legend

- Biological Study Area (387.06 acres)
- Substation
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- Existing 230 kV Transmission Line

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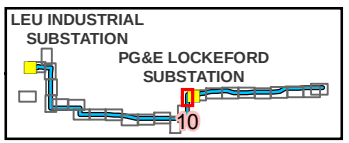

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FIGURE 2
Project Elements and Biological Study Area
Page 10 of 26
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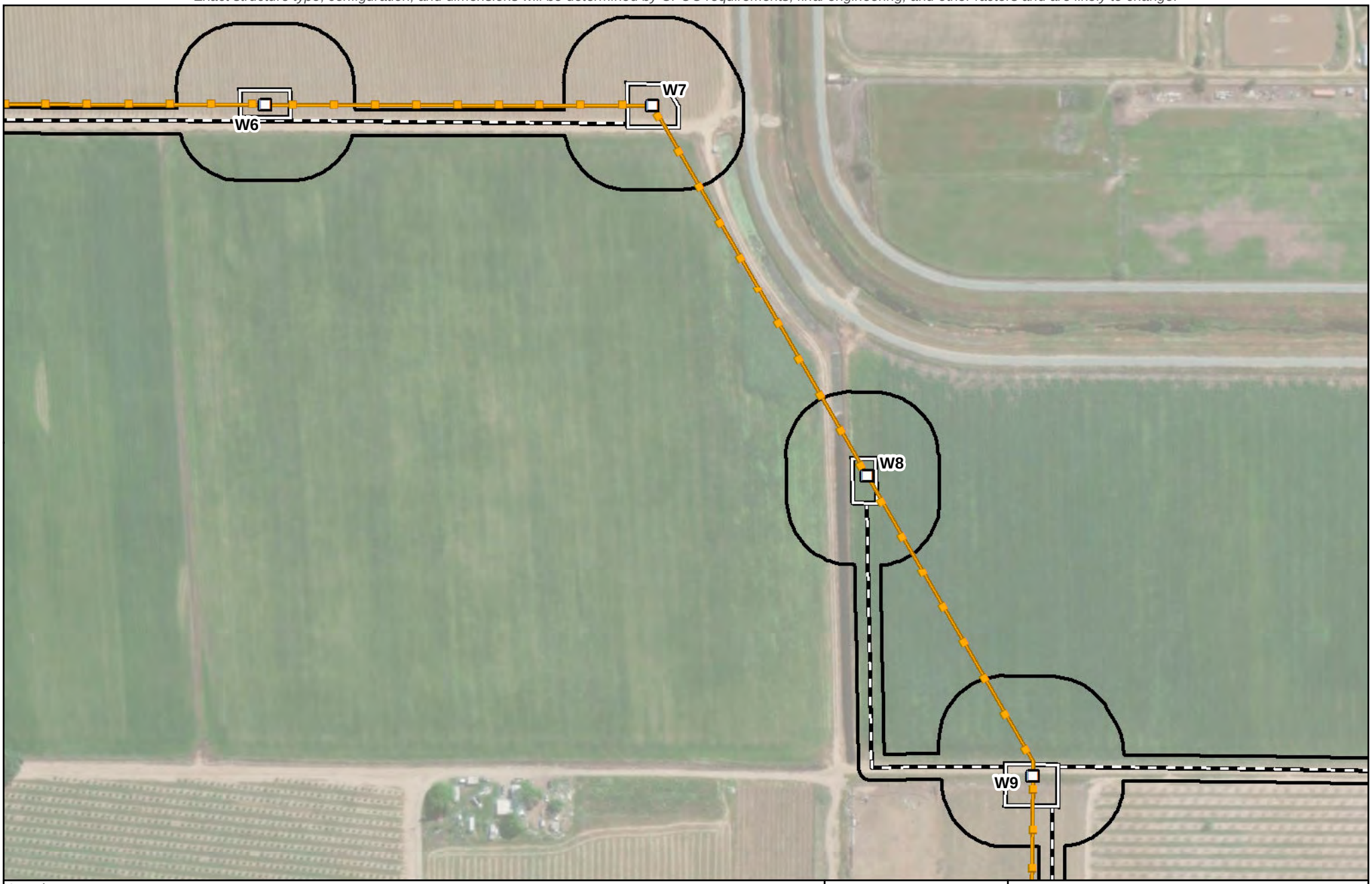

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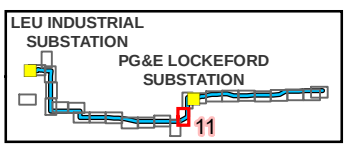

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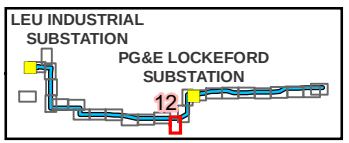

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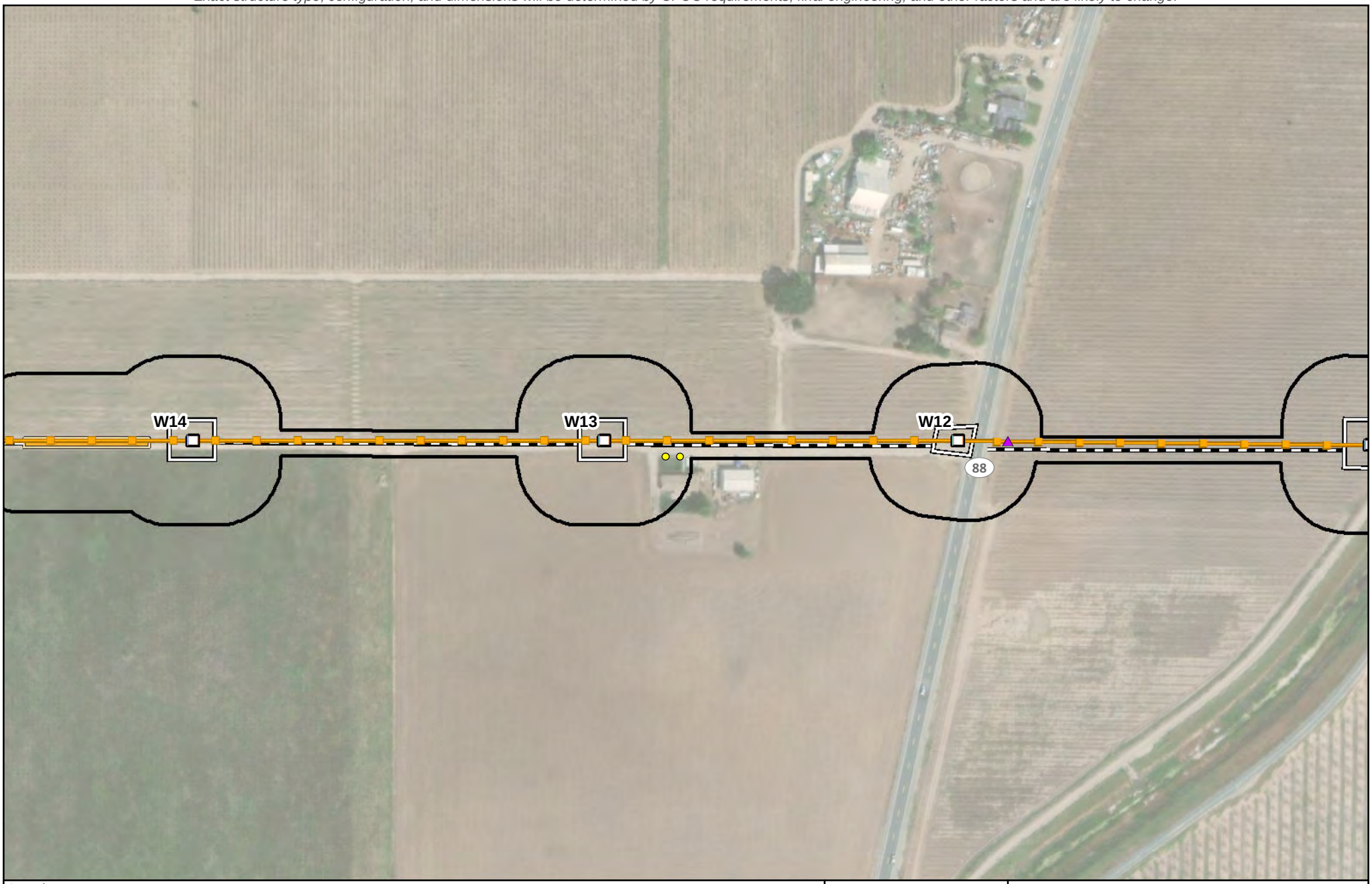

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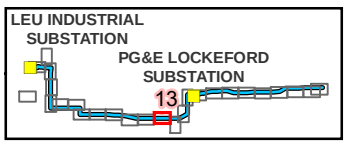

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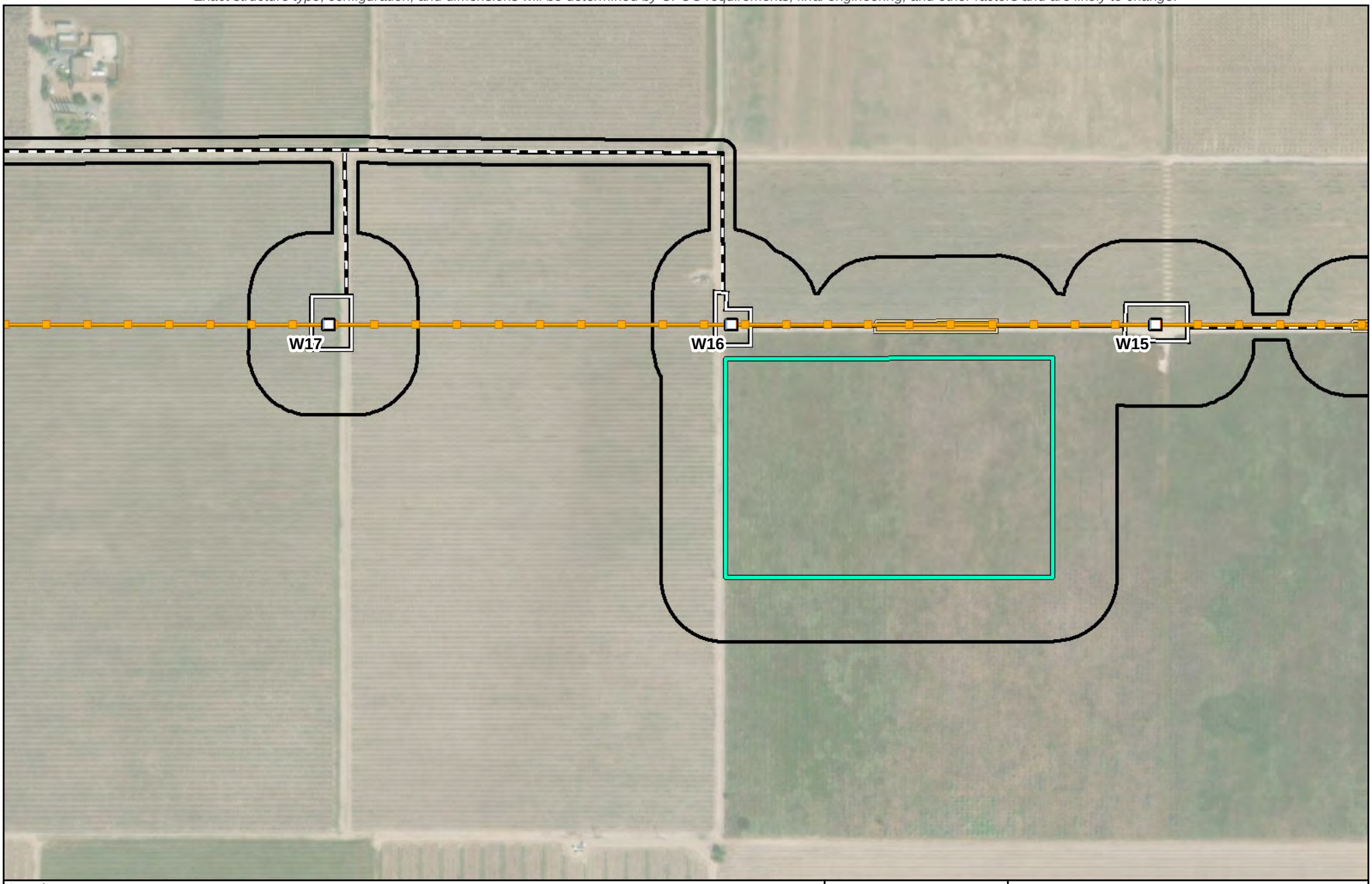

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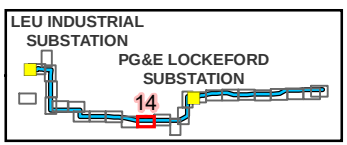

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FIGURE 2
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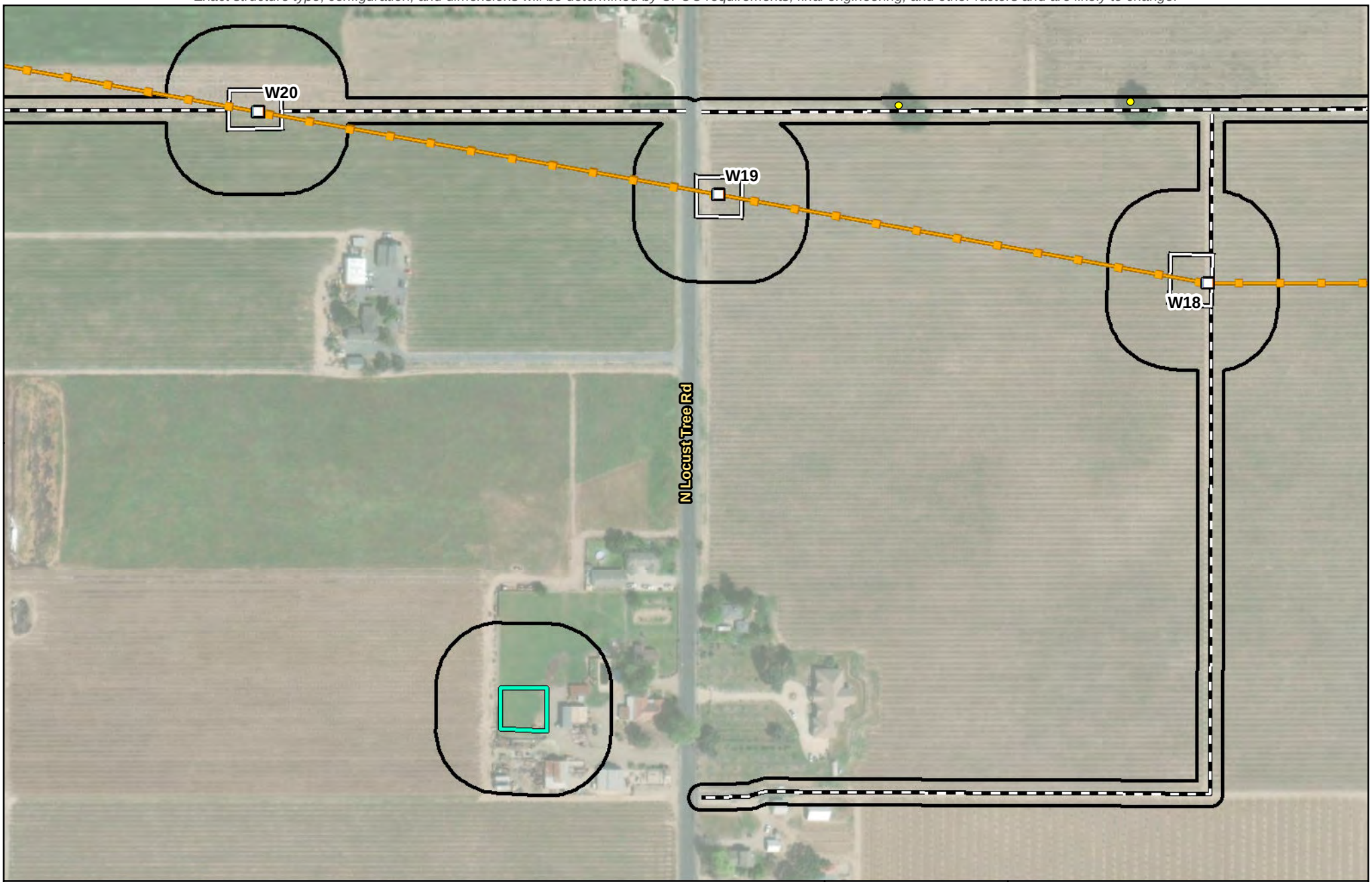

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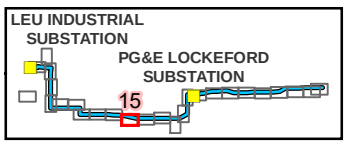

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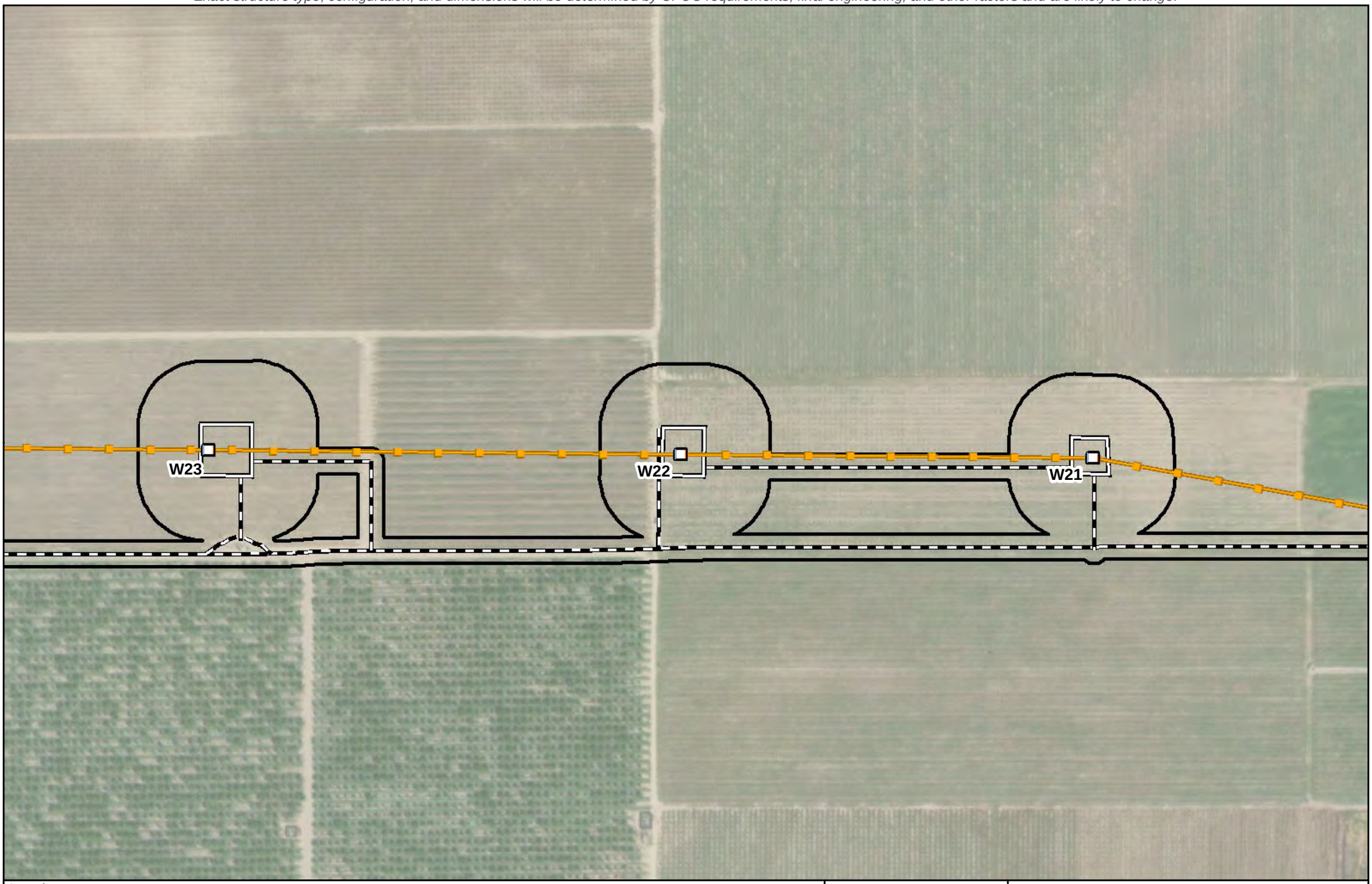

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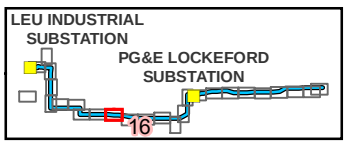

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Page 16 of 26
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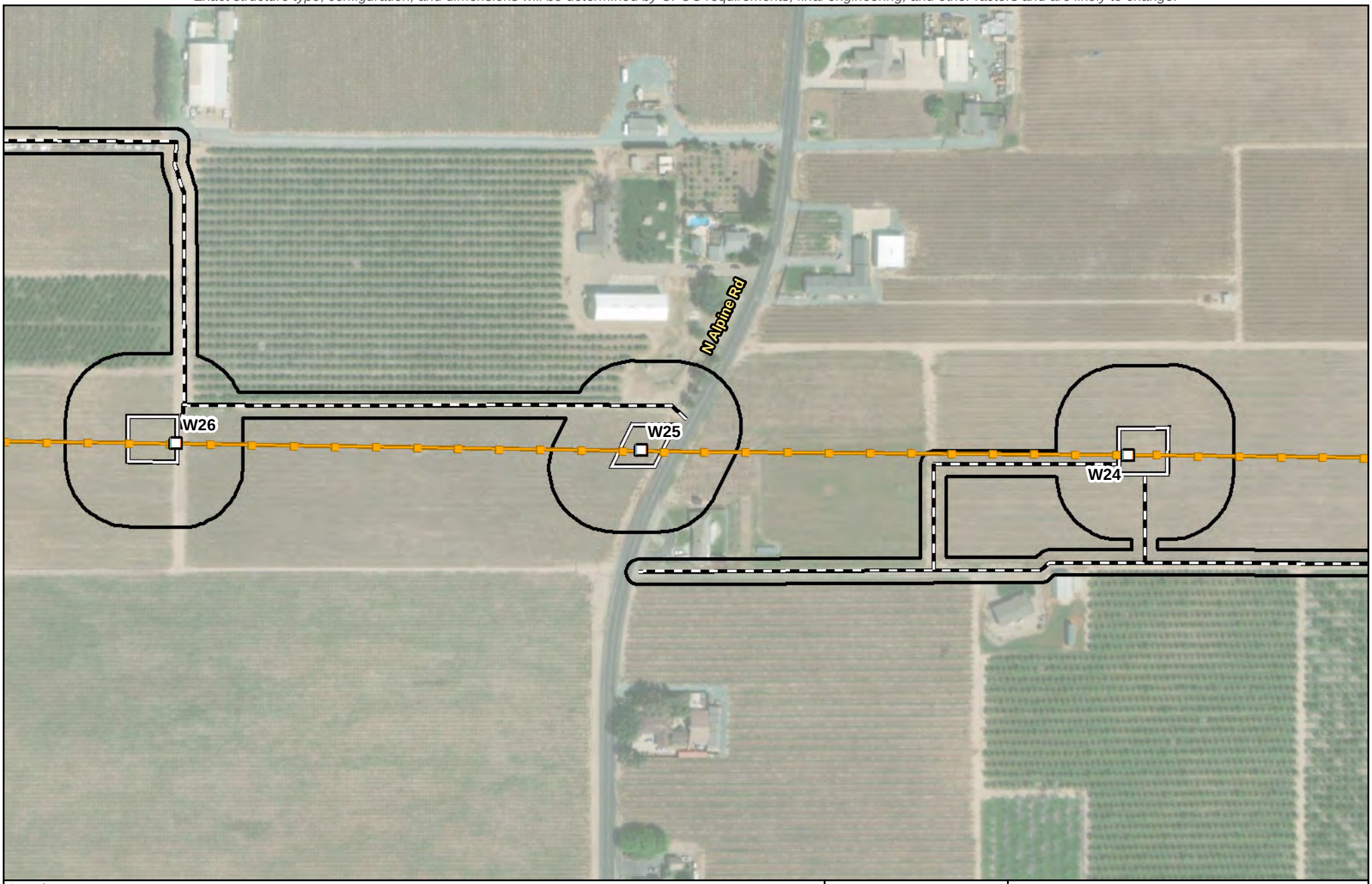

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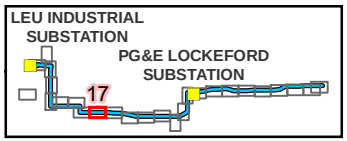

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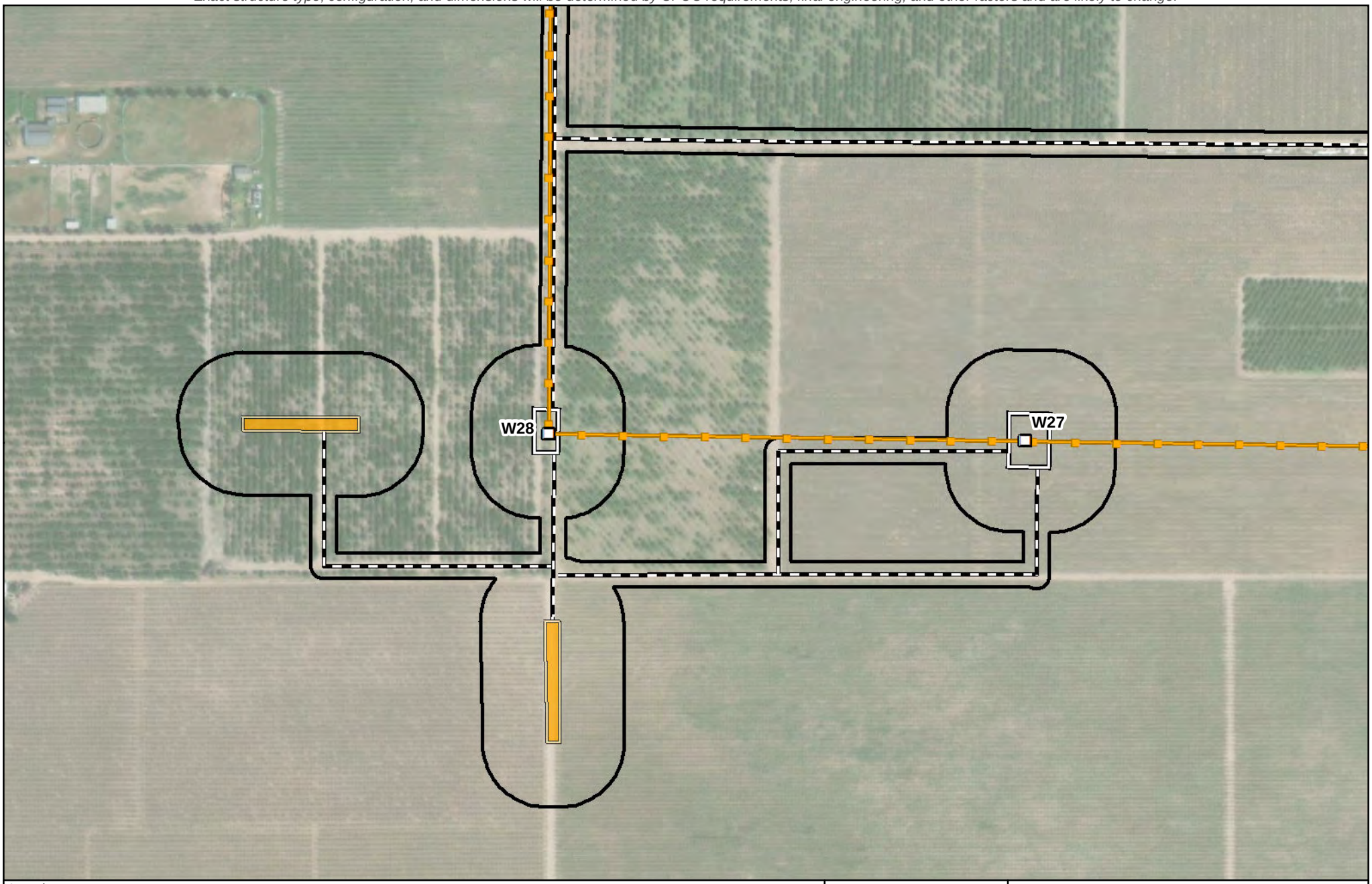

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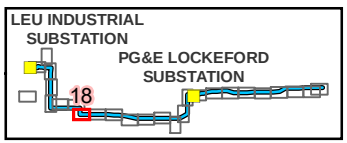

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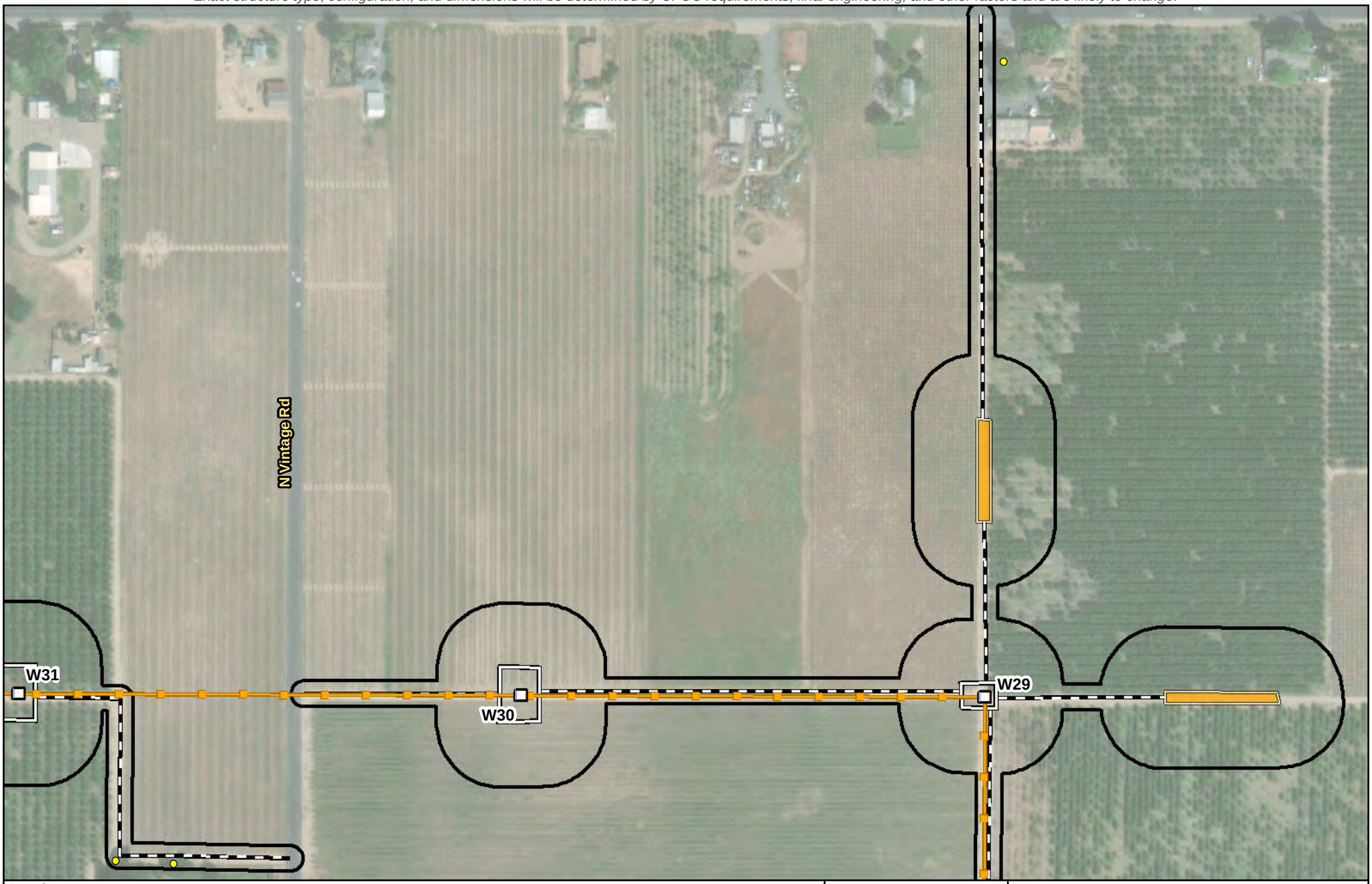

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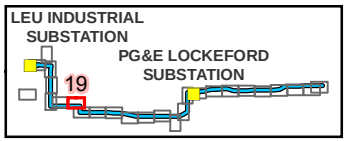

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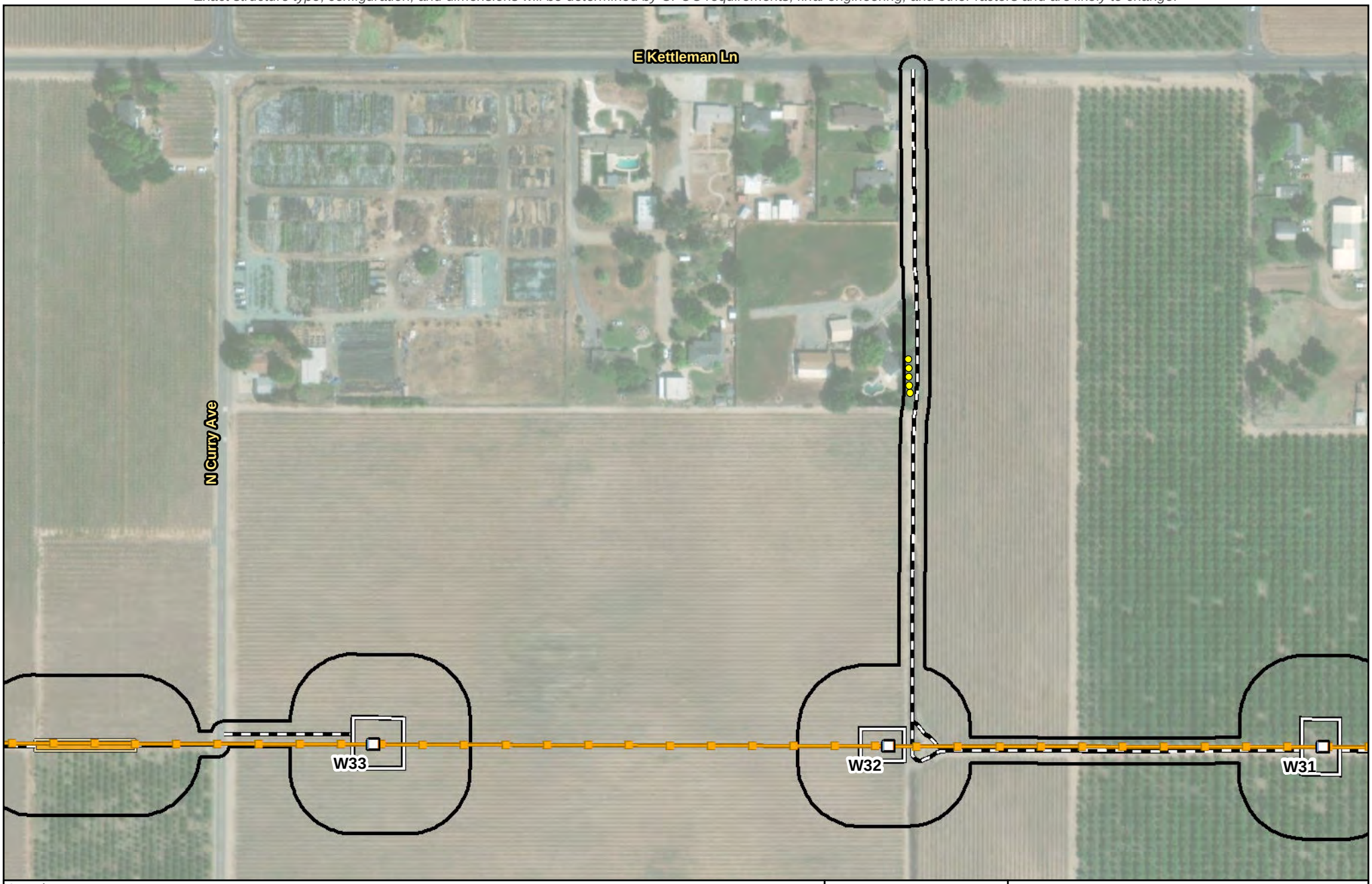

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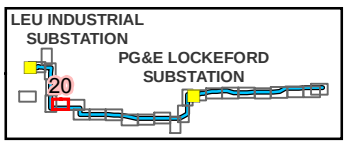

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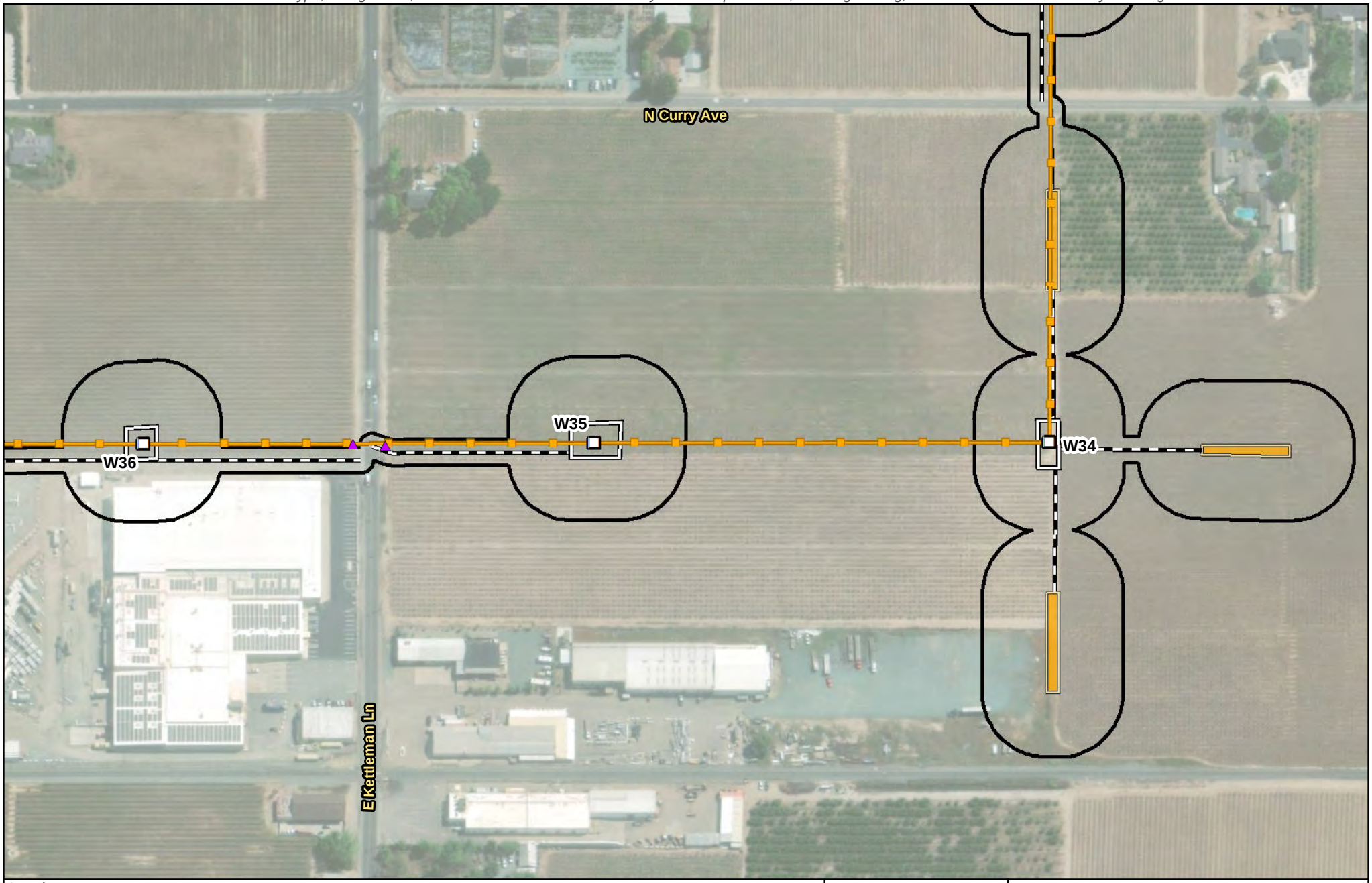

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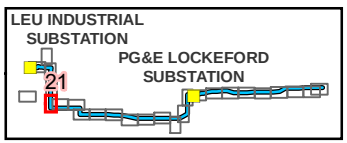

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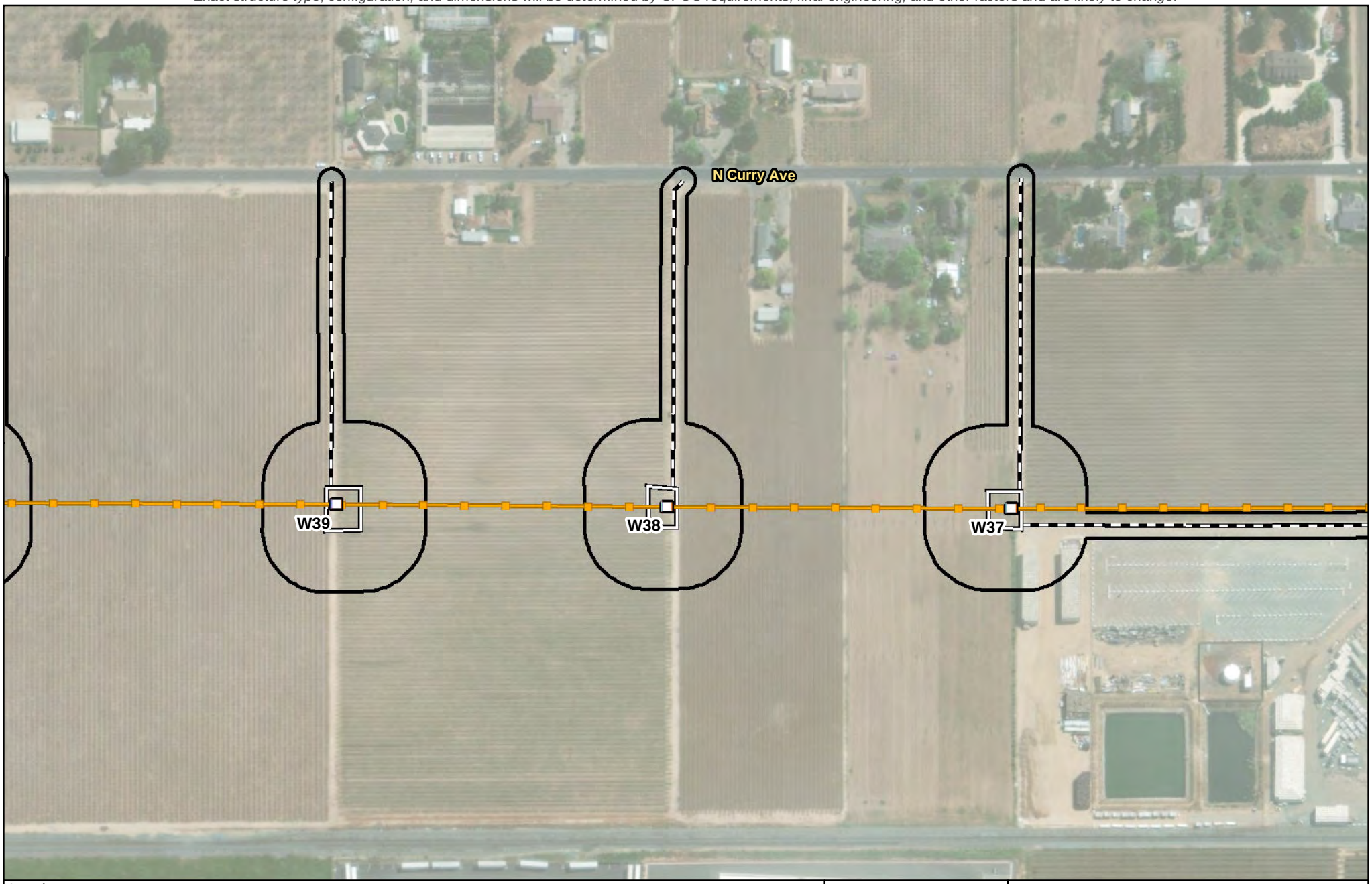

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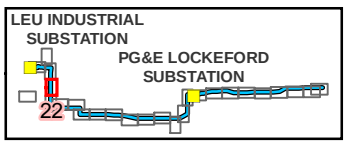

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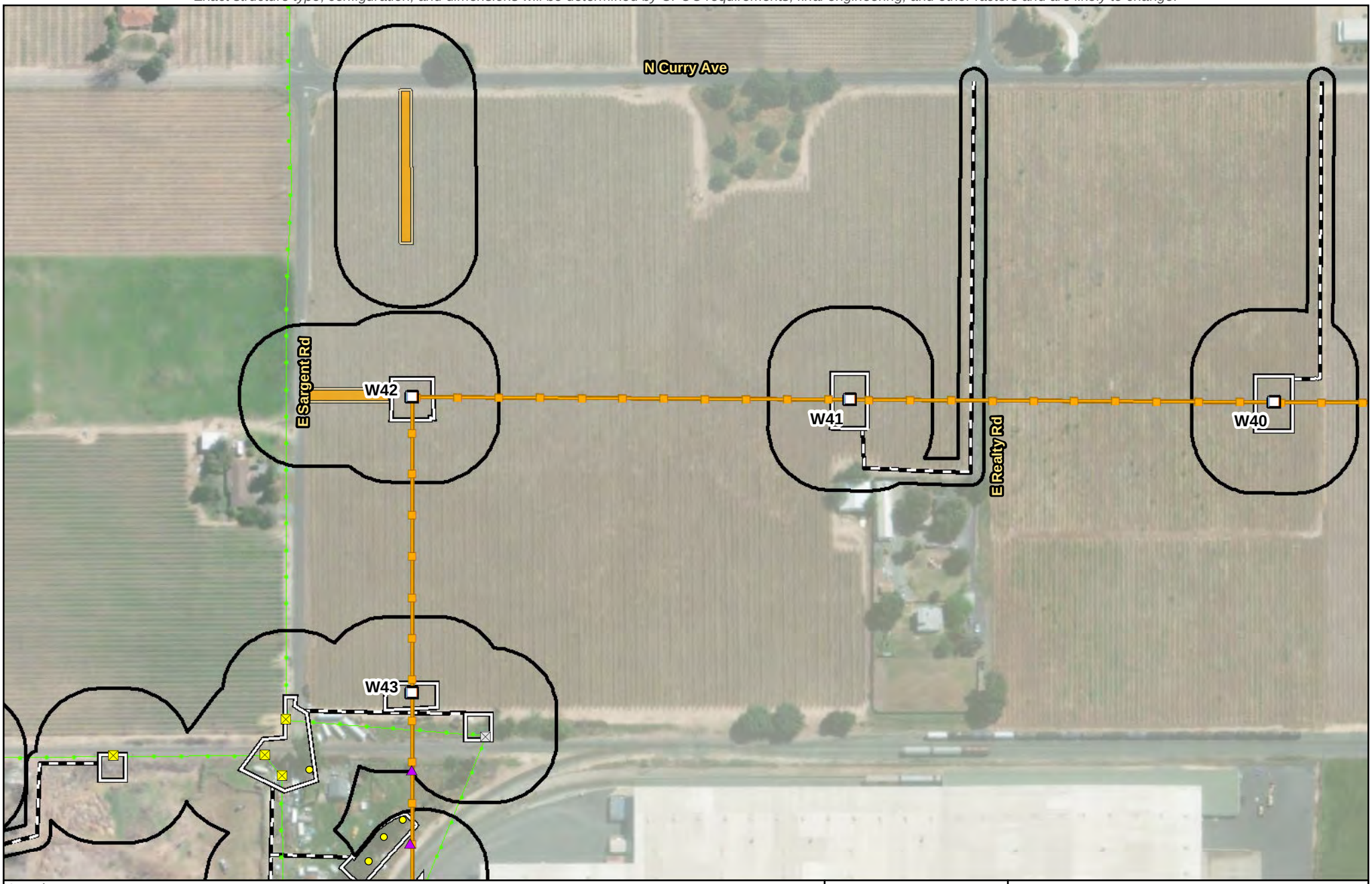

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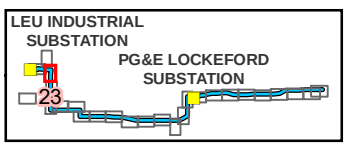

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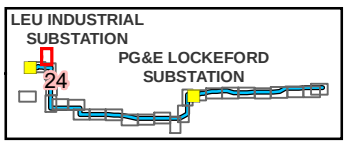

Source:
1) Esri World Imagery

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FIGURE 2
Project Elements and Biological Study Area
Page 24 of 26
Northern San Joaquin 230 kV Transmission Project

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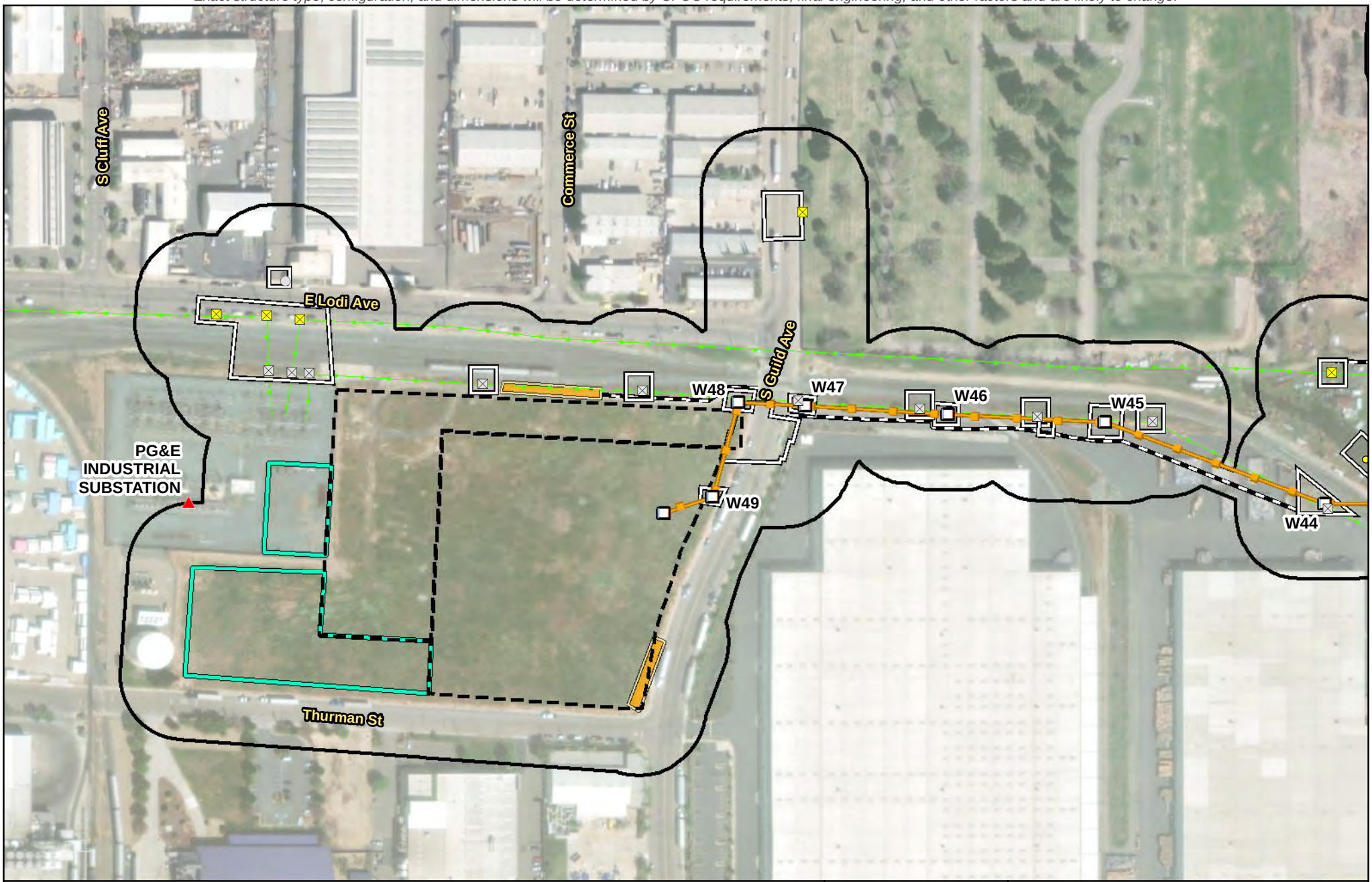

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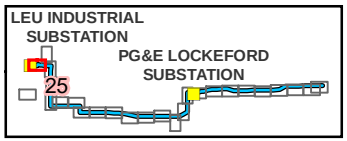

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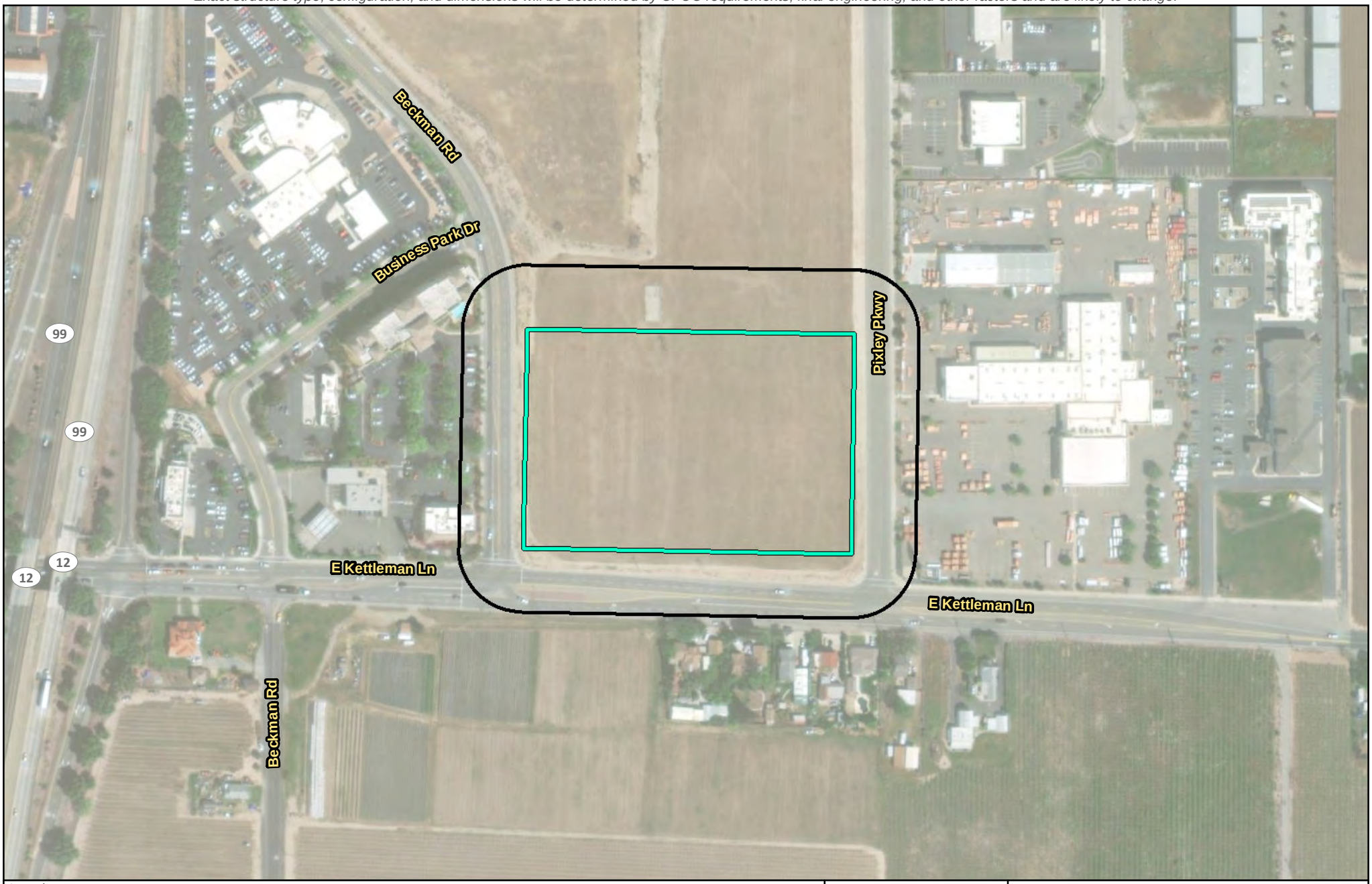

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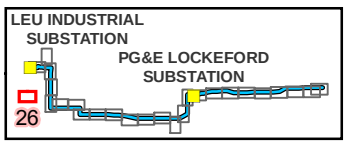

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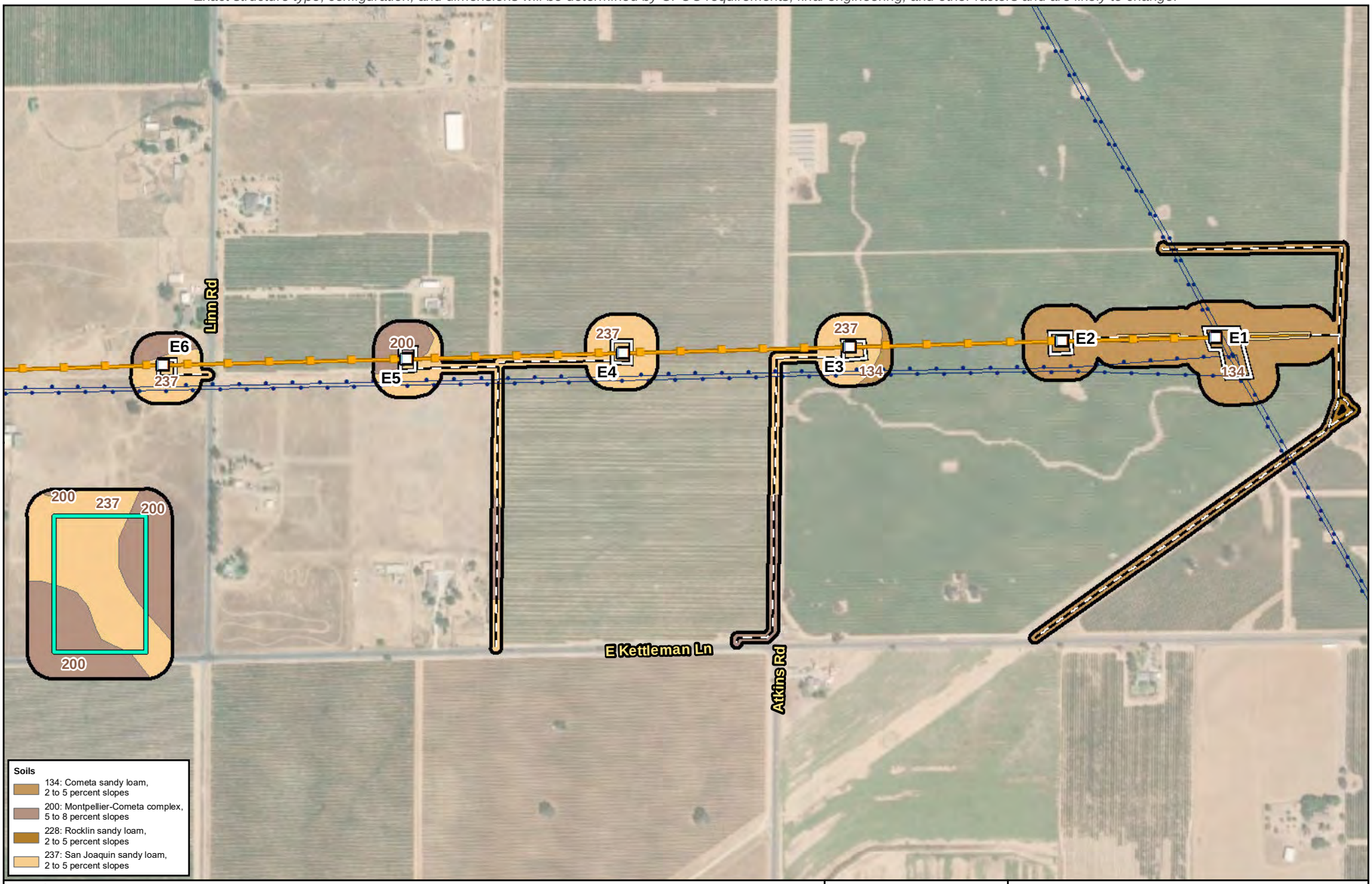

FIGURE 3
NRCS Soil Series within the Biological Study Area
Page 1 of 10
Northern San Joaquin 230 kV Transmission Project

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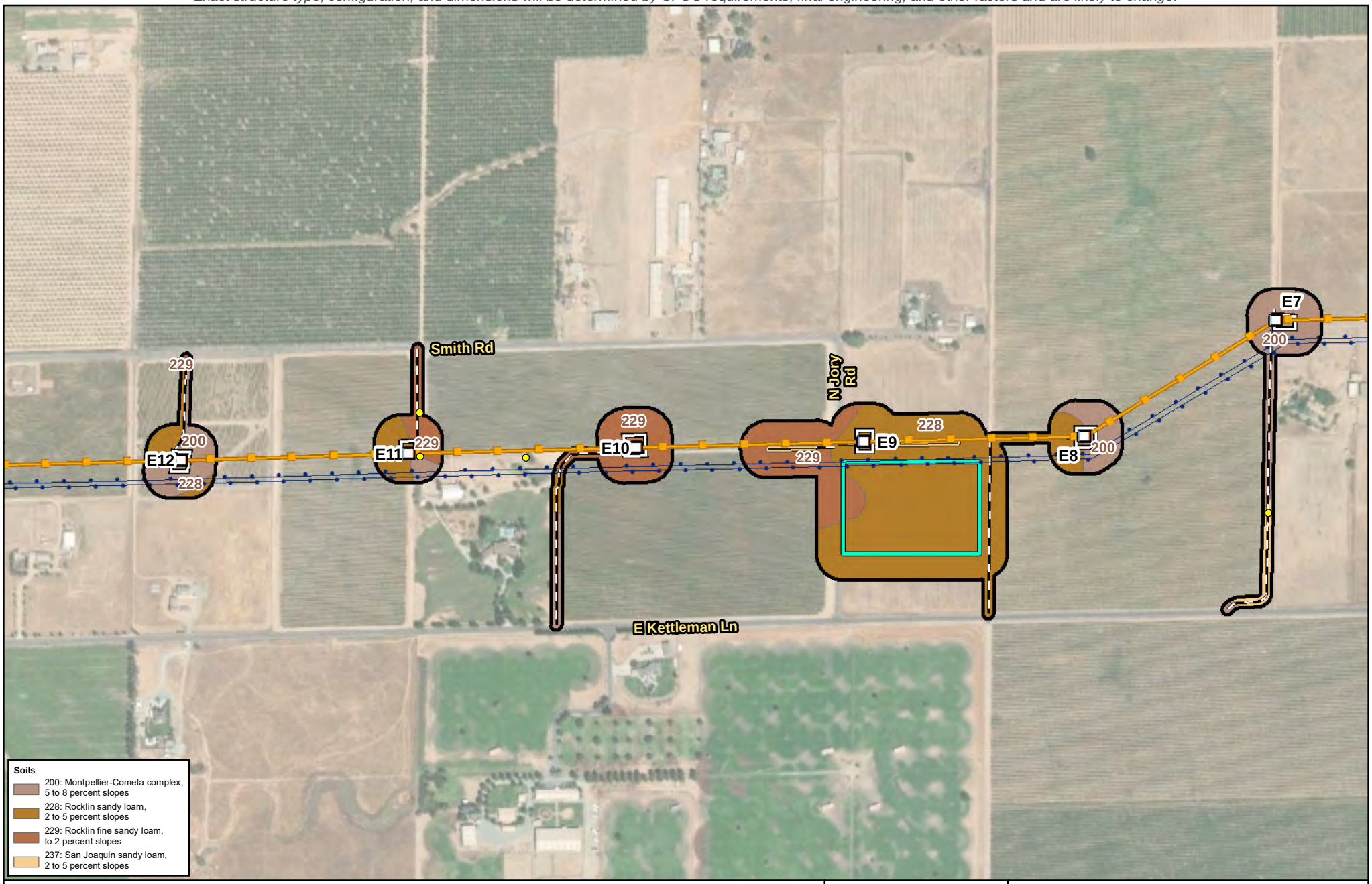

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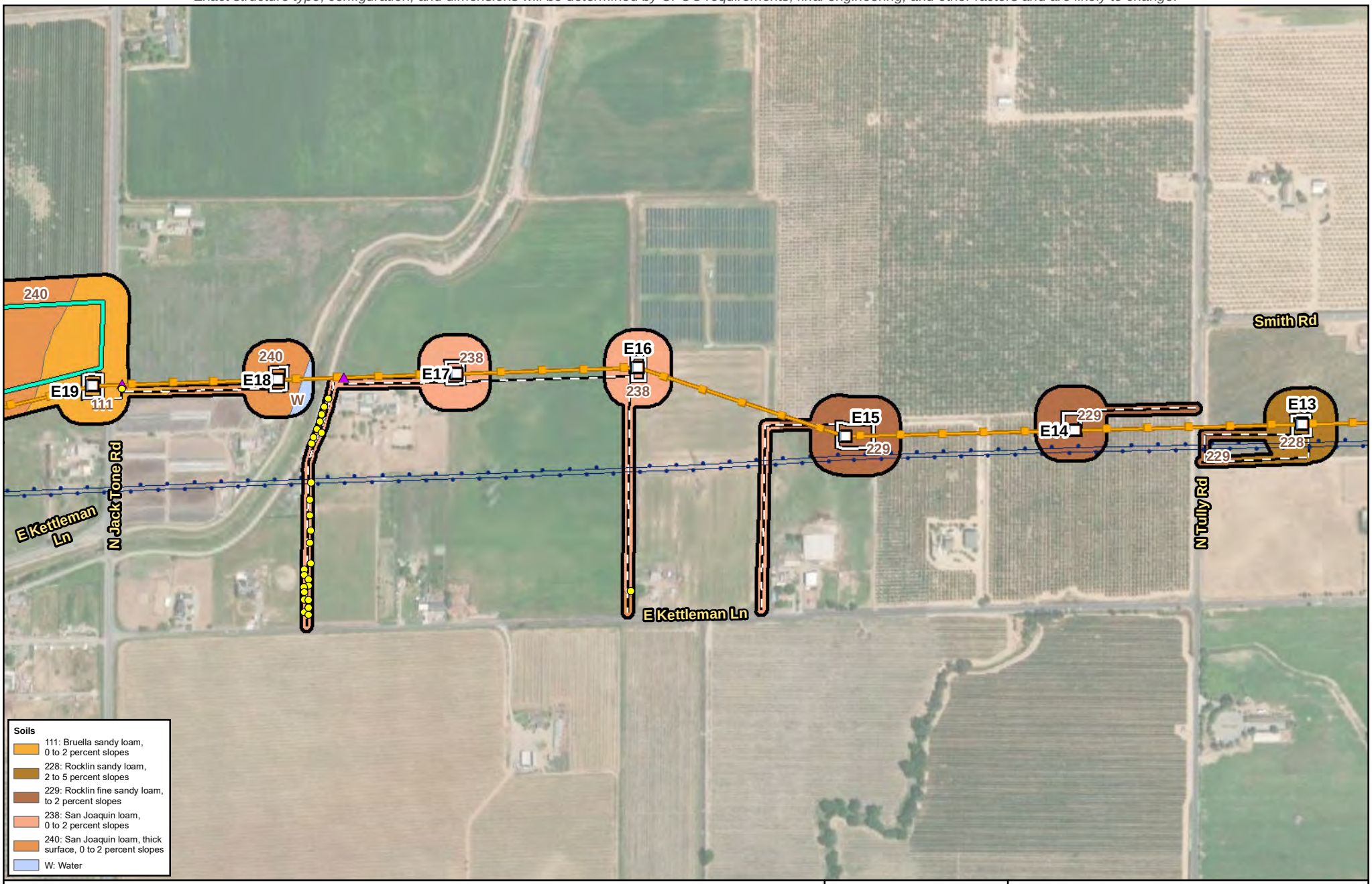

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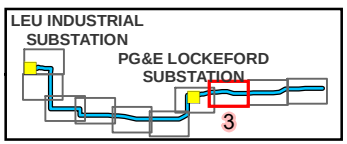

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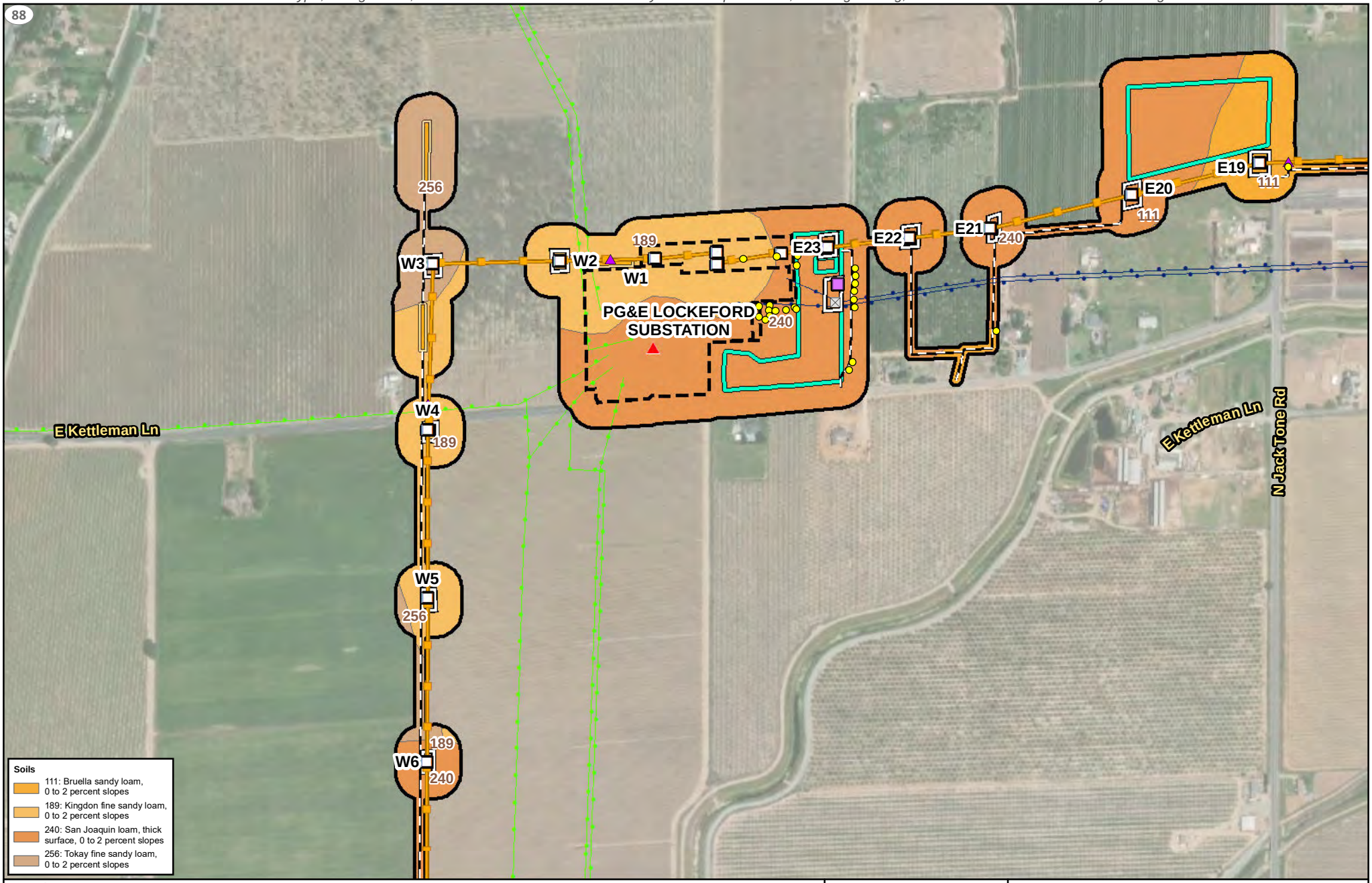

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Page 4 of 10
Northern San Joaquin 230 kV Transmission Project

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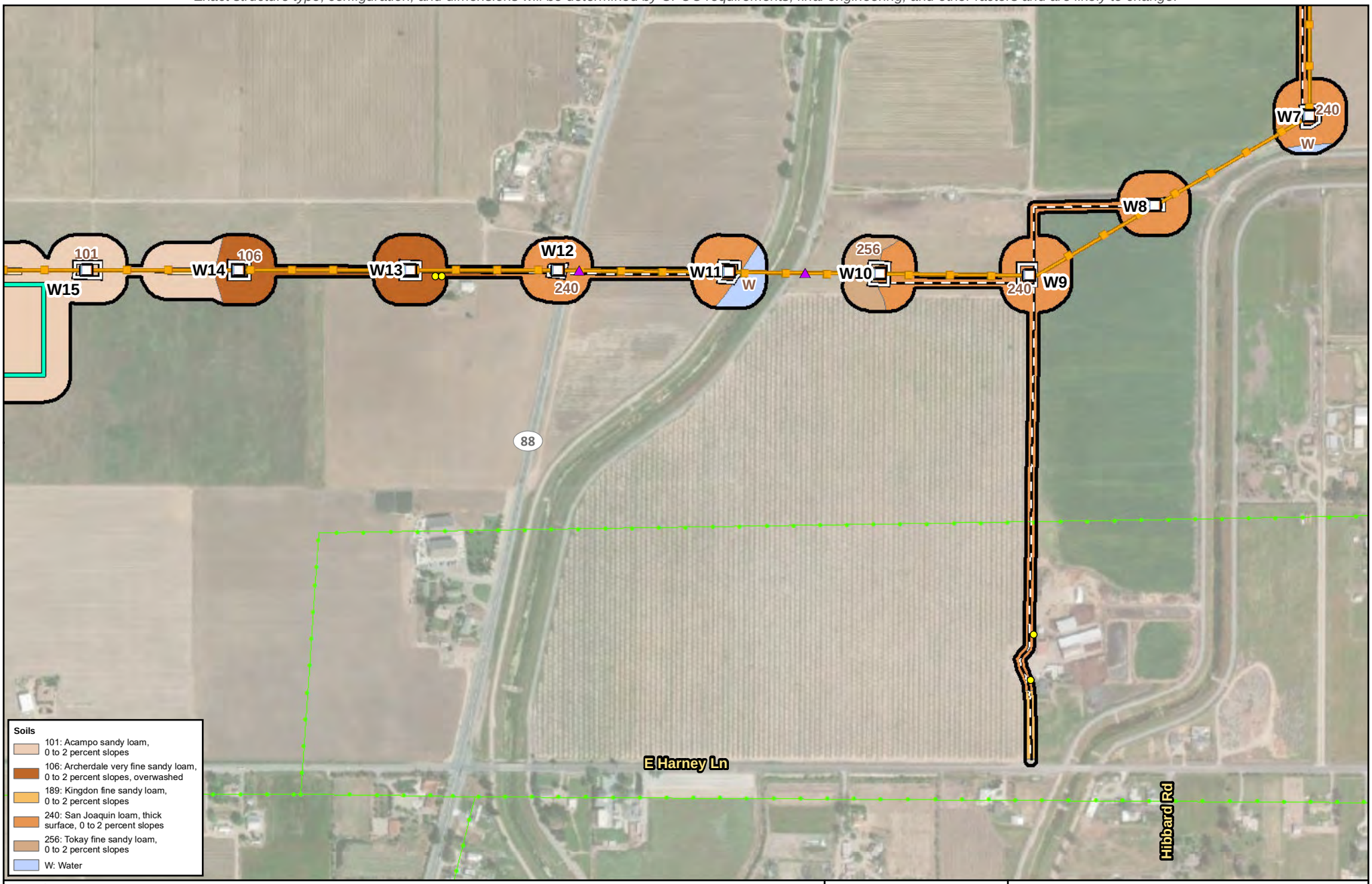

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Page 5 of 10
Northern San Joaquin 230 kV Transmission Project

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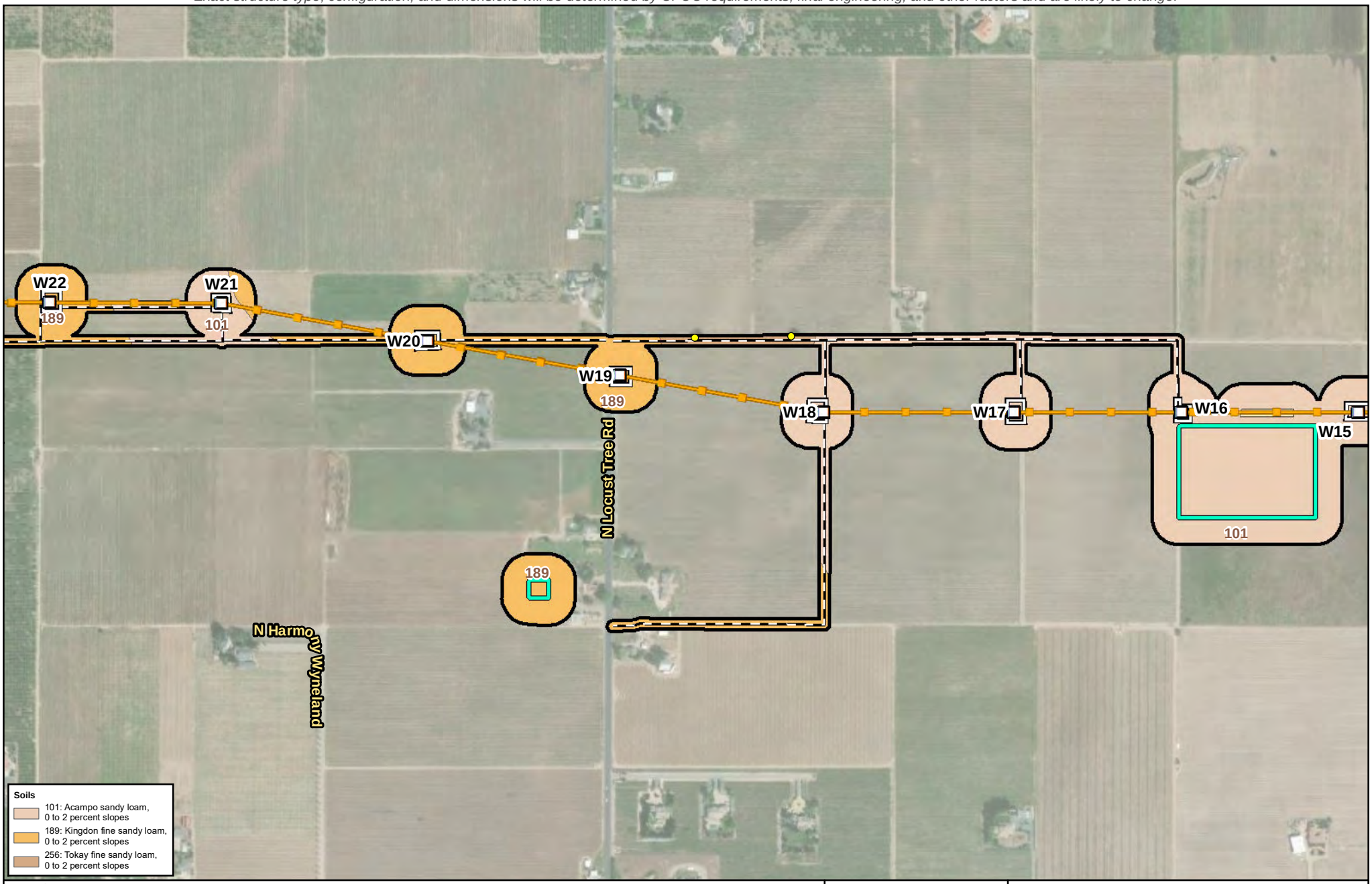

FIGURE 3
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Page 6 of 10
Northern San Joaquin 230 kV Transmission Project

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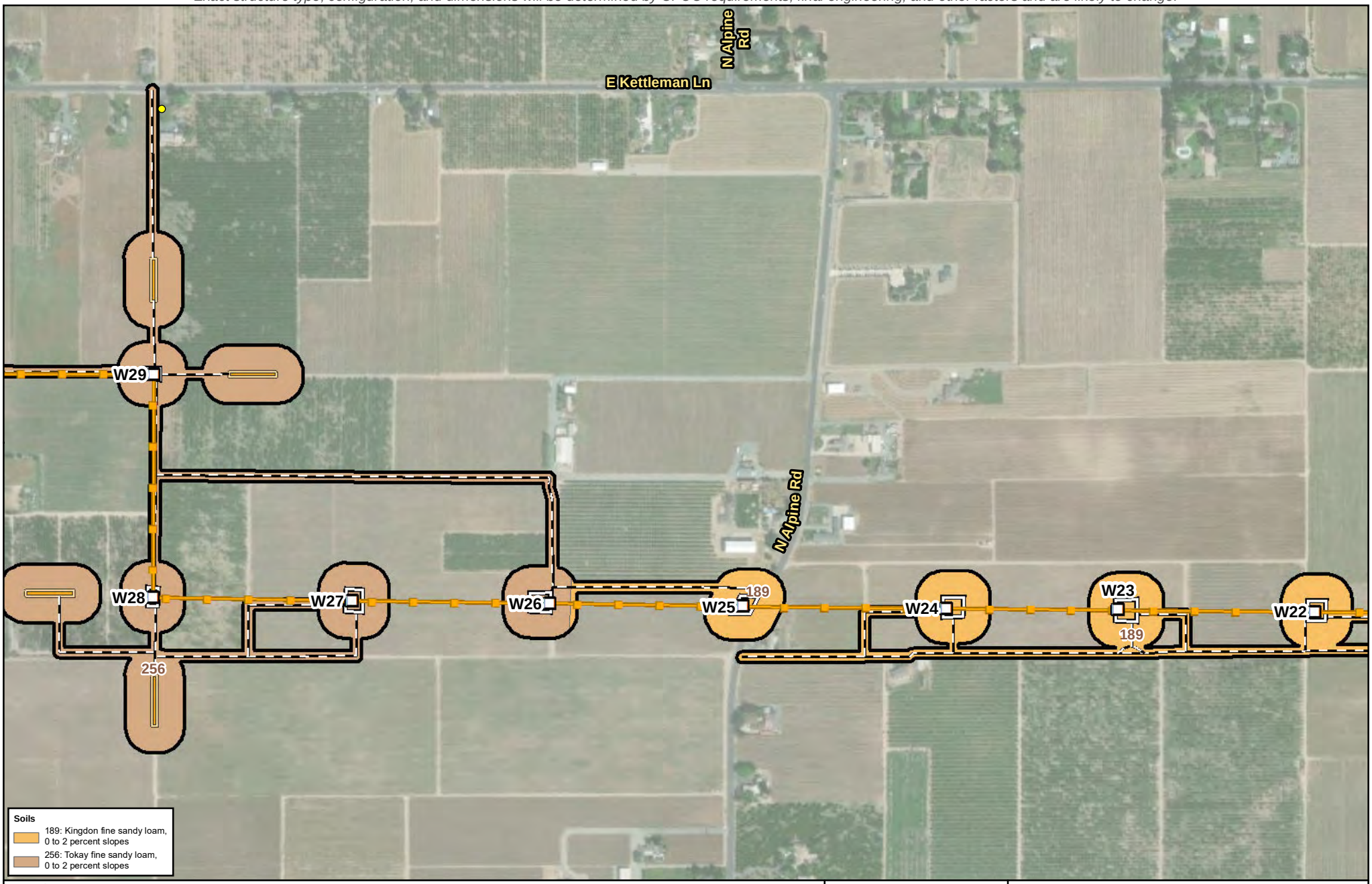

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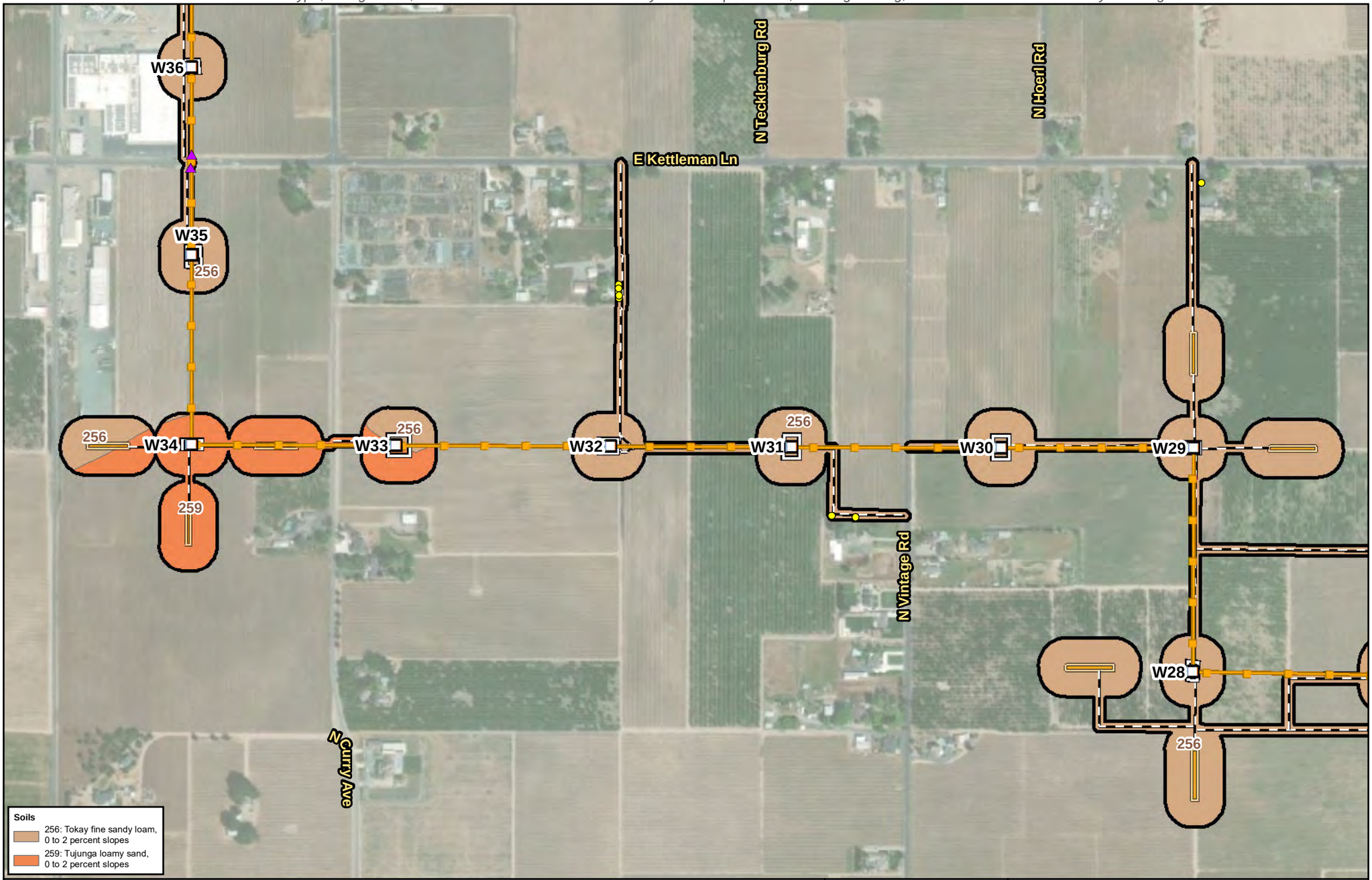

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Page 8 of 10
Northern San Joaquin 230 kV Transmission Project

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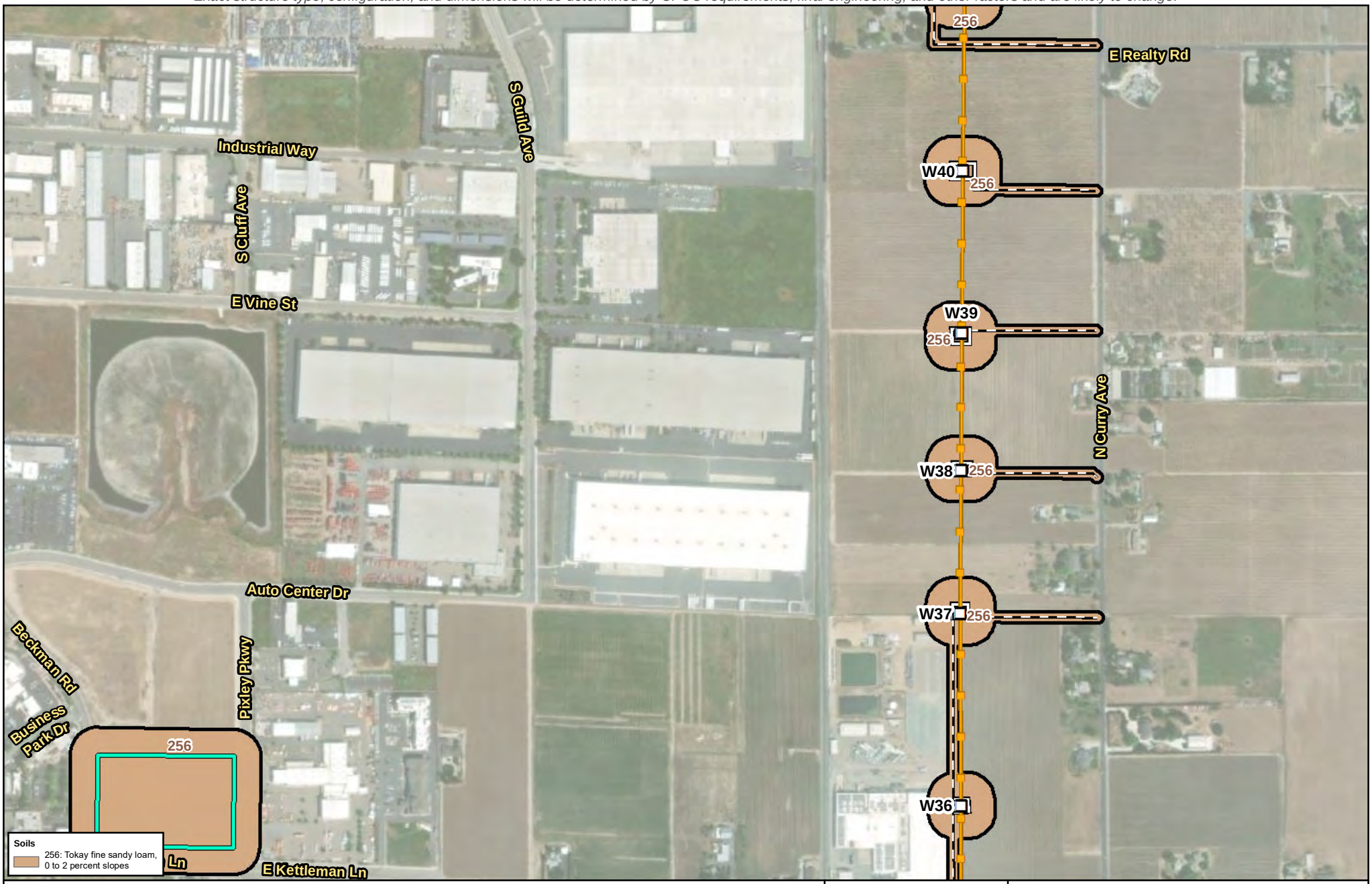

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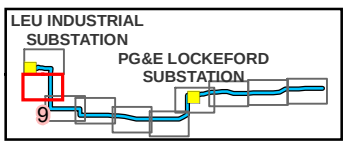

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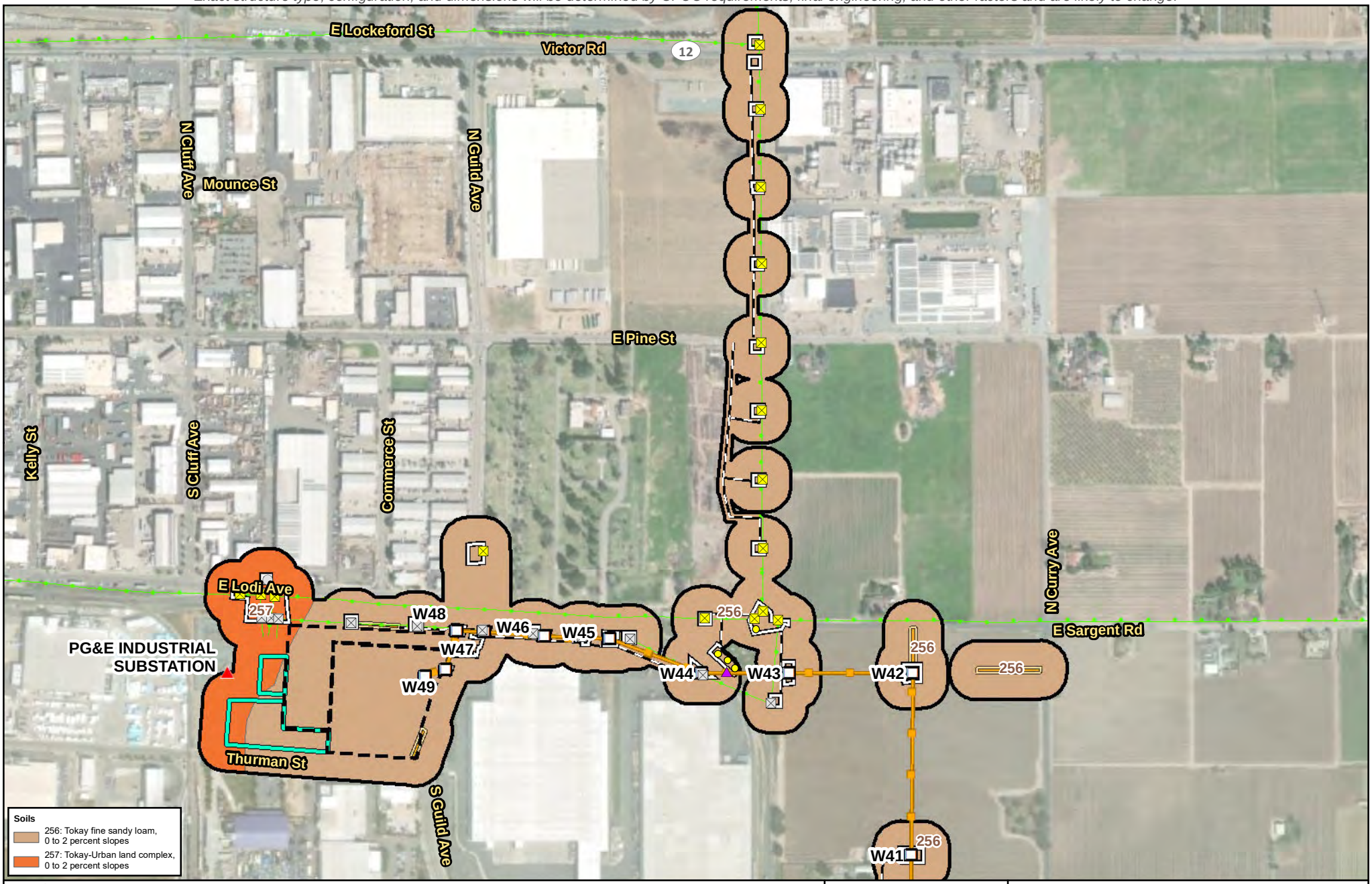

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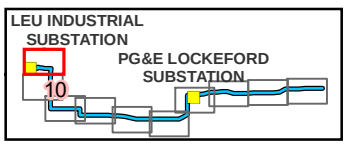

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Page 10 of 10
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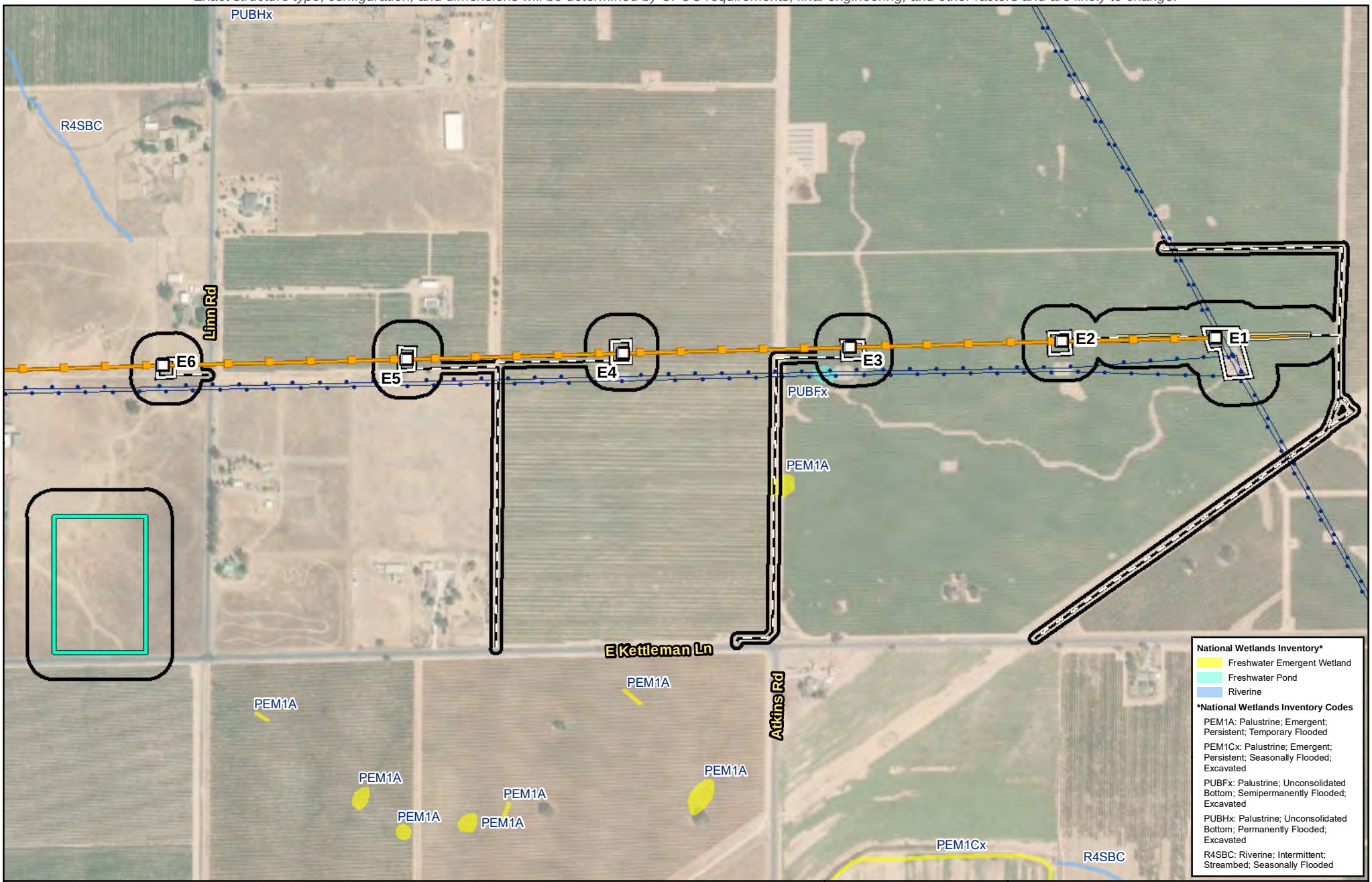

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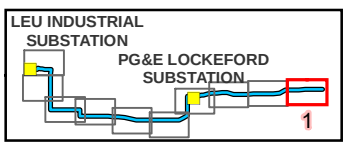

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FIGURE 4
National Wetland Inventory and National Hydrography Dataset

Northern San Joaquin 230 kV Transmission Project

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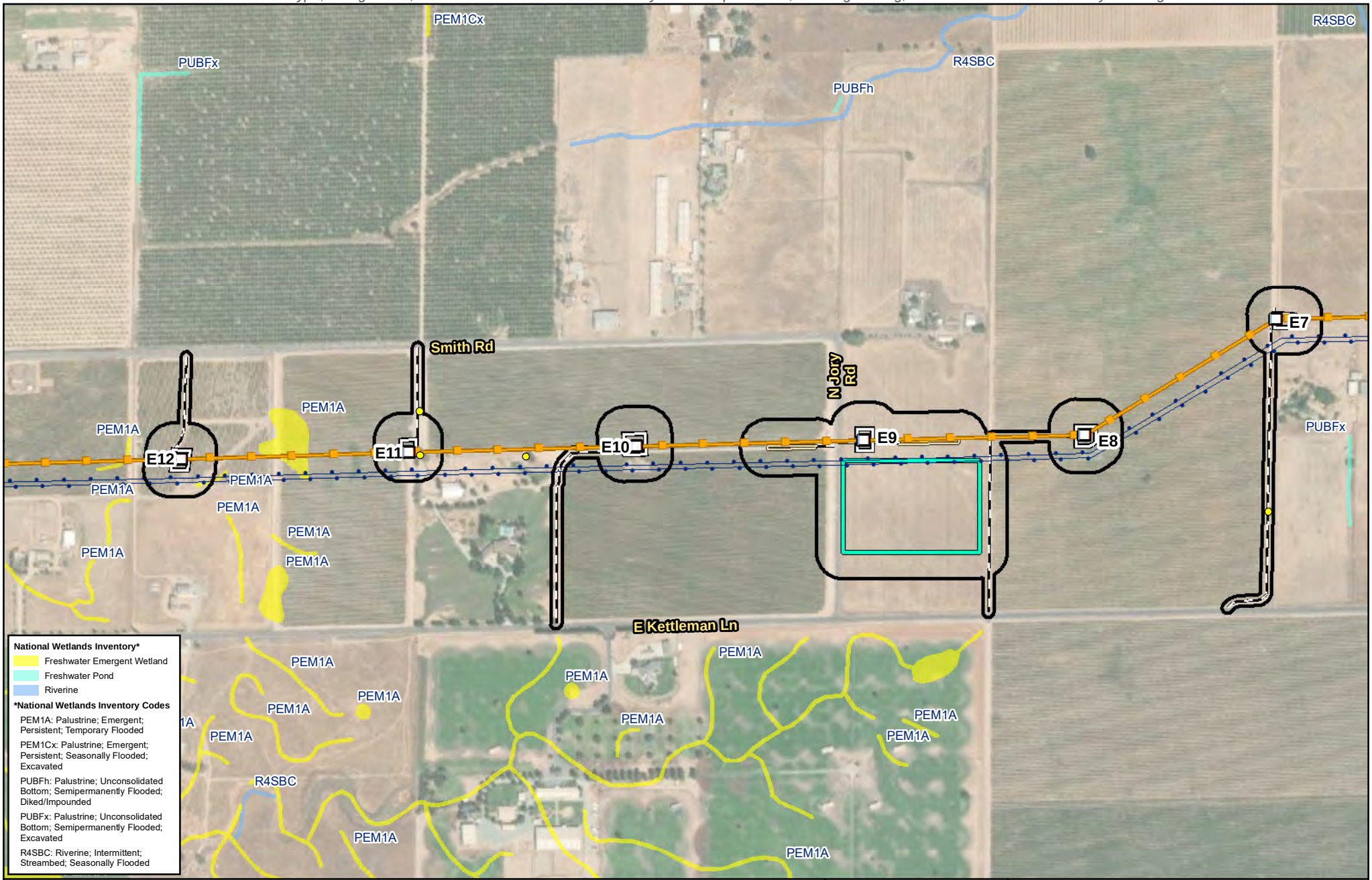

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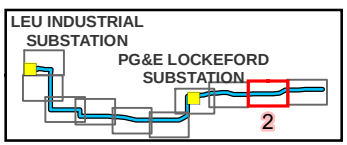

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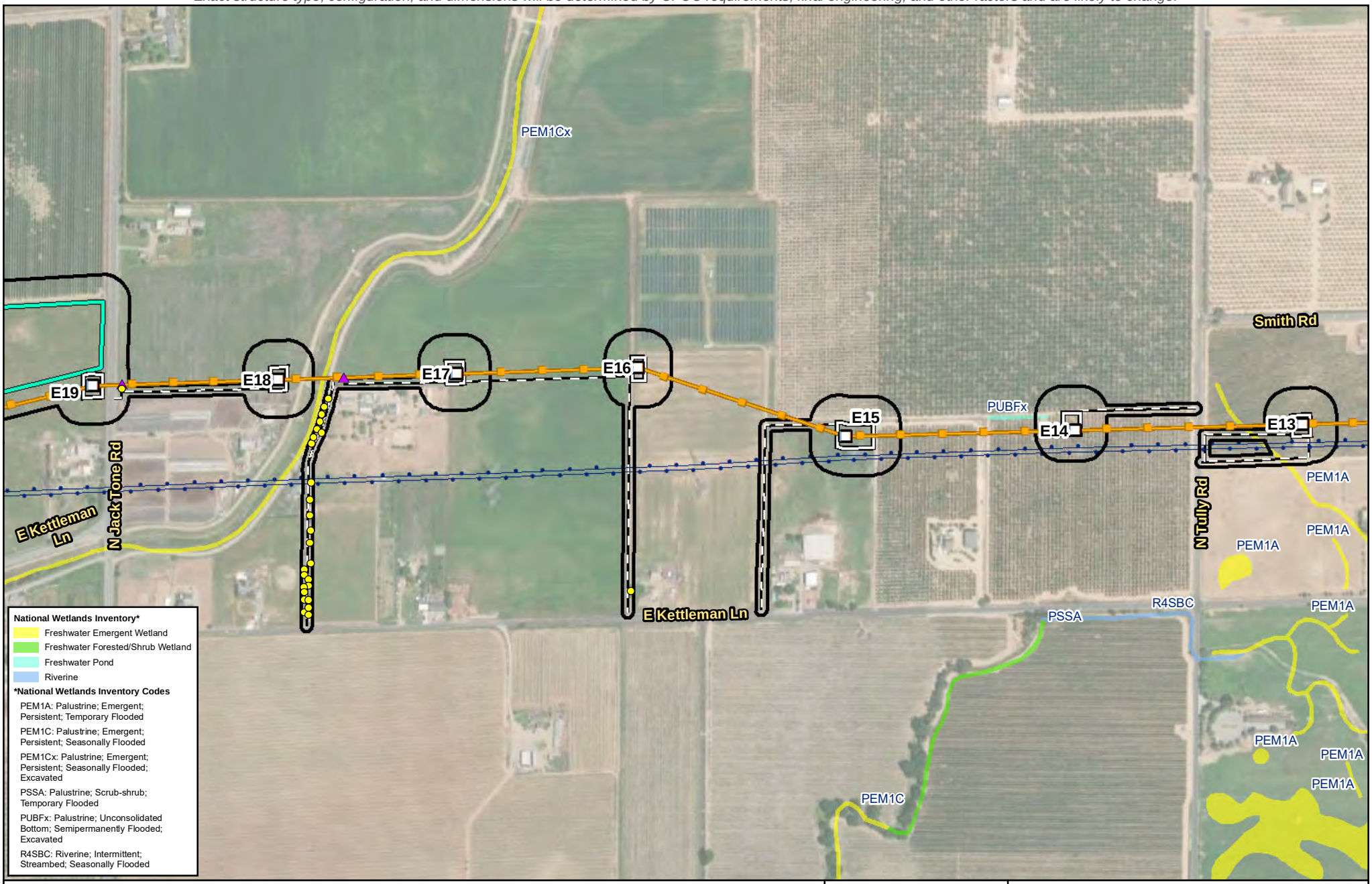

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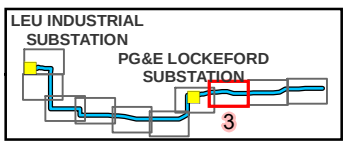

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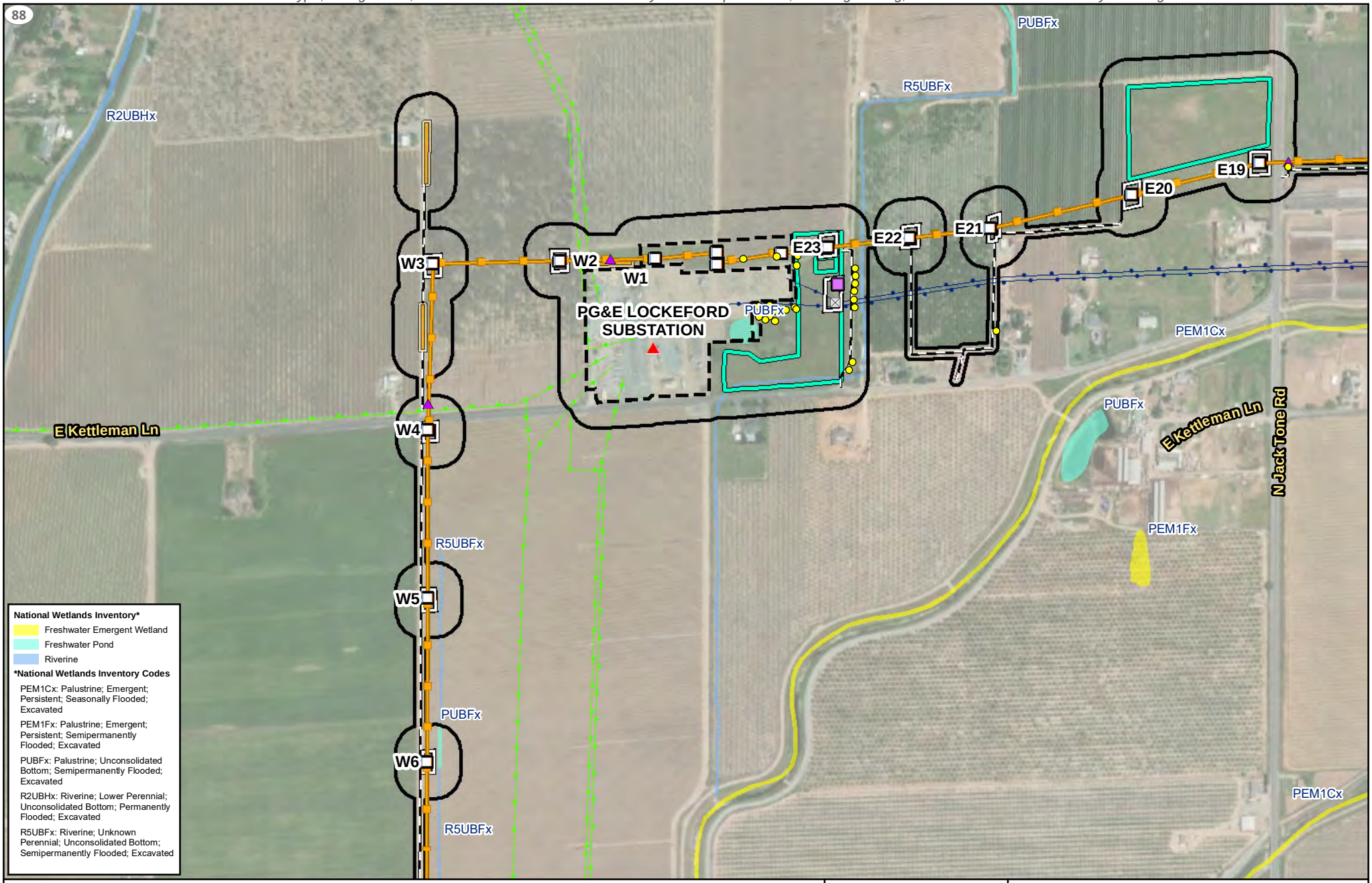

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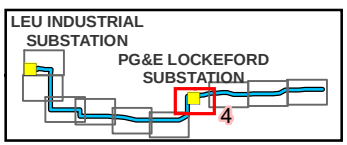

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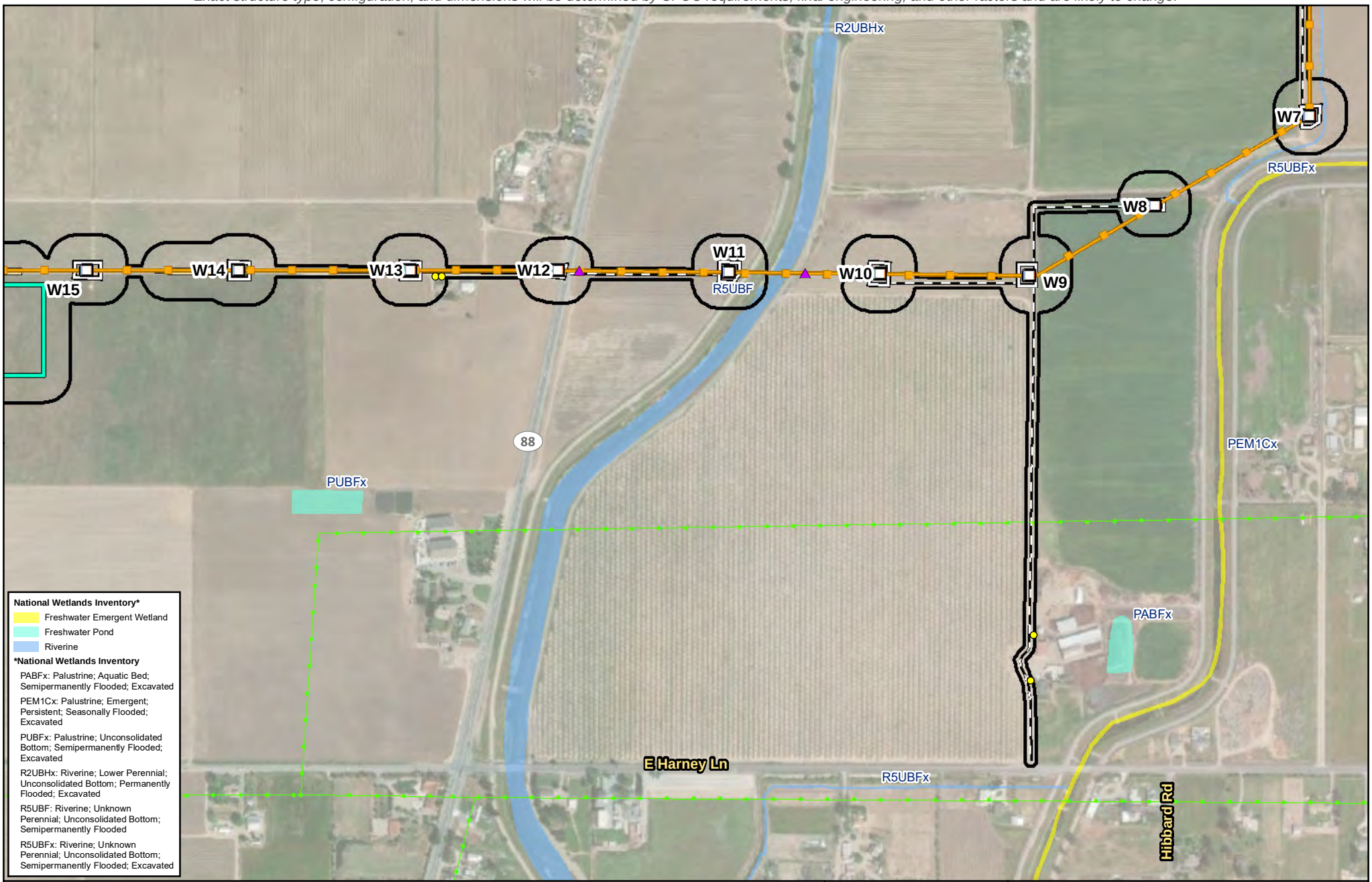

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FIGURE 4
National Wetland Inventory and National Hydrography Dataset
Page 5 of 10
Northern San Joaquin 230 kV Transmission Project

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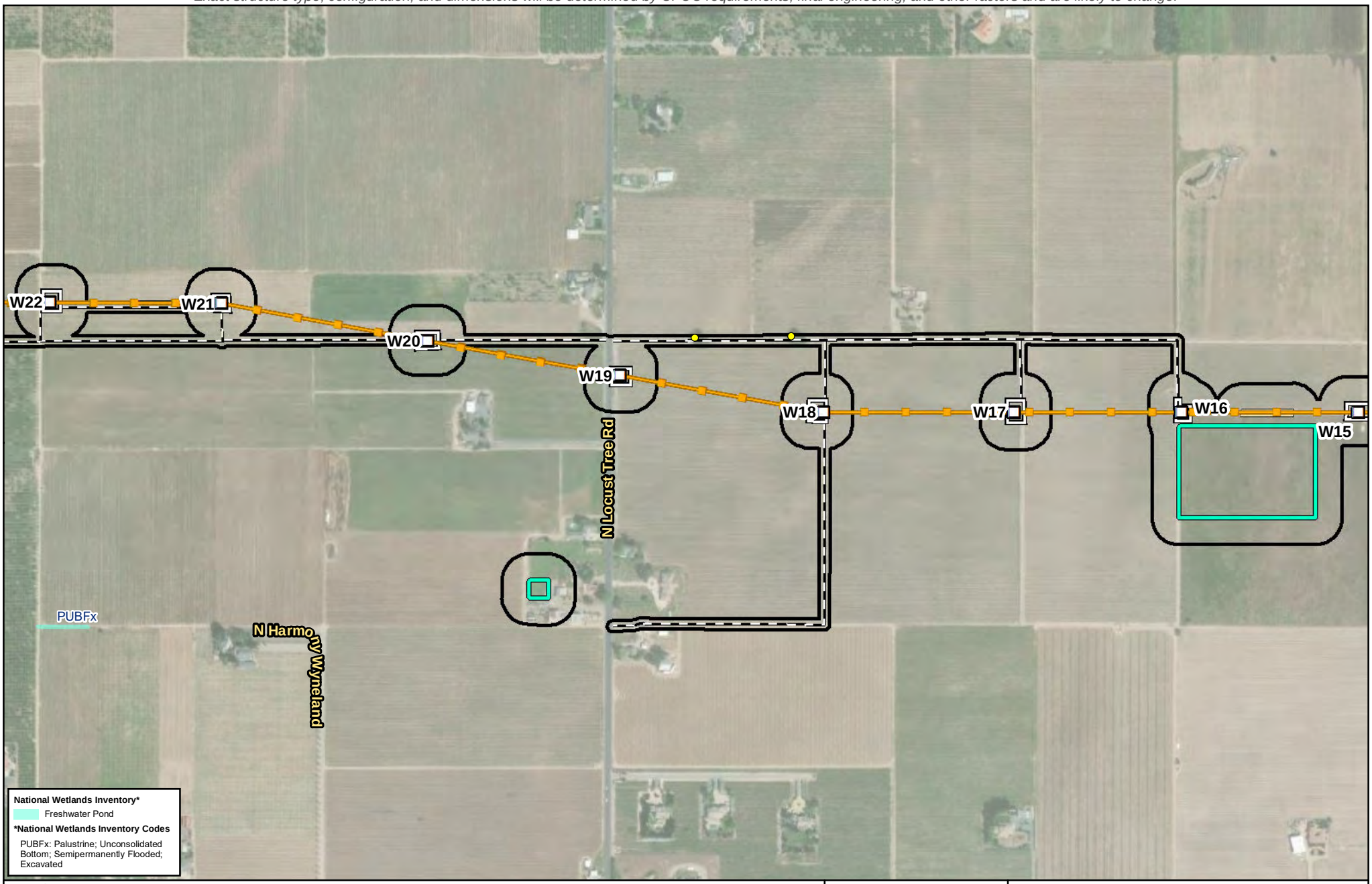

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National Wetland Inventory and National Hydrography Dataset
Page 6 of 10
Northern San Joaquin 230 kV Transmission Project

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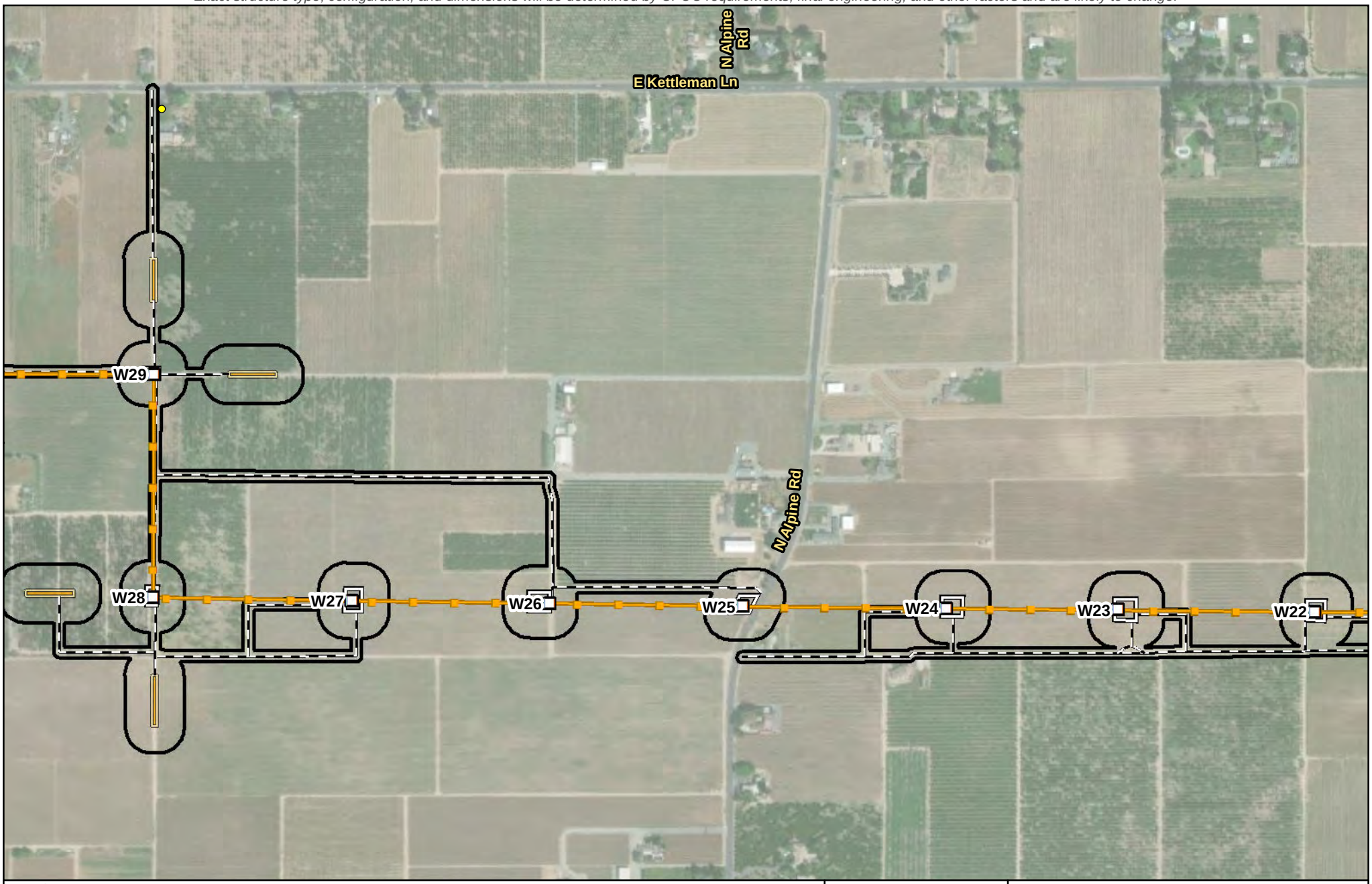

Legend

- Biological Study Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
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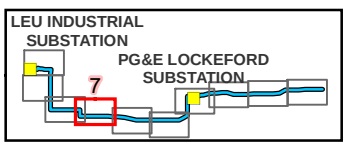
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Potential Tree Trimming or Removal



Source:
1) Esri World Imagery

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Scale: 1:7,200

FIGURE 4
National Wetland Inventory and National Hydrography Dataset

Northern San Joaquin 230 kV Transmission Project

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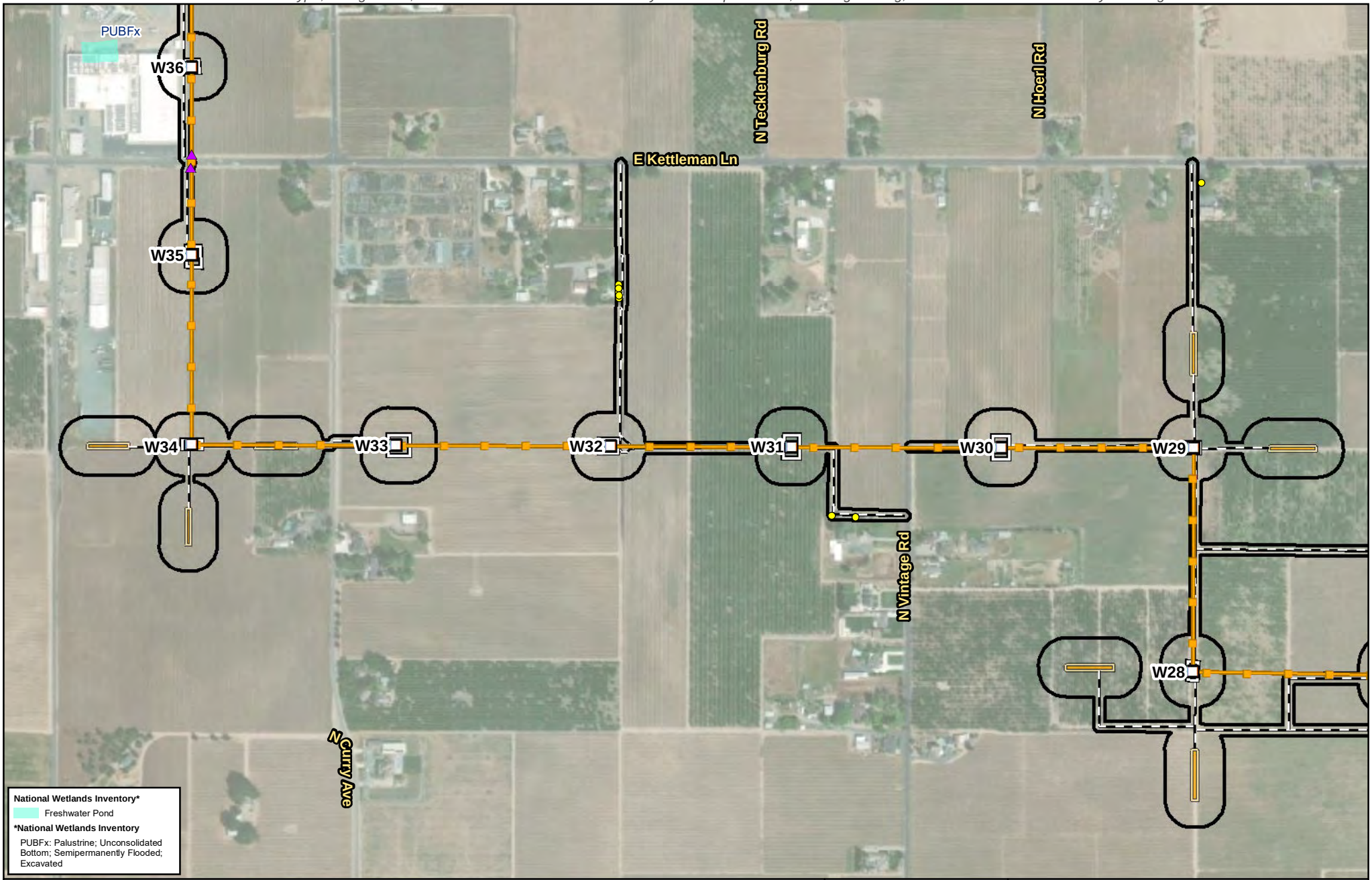

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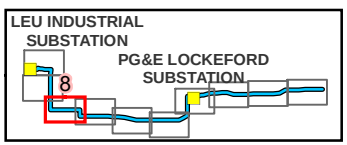

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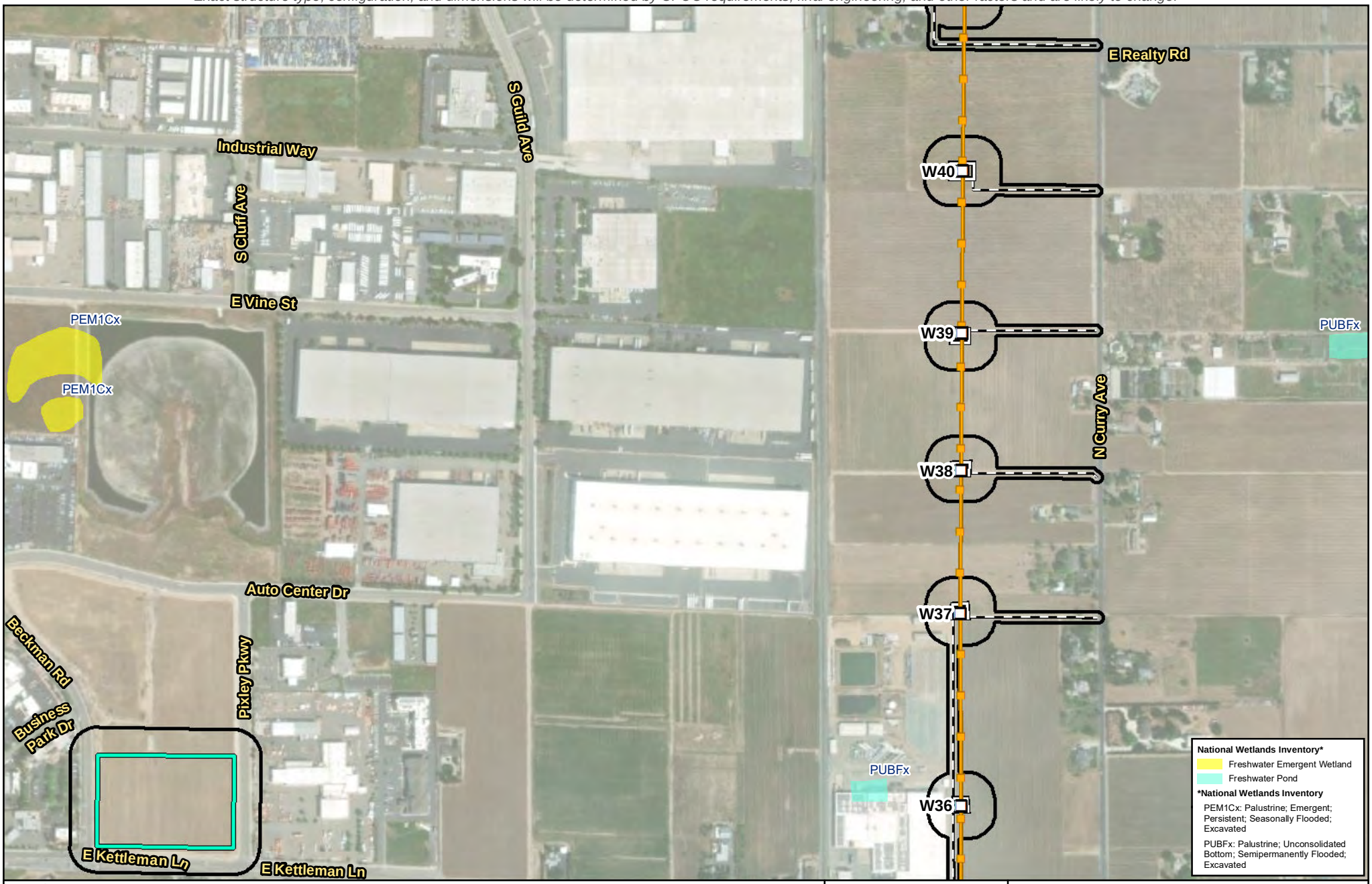

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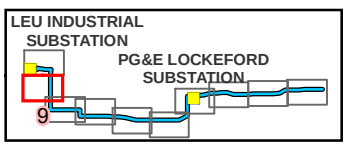

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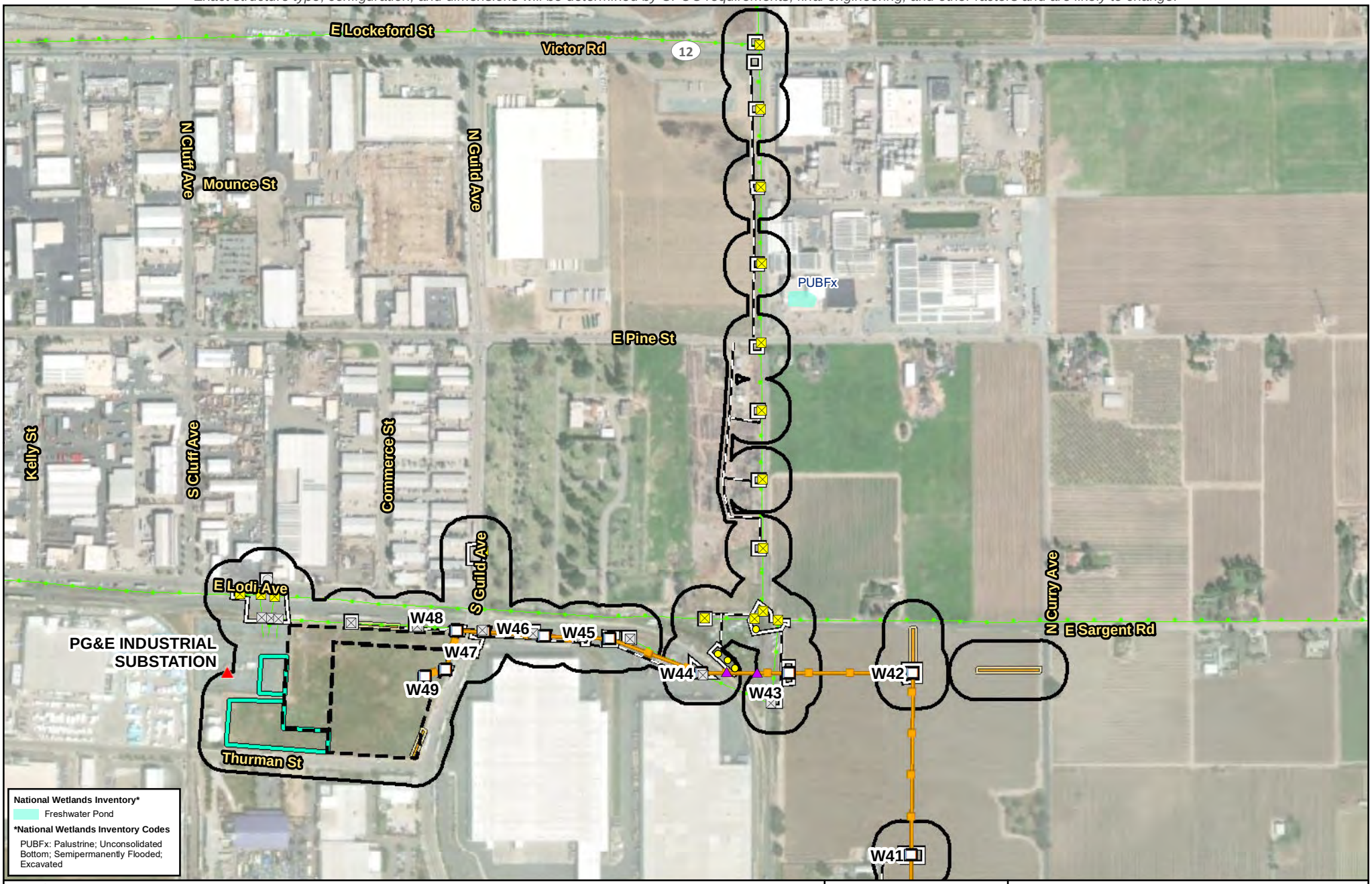

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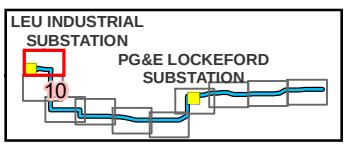

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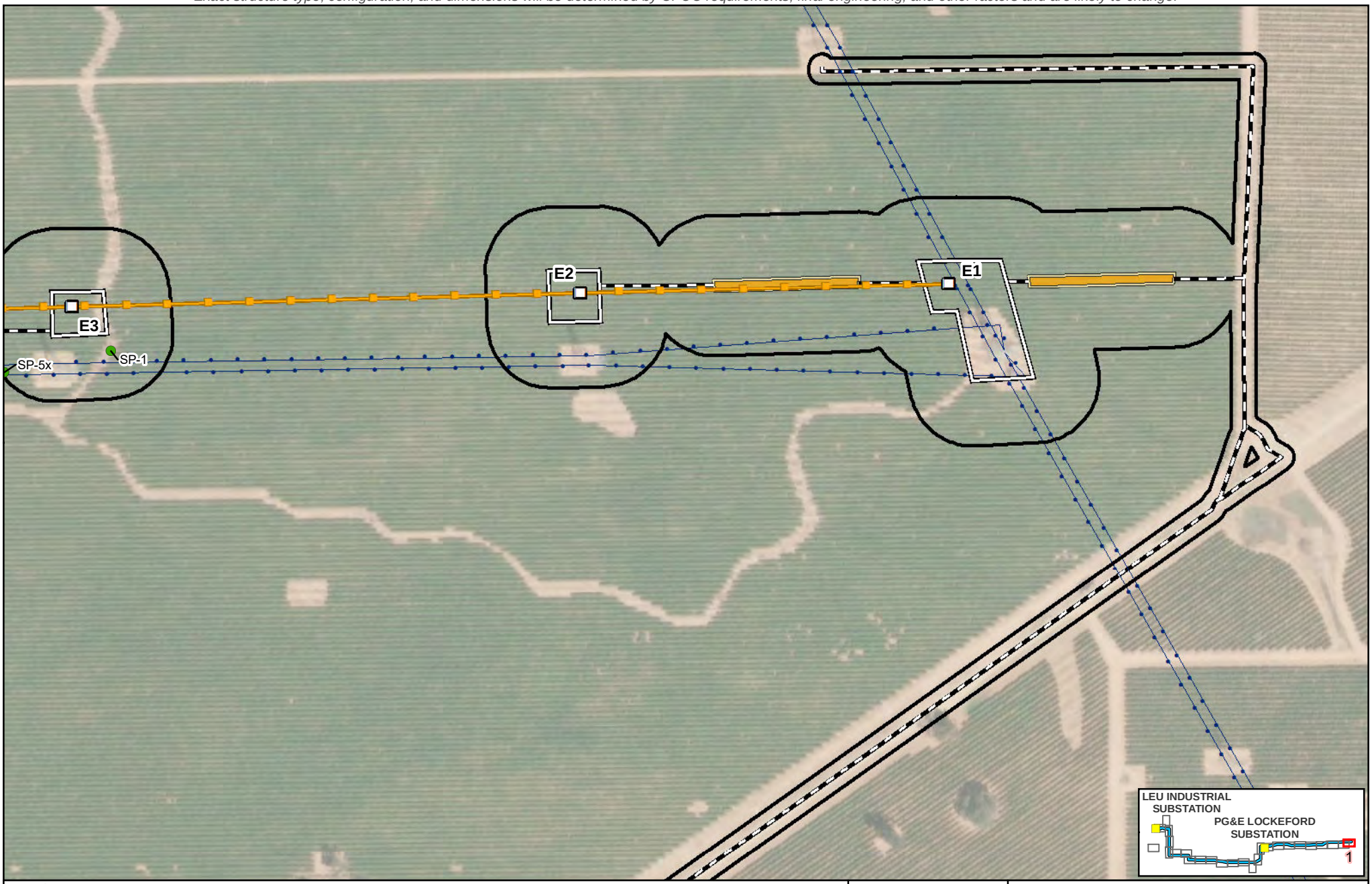

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5
Aquatic Resource Delineation
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

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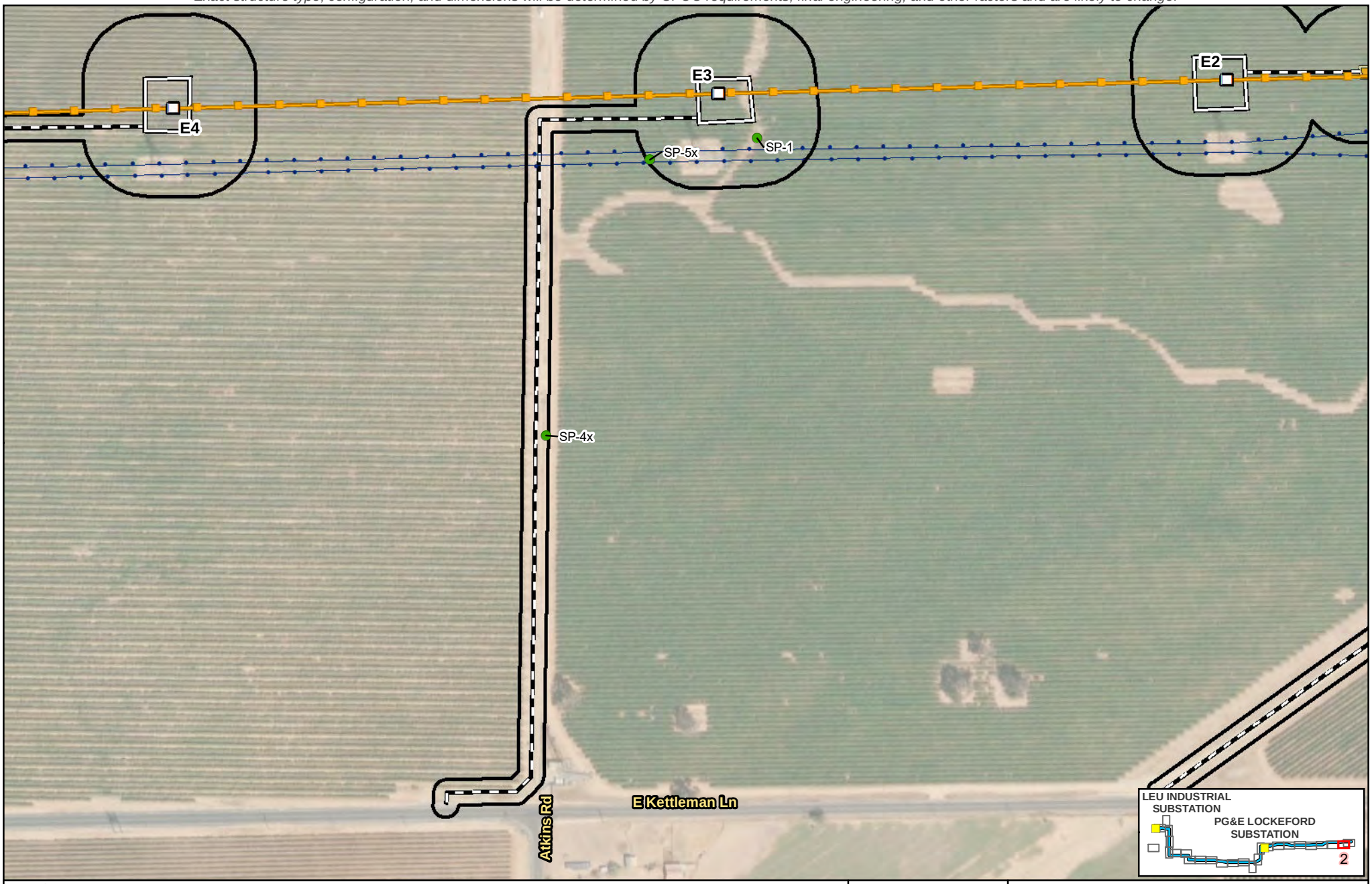

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Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5
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Page 2 of 26
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\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Delineation\Figure_5_230818.mxd kgrant1 8/21/2023

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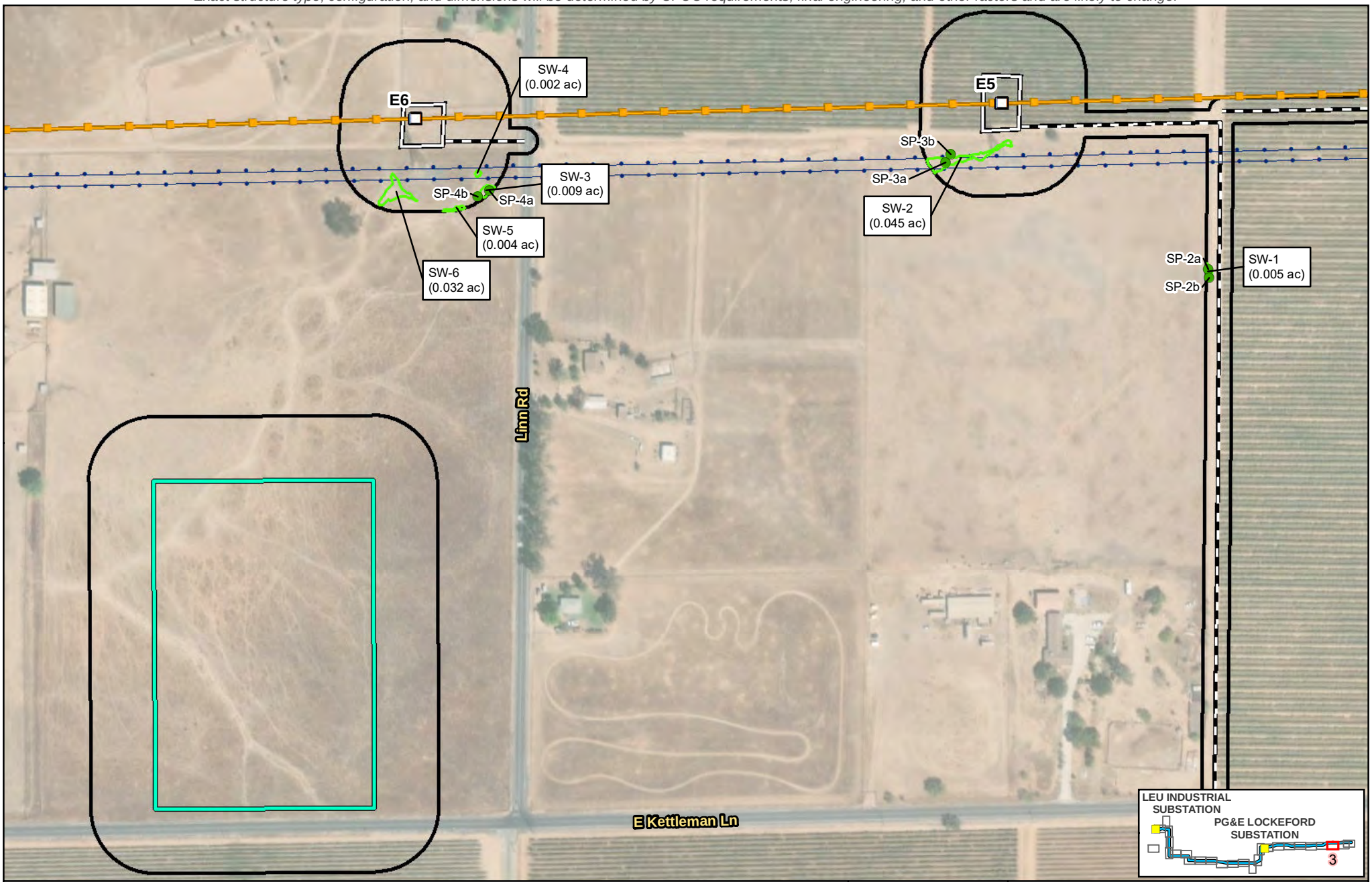

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Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale:
1:3,000

0 100 Feet

FIGURE 5
Aquatic Resource Delineation
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

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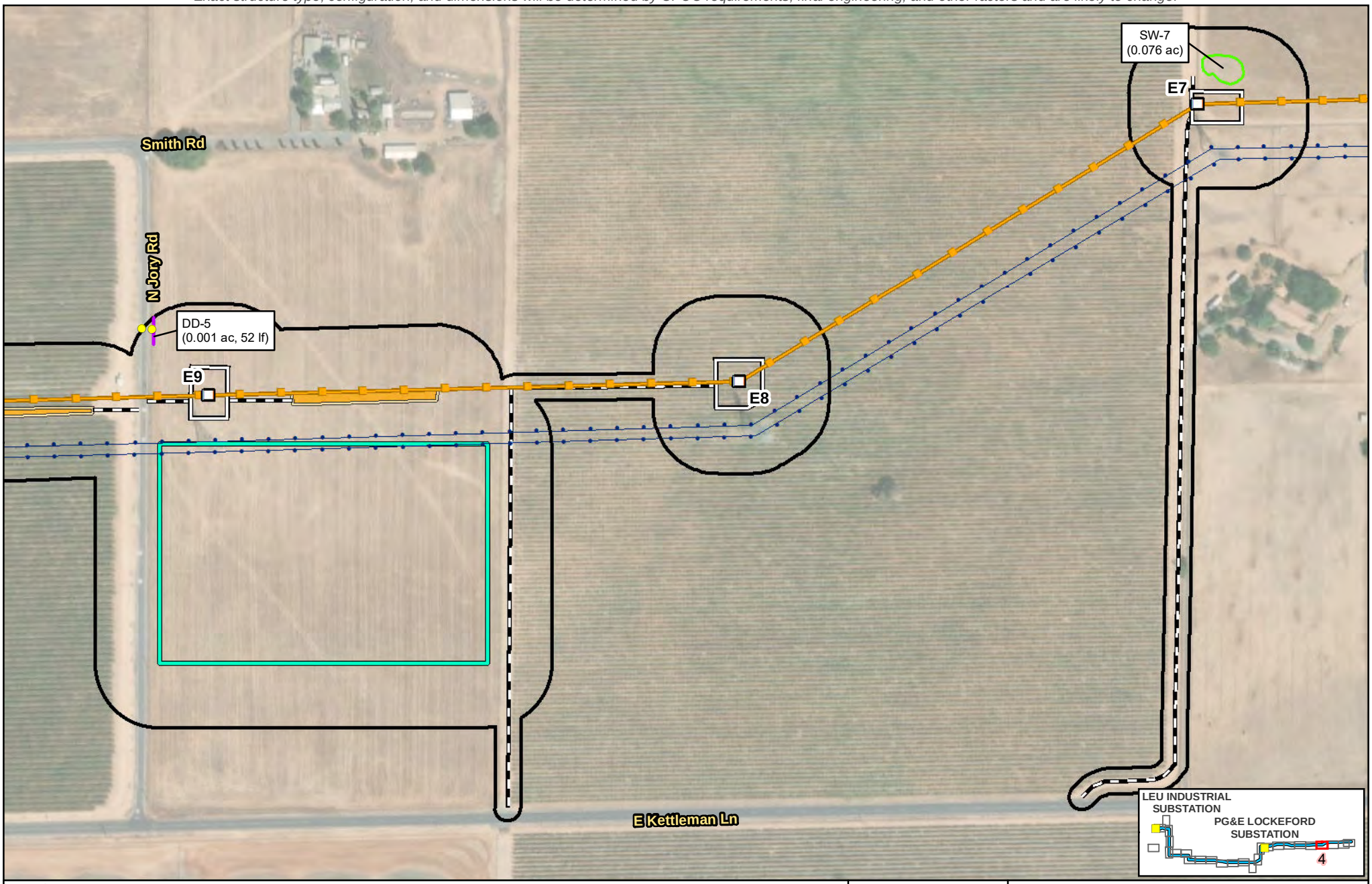

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Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5
Aquatic Resource Delineation
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

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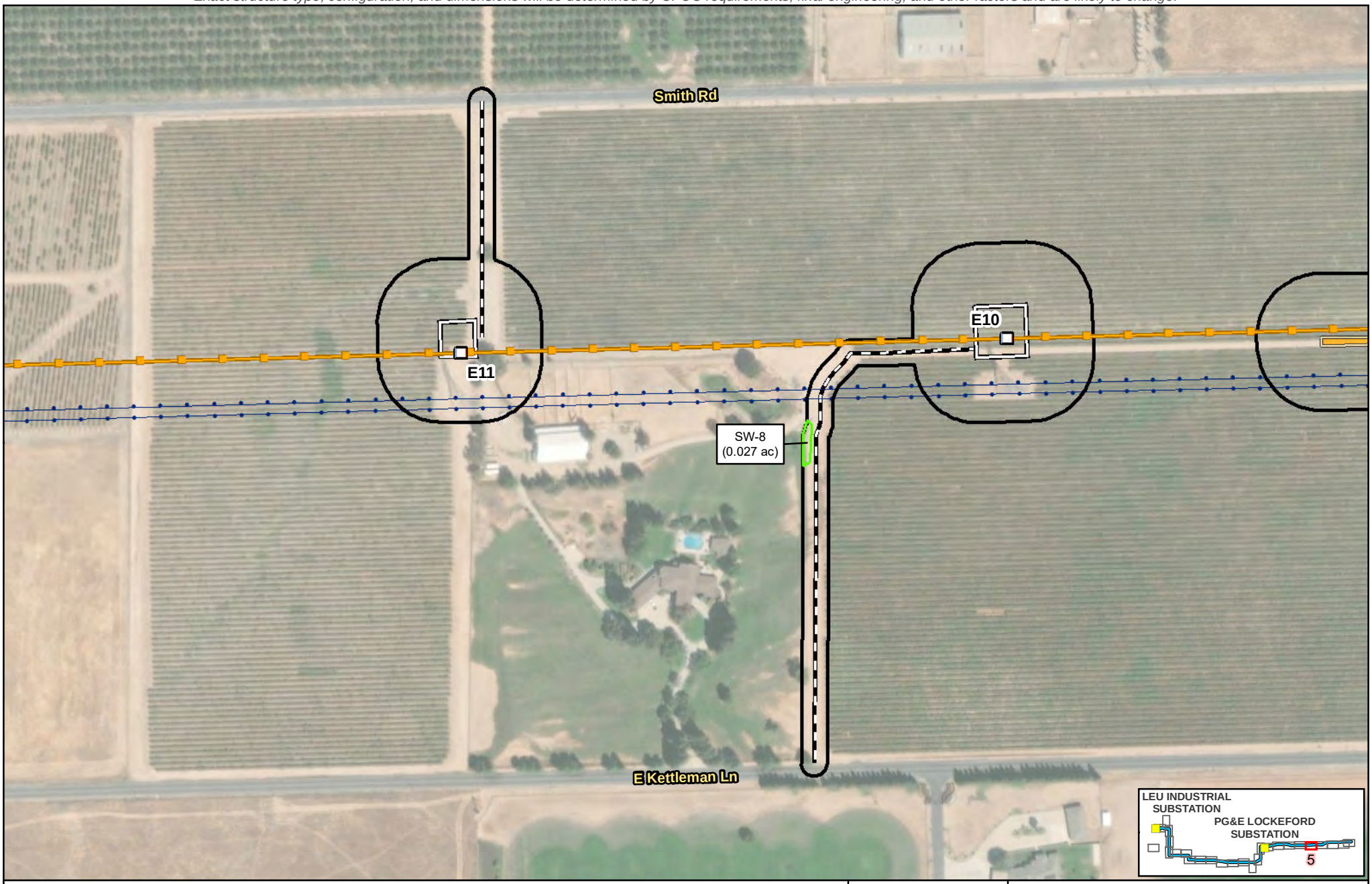

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FIGURE 5
Aquatic Resource Delineation
Page 5 of 26
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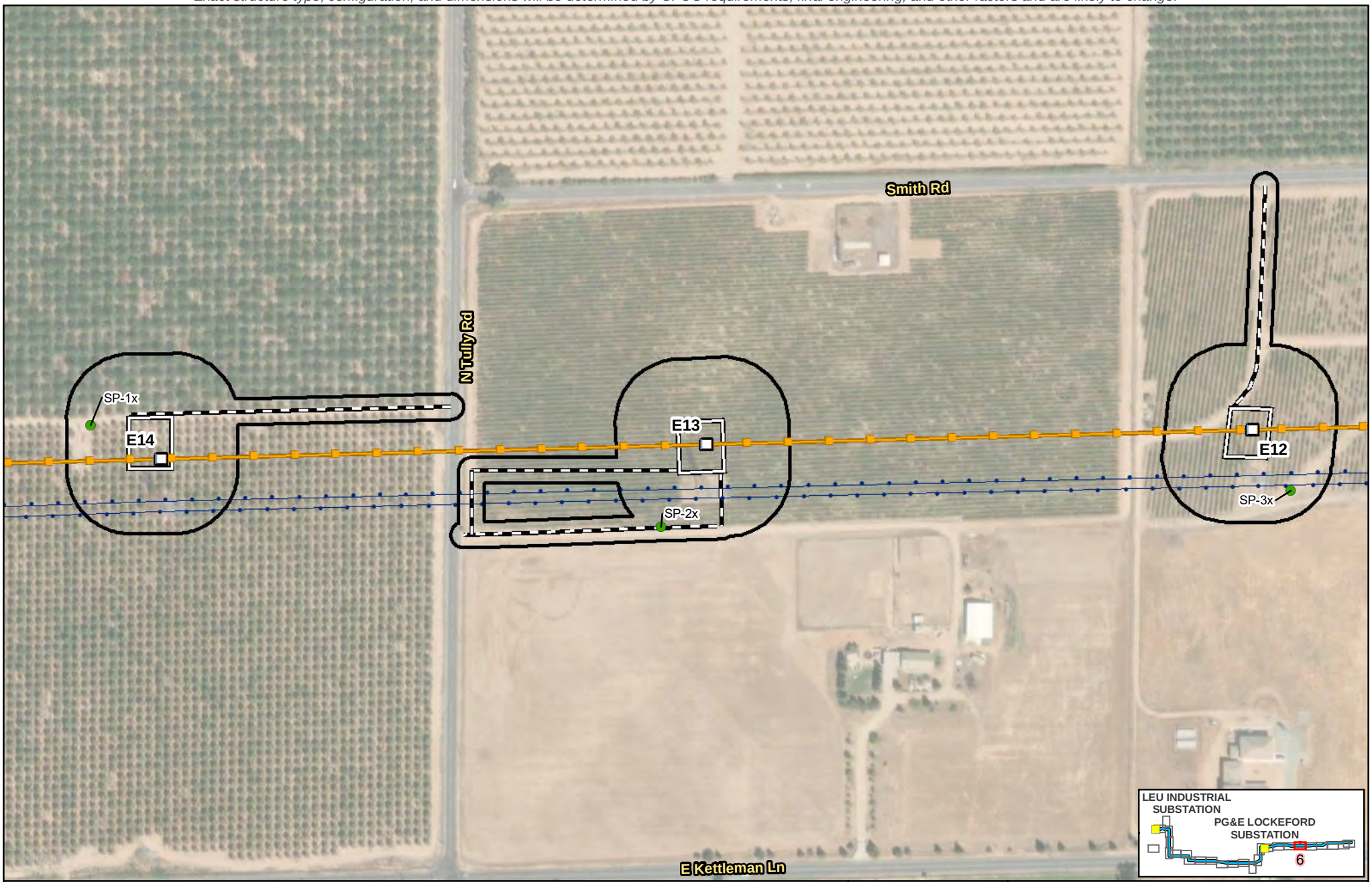

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- Wetland Sample Point

Source:
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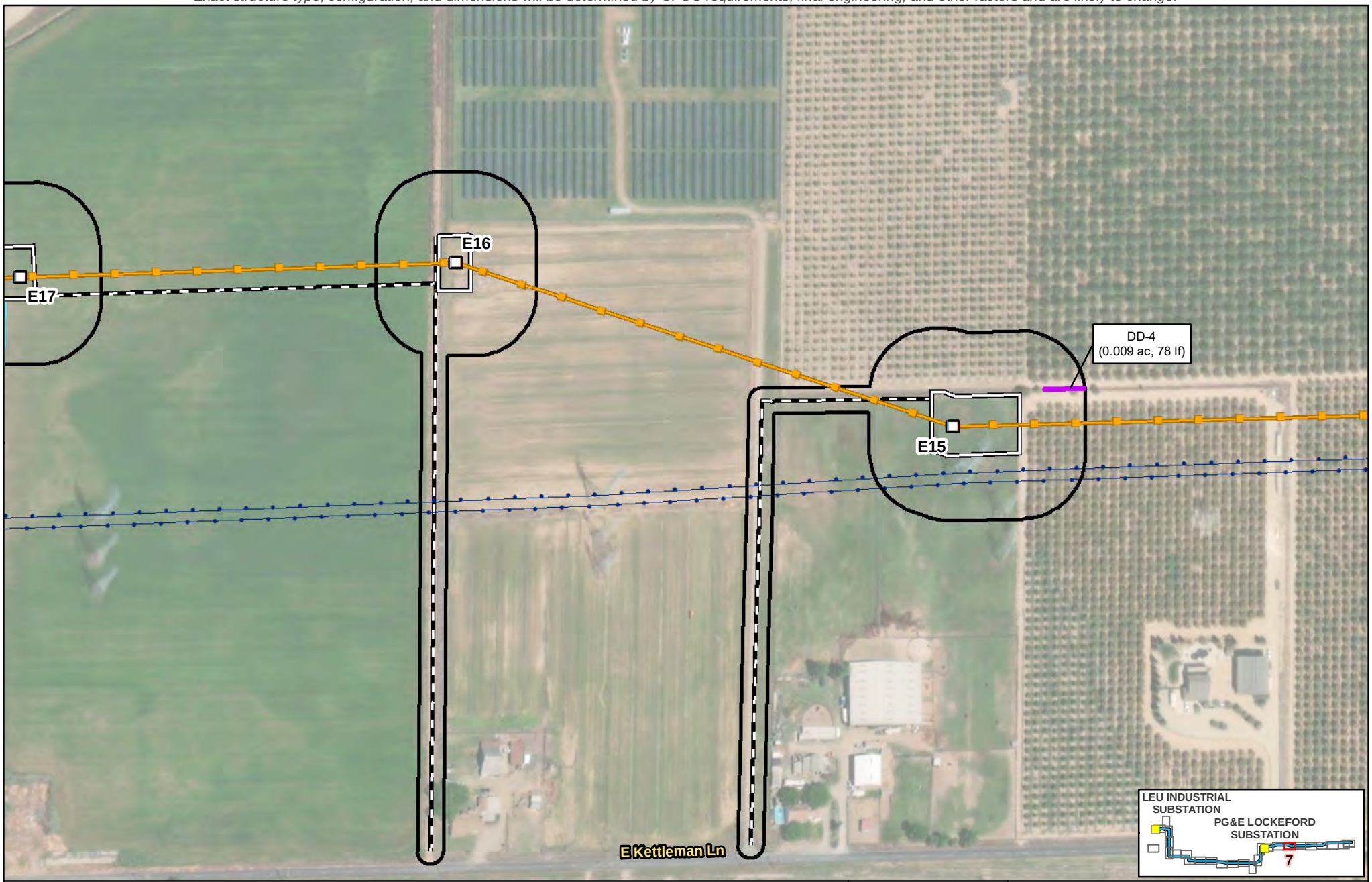

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Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

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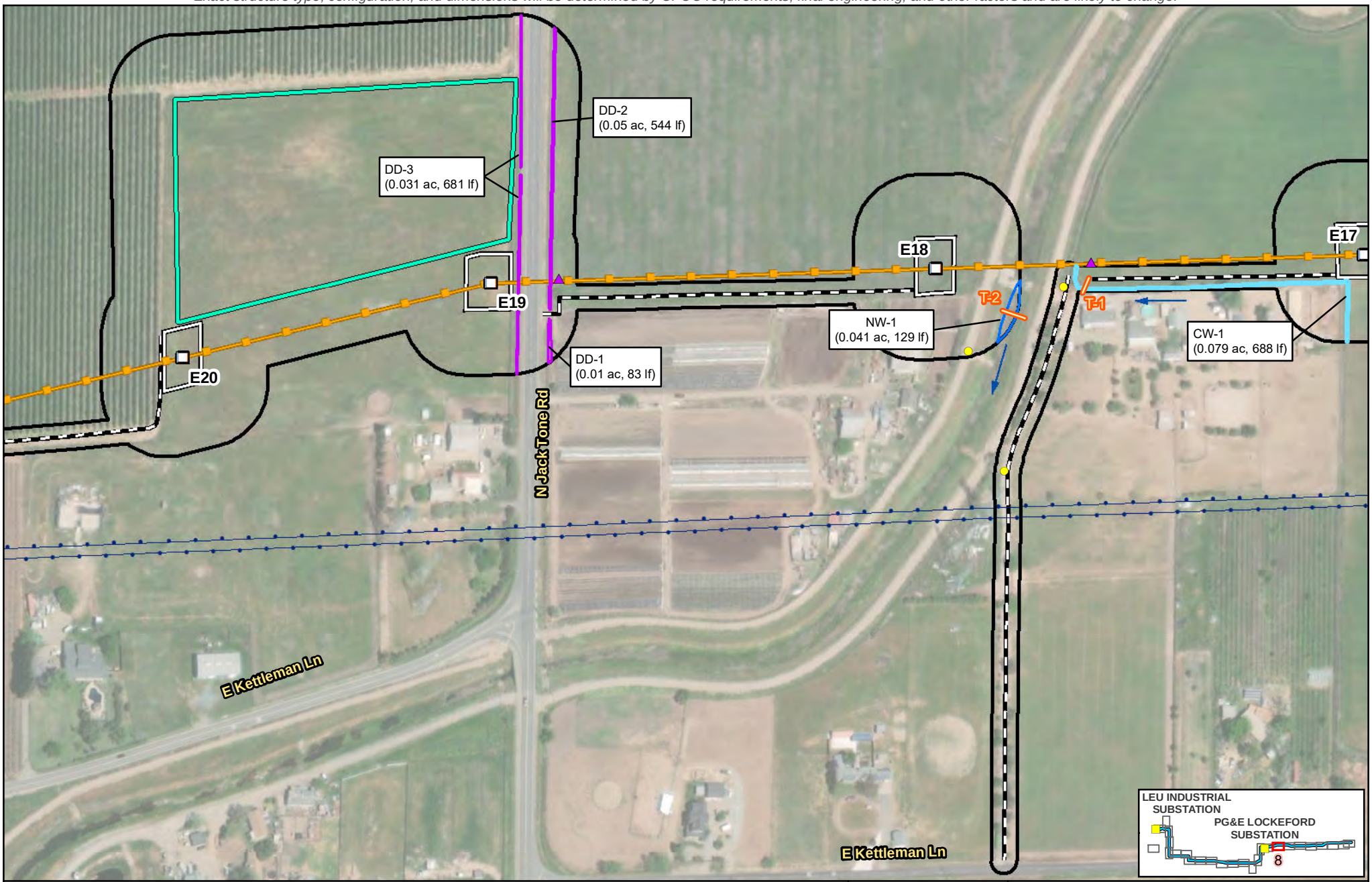

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Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Natural Watercourse (NW) (0.247 ac, 359 lf)
- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert
- Flow Direction
- Transect

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

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Page 8 of 26
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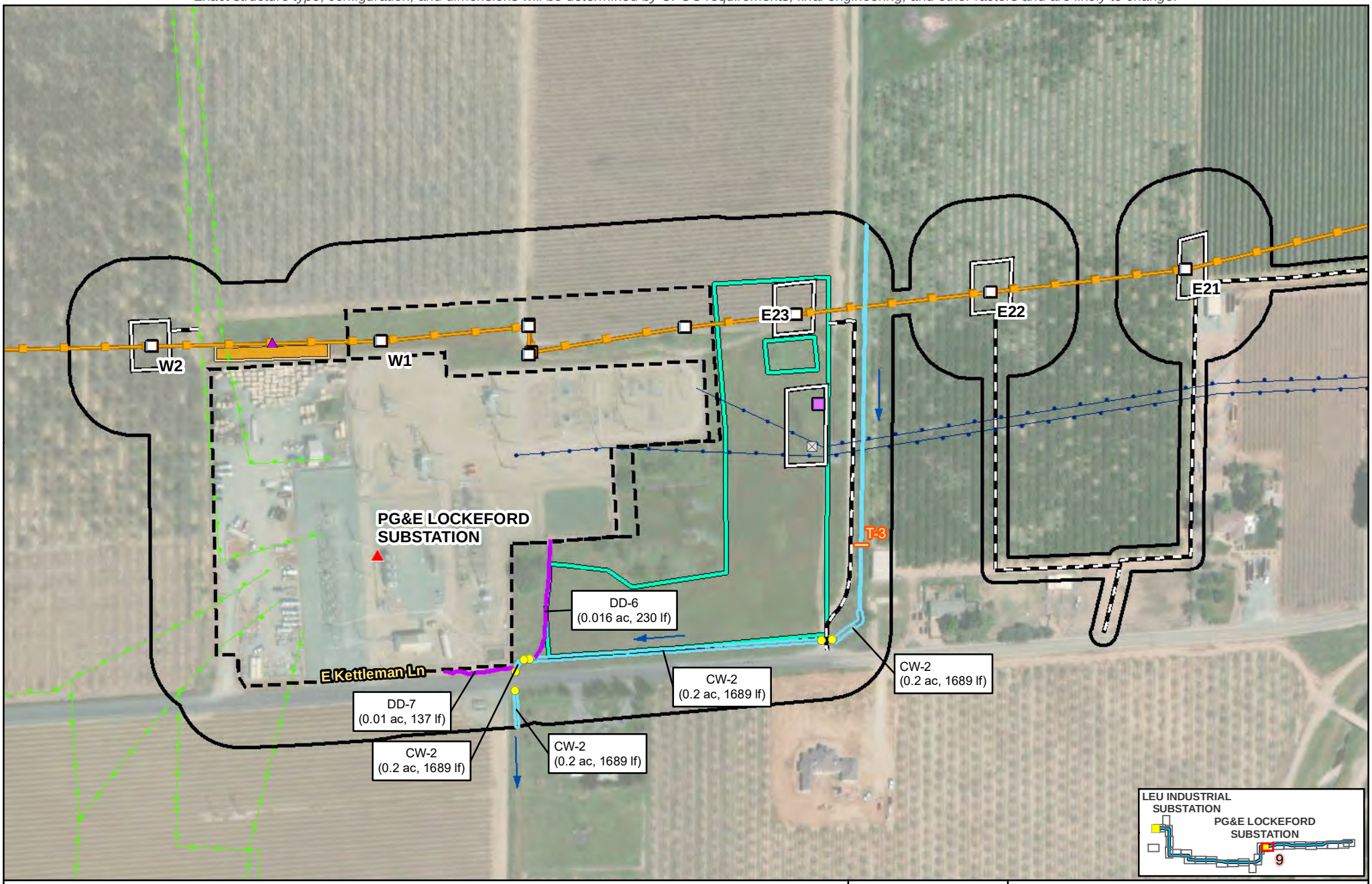

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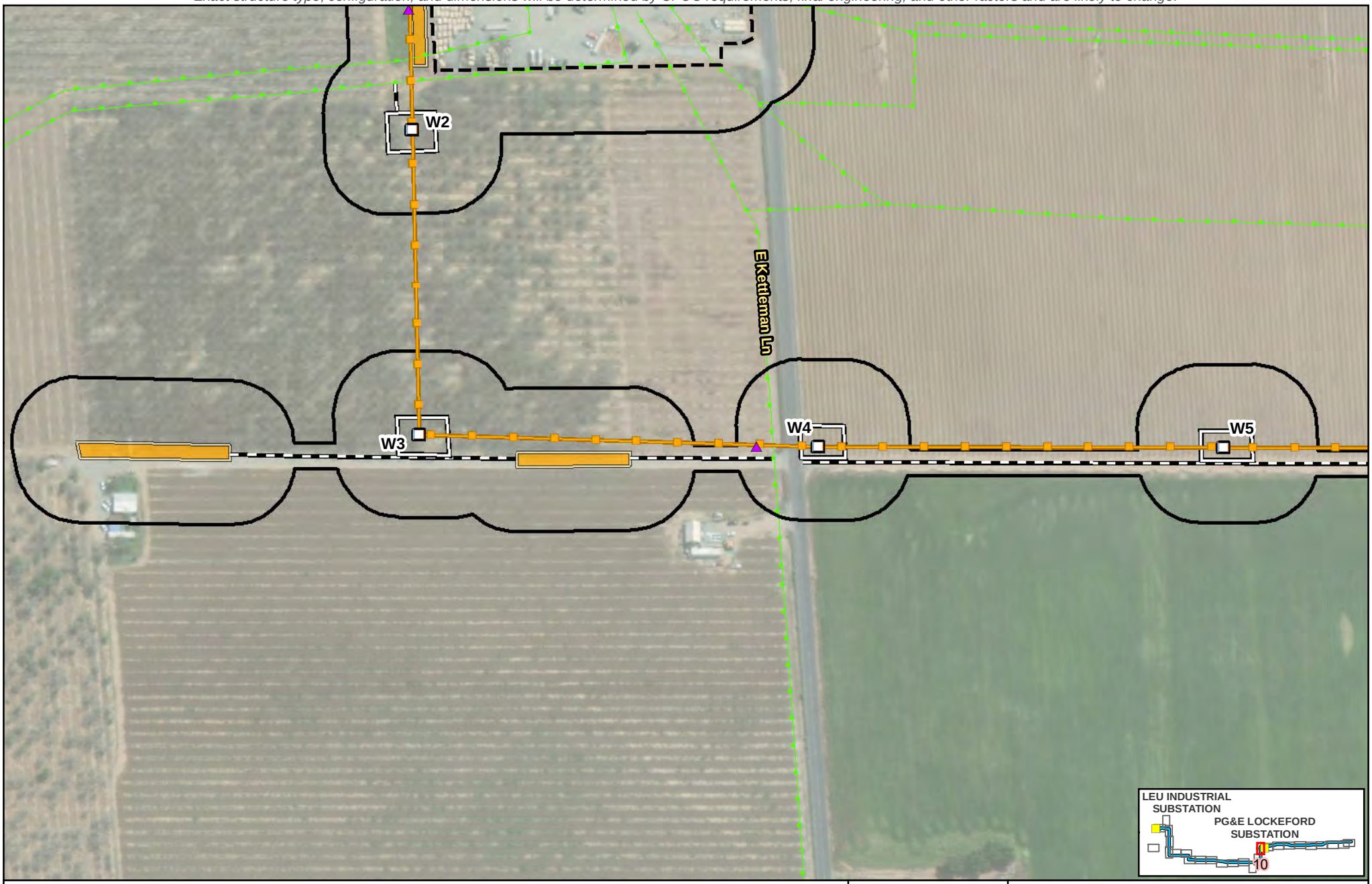

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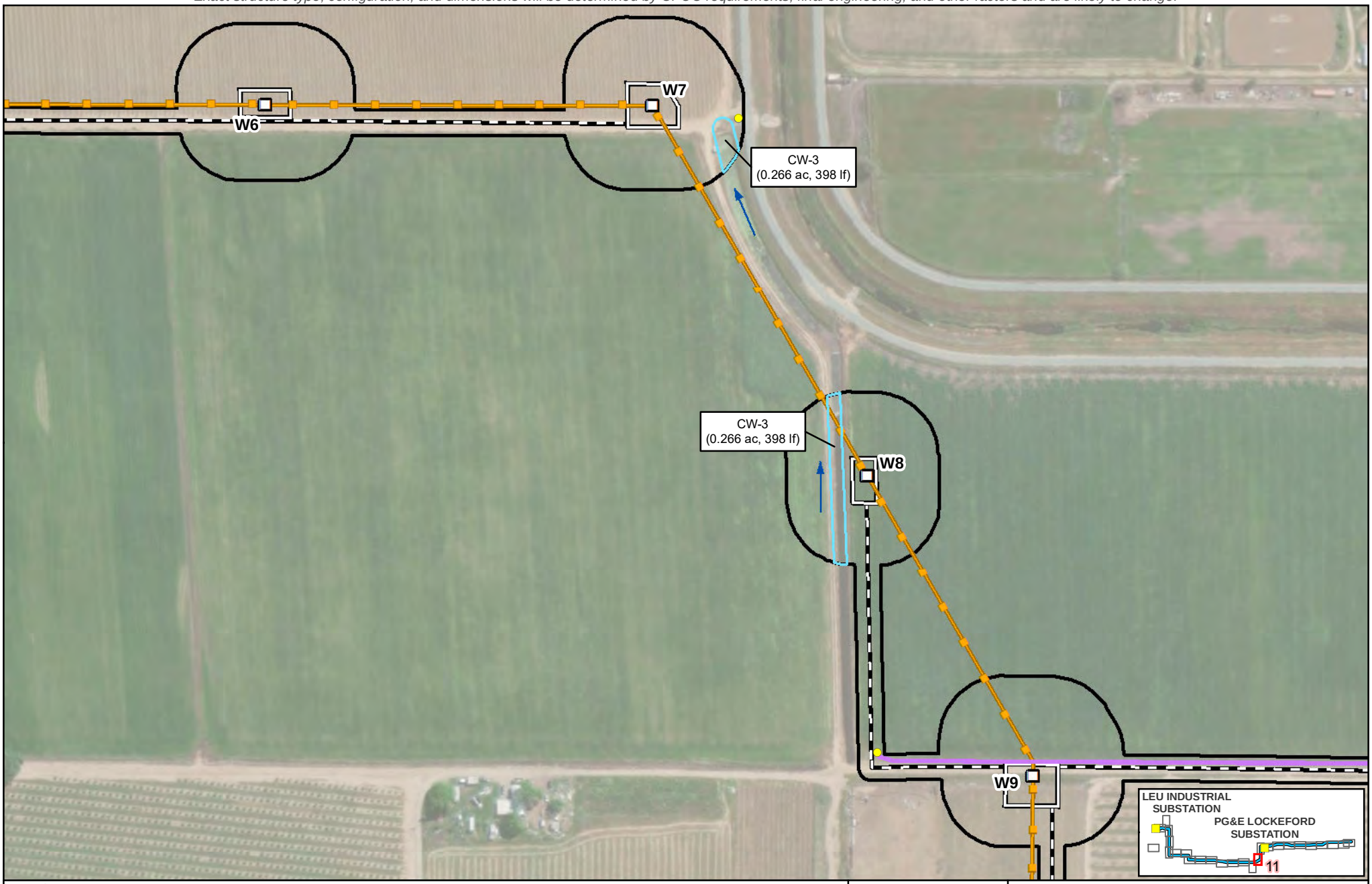

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- Culvert
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Source:
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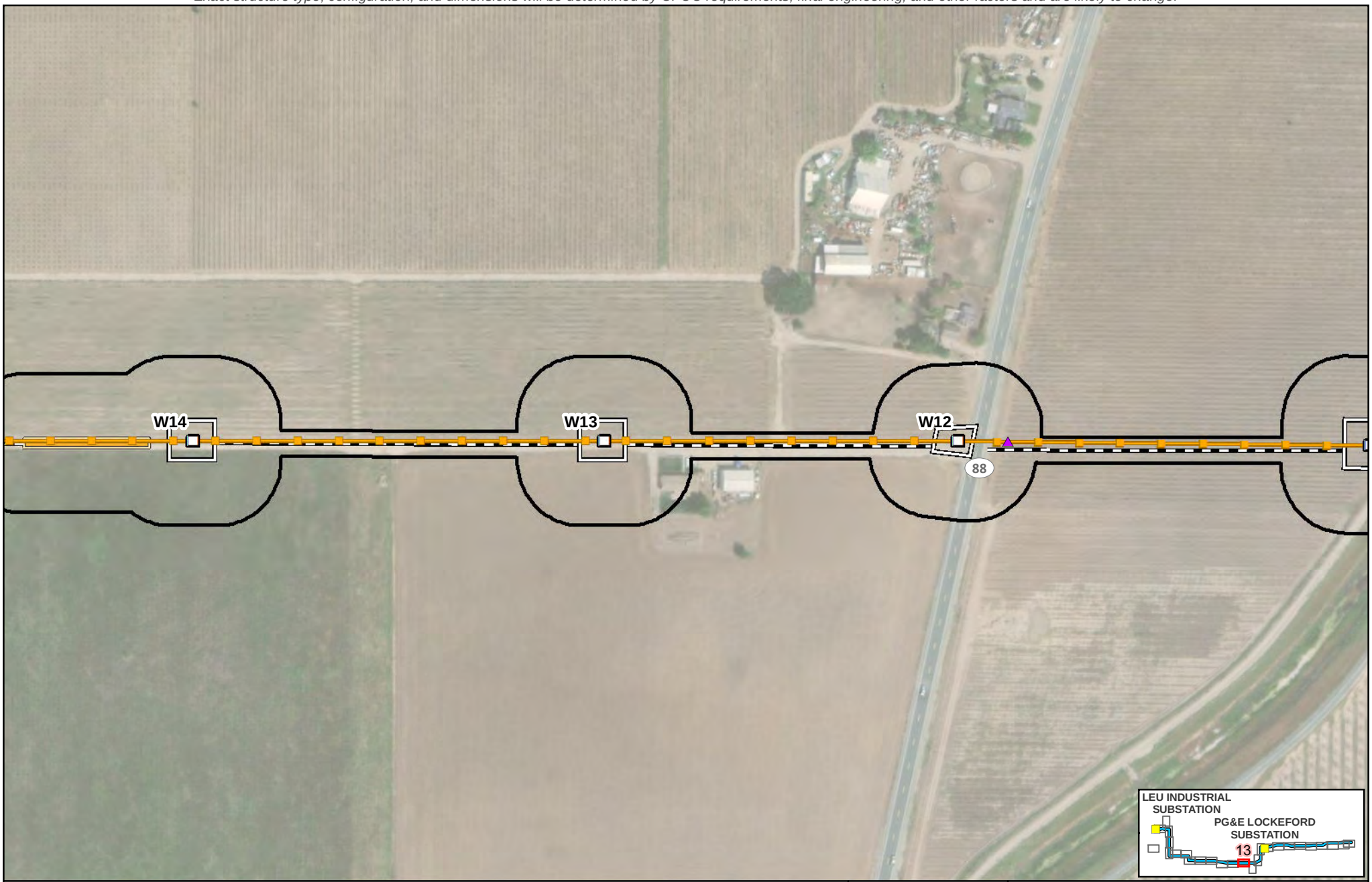

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5
Aquatic Resource Delineation
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

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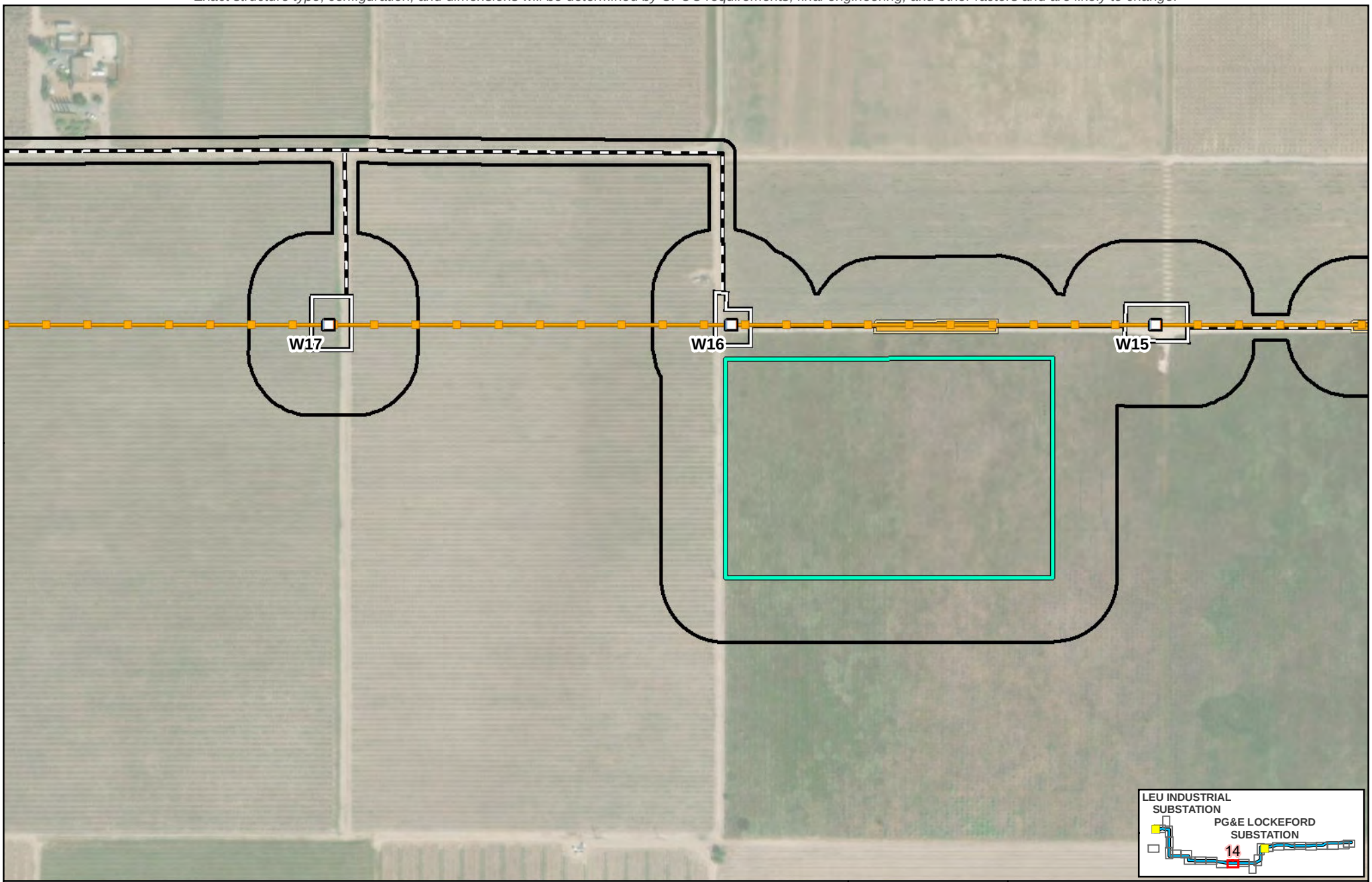

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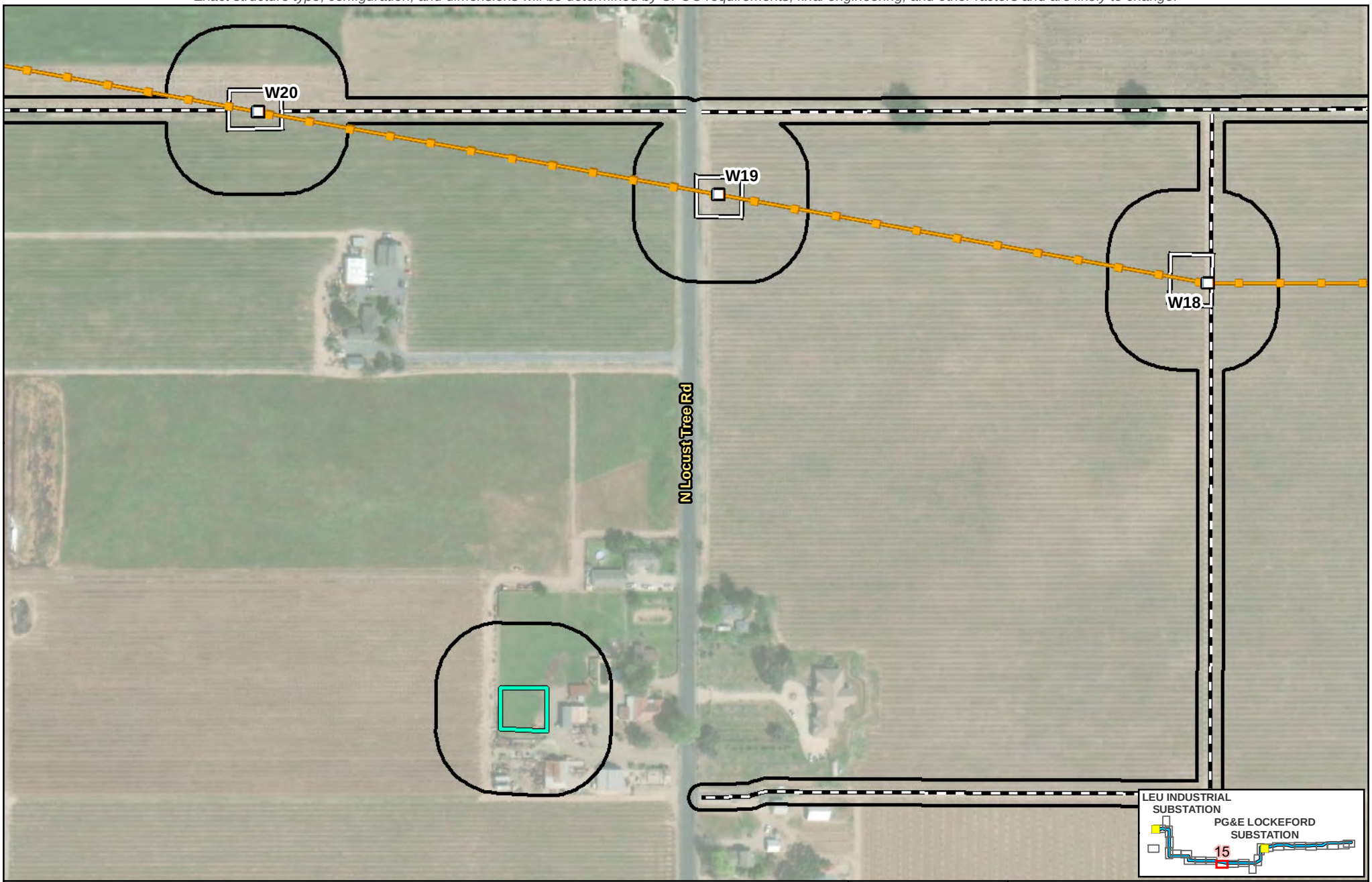

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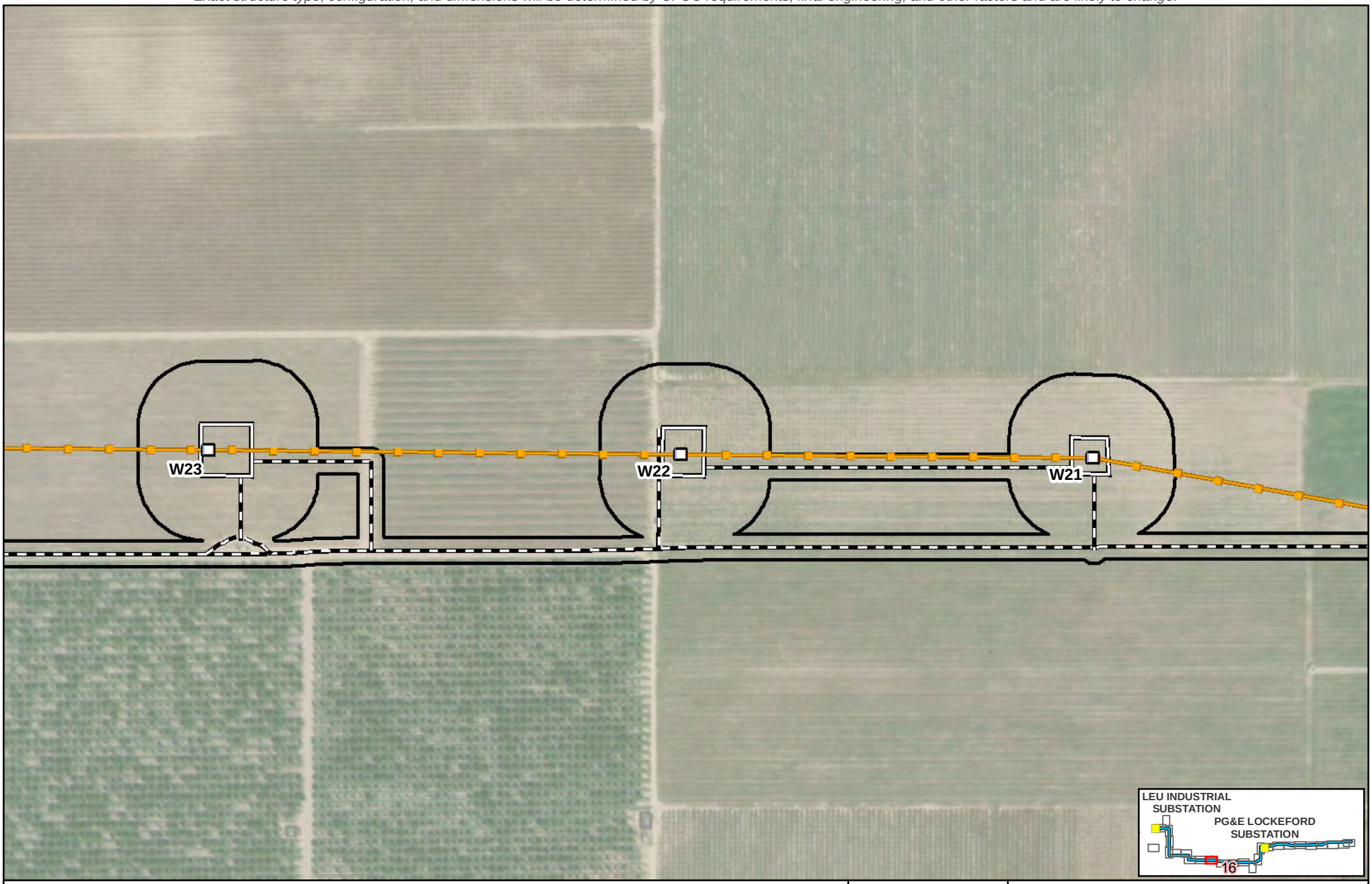

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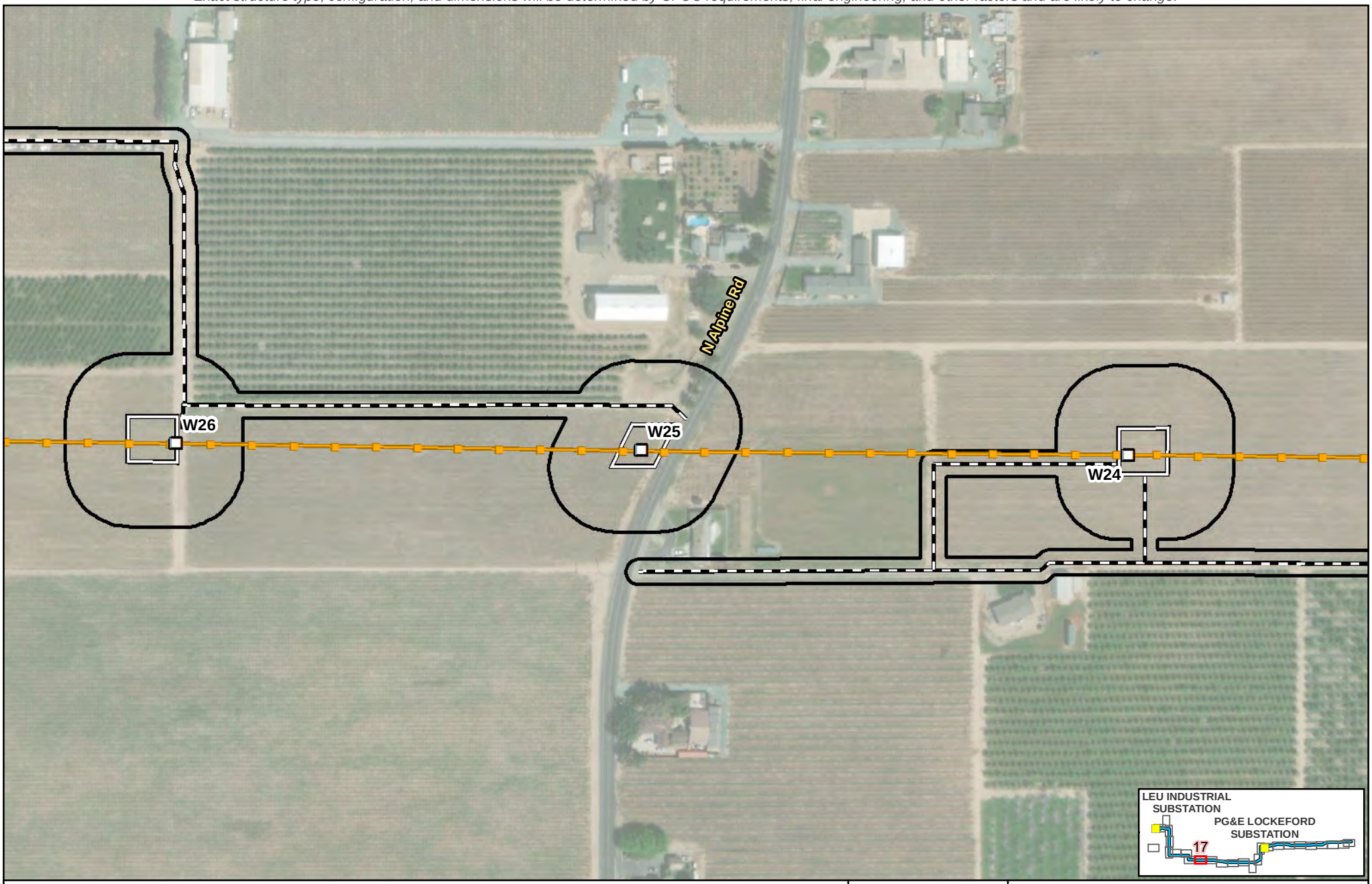

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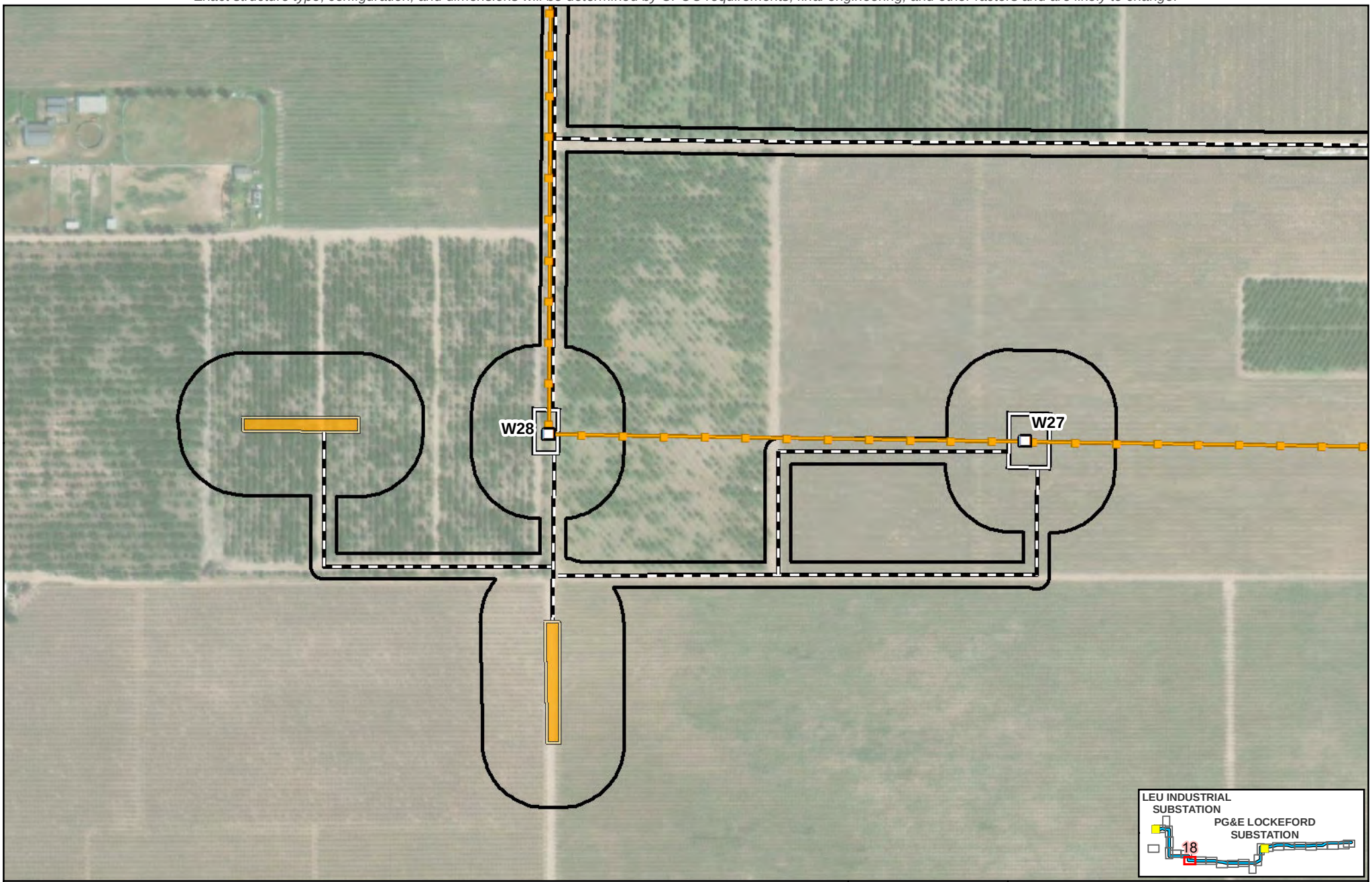

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Page 18 of 26
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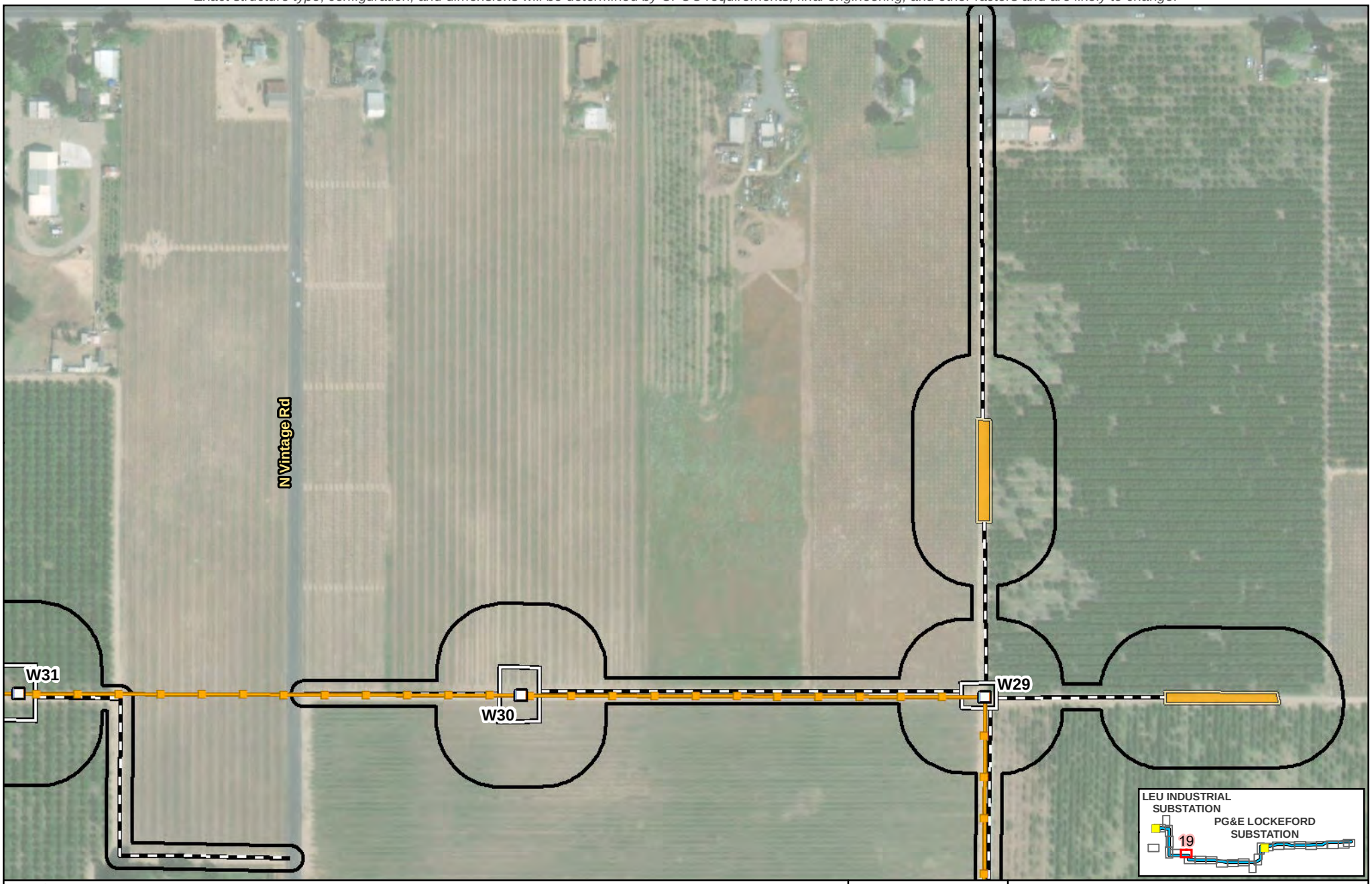

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FIGURE 5
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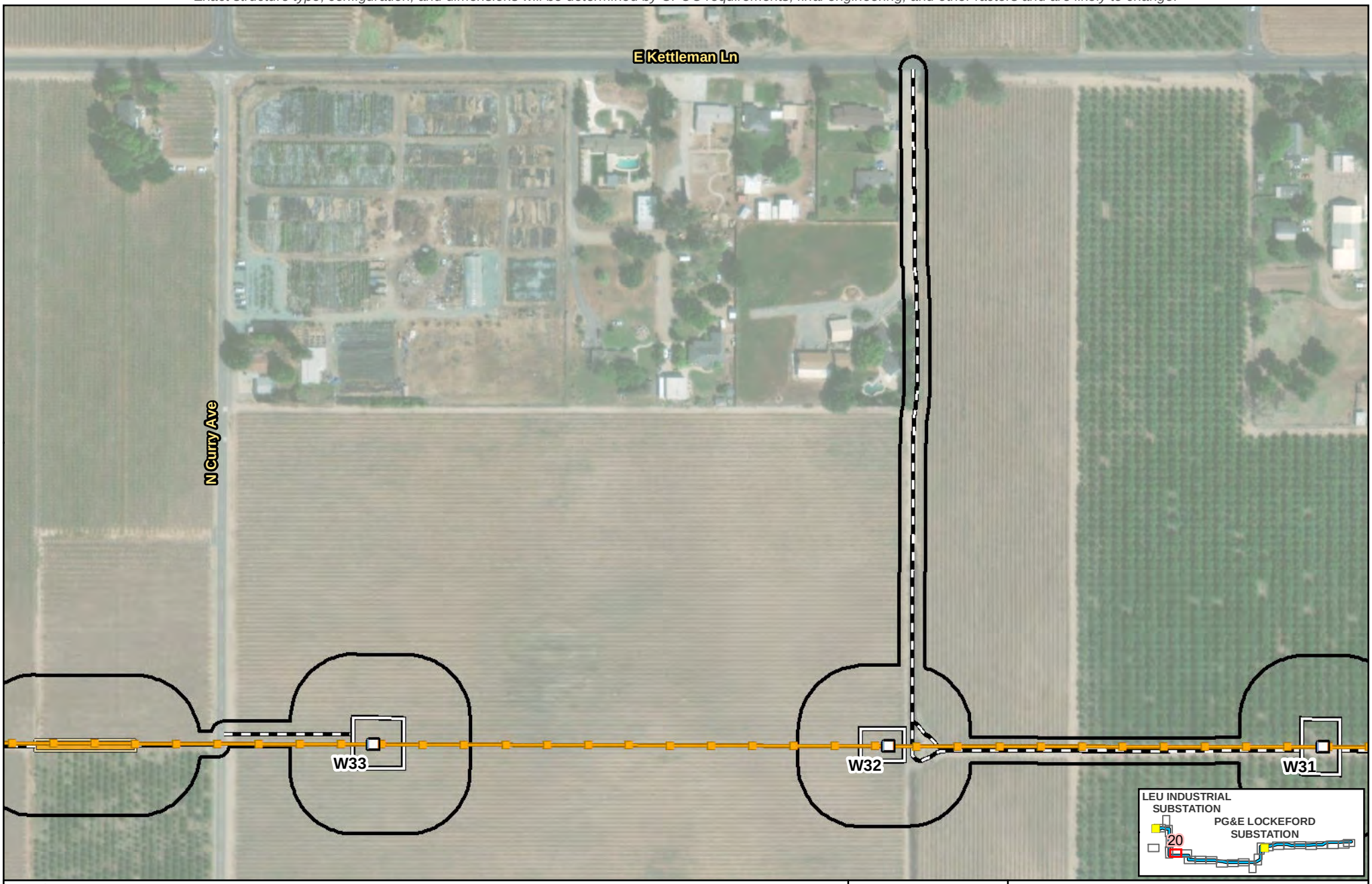

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Source:
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Scale: 1:3,000

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FIGURE 5
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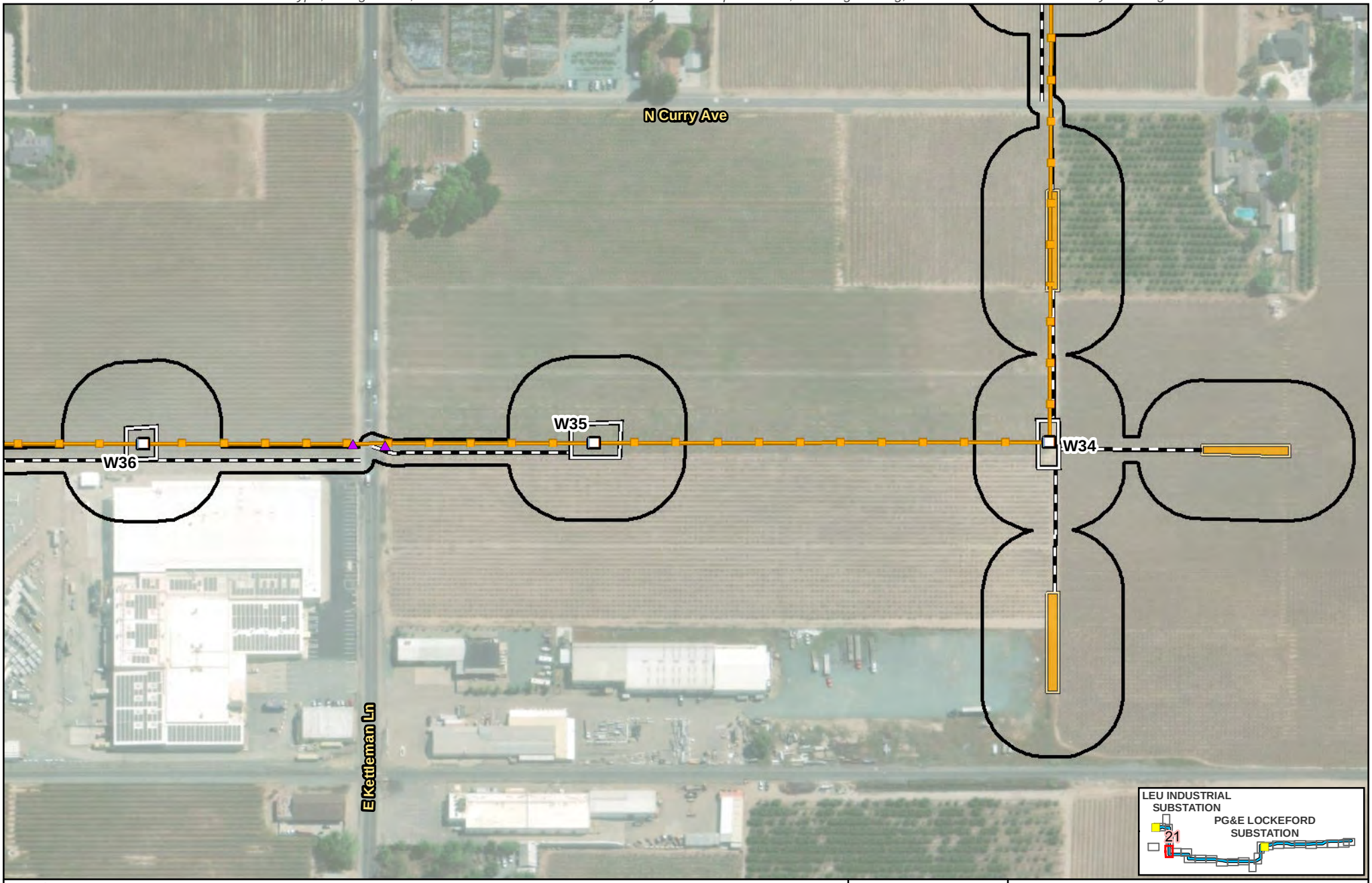

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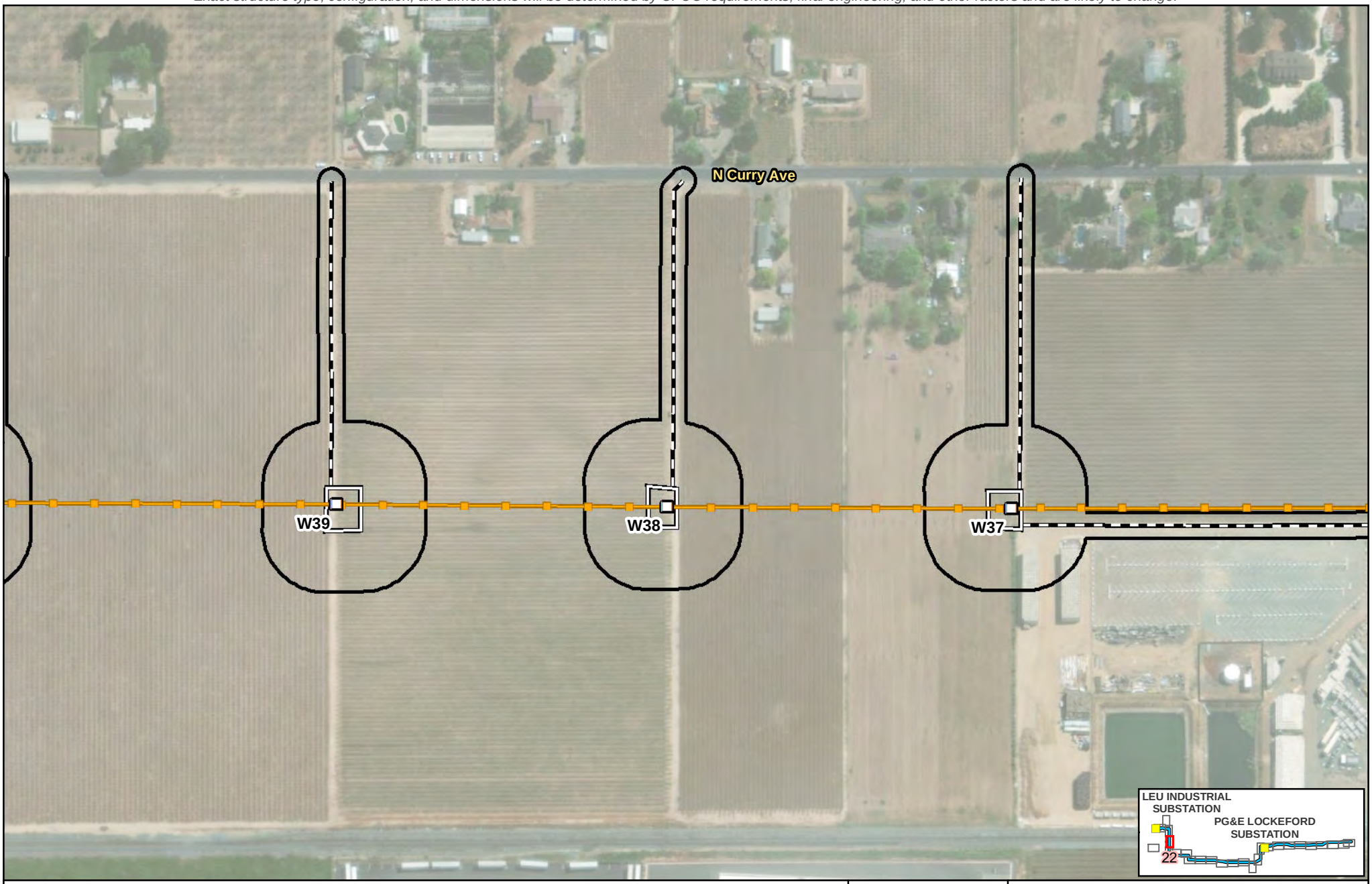

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Source:
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Scale: 1:3,000

0 100 Feet

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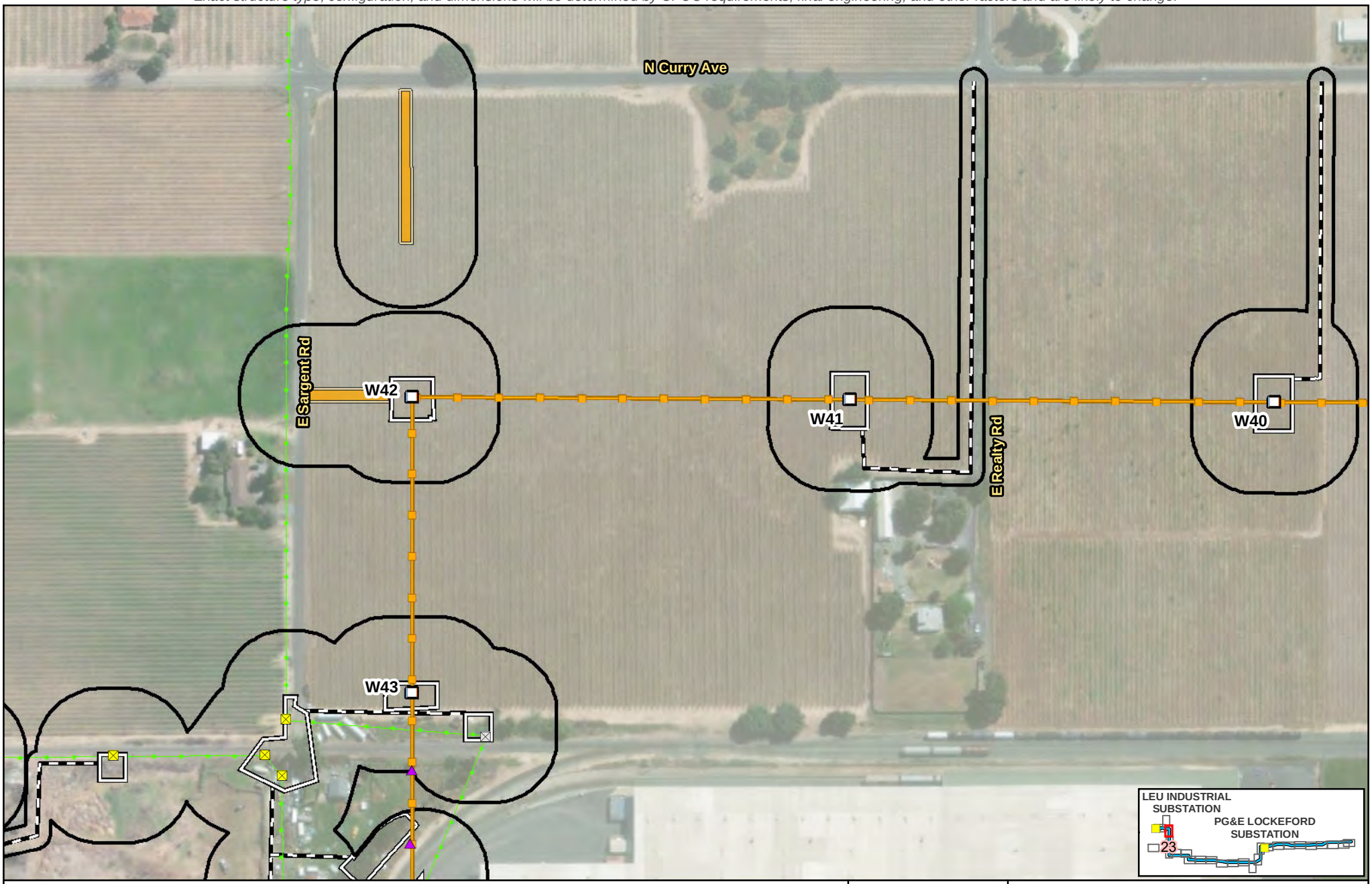

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 5
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Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

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Source:
1) Esri World Imagery

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Scale: 1:3,000

0 100 Feet

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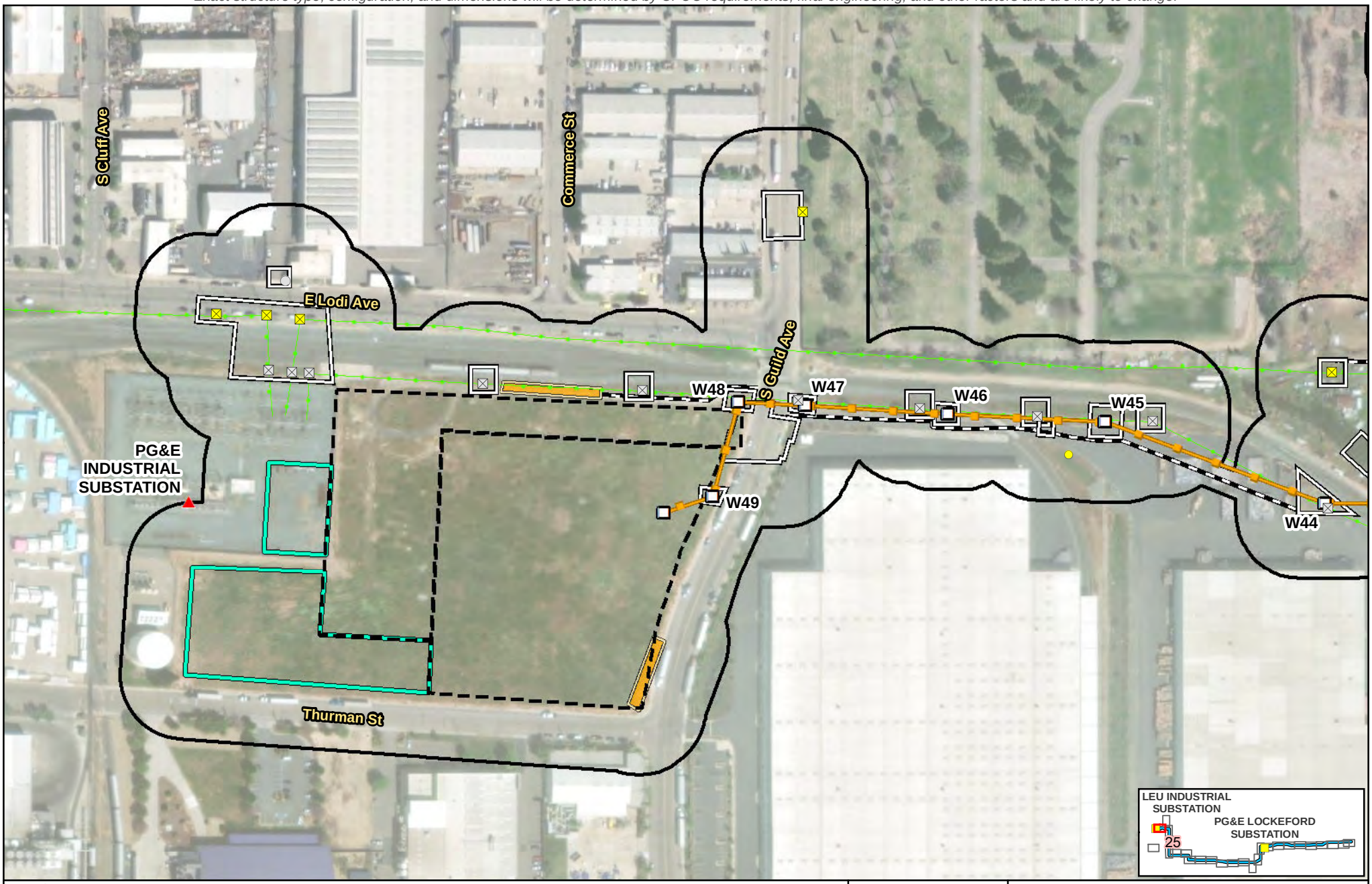

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- Culvert

Source:
1) Esri World Imagery

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Scale: 1:3,000

0 100 Feet

FIGURE 5
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Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

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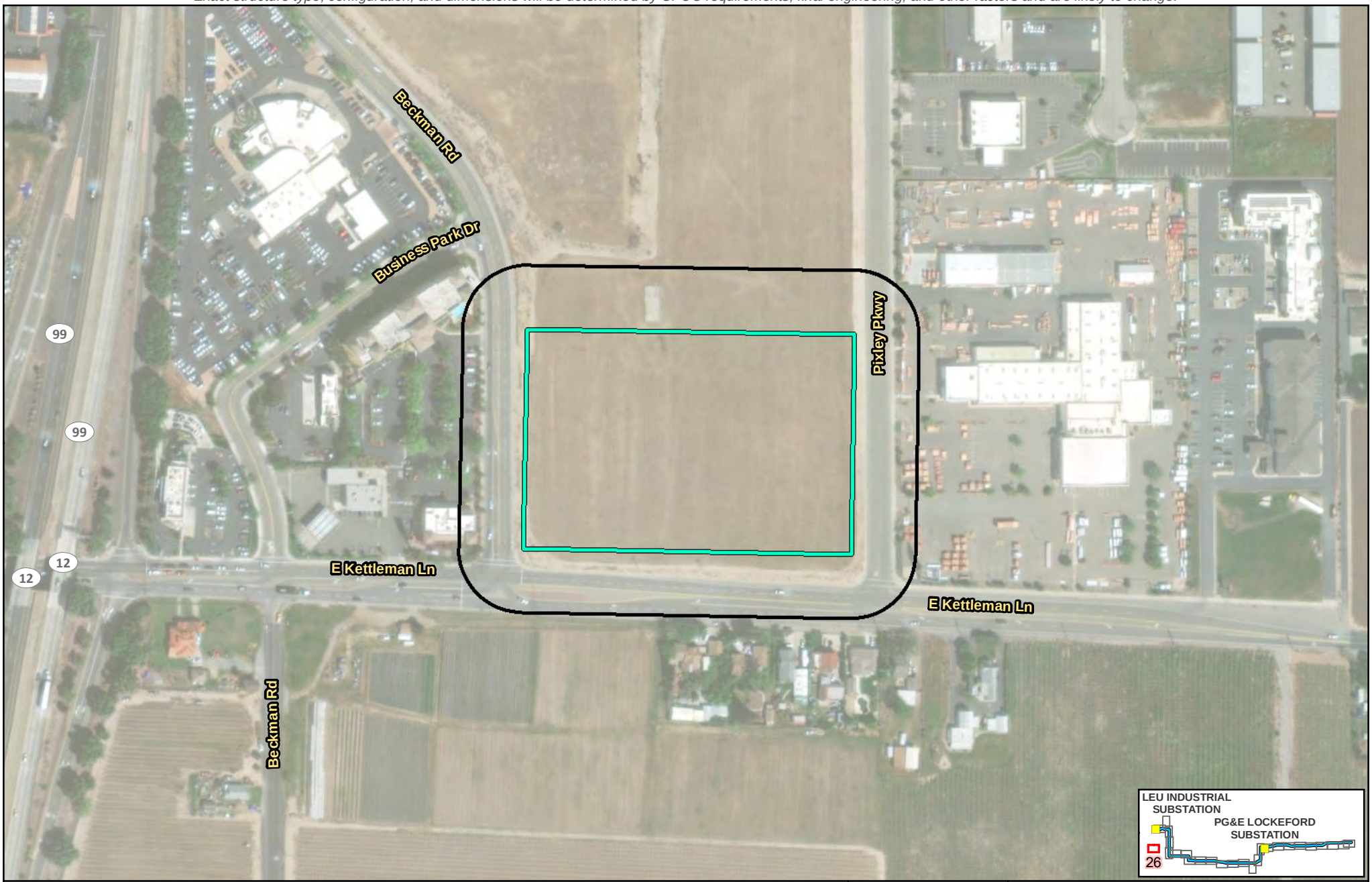

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Appendix A
Field Datasheets

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-1

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 10, 03N, 08E

Landform (hillslope, terrace, etc.): tilled vineyard | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.121660798141 | Long: -121.095032448886 | Datum: NAD 83

Soil Map Unit Name: Cometa sandy loam 2 to 5 percent slopes | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-1 is in heavily tilled area within a vineyard. Location of sample point has not been planted with vines, possibly an area that historically got wet or conveyed surface flow.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Hordeum marinum*	25	Yes	FAC
2. *Polypogon monspeliensis*	5	No	FACW
3. *Briza minor*	2	No	FAC
4. *Festuca perennis*	3	No	Not Listed
5. *Epilobium sp.*	1	No	
6. *Centromadia fitchii*	25	Yes	FACU
7. *Lupinus bicolor*	1	No	Not Listed
8.			
Total Cover:	62 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	5	x 2 =	10
FAC species	27	x 3 =	81
FACU species	25	x 4 =	100
UPL species	4	x 5 =	20
Column Totals:	61 (A)		211 (B)

Prevalence Index = B/A = 3.46

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-8	10YR 3/4	97	7.5YR 4/6	3	C	M	sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Top 6 inches of soil has been tilled

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Not a well defined depression. appears periodically wetted on aerial imagery, but not clearly inundated.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-2a

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 9, 03N, 08E

Landform (hillslope, terrace, etc.): depression | Local relief (concave, convex, none): concave | Slope (%): 2

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam 2 to 5 percent slopes | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-2a is a shallow depression along the proposed access route.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Hordeum marinum*	80	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	80 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	80	x 3 =	240
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	80 (A)		240 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- ☒ Dominance Test is >50%
- ☒ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:

SOIL

Sampling Point: SP-2a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-3	10YR 4/2	100					sandy loam	
3-6	10YR 4/2	95	5YR 4/6	5	C	M	sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Soils appear only marginally hydric, redox features faint. Soils were compacted and hard, difficult to dig below 6".

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☒ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Inundation only faint on aerial imagery,never appears ponded, but wetter vegetation signature.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-2b

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 8, 03N, 08E

Landform (hillslope, terrace, etc.): flat uplands | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-2b is an upland point outside of SW-1.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	40	Yes	FACU
2. *Bromus diandrus*	40	Yes	Not Listed
3. *Hordeum marinum*	2	No	FAC
4.			
5.			
6.			
7. *L*			
8.			
Total Cover:	82 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 40 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	2	x 3 =	6
FACU species	40	x 4 =	160
UPL species	40	x 5 =	200
Column Totals:	82 (A)		366 (B)

Prevalence Index = B/A = 4.46

Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-2b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-3	10YR 4/2	100					sandy clay loam	
3-6	10YR 4/2	95	5YR 3/4	5	C	M	sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Top

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-3a

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 8, 03N, 08E

Landform (hillslope, terrace, etc.): depression | Local relief (concave, convex, none): concave | Slope (%): 2

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-2b is an upland point outside of SW-1.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	15	No	FACU
2. *Epilobium brachycarpum*	15	No	FAC
3. *Hordeum marinum*	30	Yes	FAC
4. *Mimulus guttatus*	1	No	OBL
5. *Festuca perennis*	7	No	Not Listed
6. *Rumex crispus*	2	No	FAC
7.			
8.			
Total Cover:	70 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 40 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	1	x 1 =	1
FACW species		x 2 =	0
FAC species	47	x 3 =	141
FACU species	15	x 4 =	60
UPL species	7	x 5 =	35
Column Totals:	70 (A)		237 (B)

Prevalence Index = B/A = 3.39

Hydrophytic Vegetation Indicators:

- ☒ Dominance Test is >50%
- ☐ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:

SOIL

Sampling Point: SP-3a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-6	10YR 4/2	95	5YR 4/6	9	C	M	sandy loam	
6-8	7.5YR 4/2	100					sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Top

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☒ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Feature is part of a swale complex that appears periodically mesic, and slightly more mesic than surrounding uplands in this dry year.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-3b

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 9, 03N, 08E

Landform (hillslope, terrace, etc.): gently sloping upland | Local relief (concave, convex, none): convex | Slope (%): 1

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	40	Yes	FACU
2. *Bromus diandrus*	40	Yes	Not Listed
3. *Hordeum marinum*	5	No	FAC
4.			
5.			
6.			
7. *L*			
8.			
Total Cover:	85 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	5	x 3 =	15
FACU species	40	x 4 =	160
UPL species	40	x 5 =	200
Column Totals:	85 (A)		375 (B)

Prevalence Index = B/A = 4.41

Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-3b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-6	7.5YR 4/3	100					sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Top

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-4a

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 9, 03N, 08E

Landform (hillslope, terrace, etc.): depression | Local relief (concave, convex, none): concave | Slope (%): 2

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam 2to 5 percent slopes | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. Shallow depressional feature, likely connected to swale complex during wetter years.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Hordeum marinum*	30	Yes	FAC
2. *Deschampsia danthonioides*	7	No	FACW
3. *Centromadia fitchii*	7	No	FACU
4. *Plagiobothrys sp.*	5	No	FACW
5. *Rumex crispus*	1	No	FAC
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	12	x 2 =	24
FAC species	31	x 3 =	93
FACU species	7	x 4 =	28
UPL species		x 5 =	0
Column Totals:	50 (A)		145 (B)

Prevalence Index = B/A = 2.90

Hydrophytic Vegetation Indicators:

- ☒ Dominance Test is >50%
- ☒ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:

SOIL

Sampling Point: SP-4a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-2	10YR 4/3	100					loam	
2-6	7.5YR 4/3	95	5YR 4/6	5	C	M	sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☒ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Hard compacted soil difficult to dig below 6"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☒ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☒ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☒ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Silty sediment deposit observed on the soil surface

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-4b

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 9, 03N, 08E

Landform (hillslope, terrace, etc.): flat upland | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: | Long: | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam 2 to 5 percent slopes | NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. Grassy uplands around seasonally mesic swale complex

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus hordeaceus*	30	Yes	FACU
2. *Centromadia fitchii*	5	No	FACU
3. *Festuca perennis*	2	No	Not Listed
4.			
5.			
6.			
7. *L*			
8.			
Total Cover:	37 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 40 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	35	x 4 =	140
UPL species	2	x 5 =	10
Column Totals:	37 (A)		150 (B)

Prevalence Index = B/A = 4.05

Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-4b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-2	7.5YR 4/2	100					sandy loam	
2-6	7.5YR 4/3	98	5YR 3/4	2	C	M	sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: hard, compacted soil made difficult to dig below 6"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-1x

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 7, 03N, 08E

Landform (hillslope, terrace, etc.): flat tilled | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.1196181217077 | Long: -121.135745681129 | Datum: NAD 83

Soil Map Unit Name: Rocklin fine sandy loam 0 to 2 percent slopes | NWI classification: PUBFx

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-1x is intended to document the absence of aquatic resources, as mapped by NWI. Area has been converted to agriculture.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Polygonum aviculare*	2	Yes	FAC
2. *Erigeron canadensis*	2	Yes	FACU
3. *Festuca perennis*	2	Yes	Not Listed
4. *Bromus diandrus*	2	Yes	Not Listed
5.			
6.			
7.			
8.			
Total Cover:	8 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 95 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species	2	x 3 =	6
FACU species	2	x 4 =	8
UPL species	4	x 5 =	20
Column Totals:	8 (A)		34 (B)

Prevalence Index = B/A = 4.25

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-1x

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-3"	7.5YR 3/2	100					sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Soils too compacted to dig

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No evidence of hydrology

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-2x

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 8, 03N, 08E

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.119096 | Long: -121.131896 | Datum: NAD 83

Soil Map Unit Name: Rocklin sandy loam 2 to 5 percent slopes | NWI classification: PEM1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉
Hydric Soil Present?	Yes ◉	No ○
Wetland Hydrology Present?	Yes ○	No ◉

Is the Sampled Area within a Wetland? Yes ○ No ◉

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-2x was collected to document the absence of aquatic resources, as mapped by NWI. Area has been converted to vineyard. Some ponded water in the vicinity, though the area is irrigated.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Cynodon dactylon*	50	Yes	FACU
2. *Cyperus eragrostis*	10	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	60 %		
Woody Vine Stratum			
1. *Vitis vinifera*	35	Yes	Not Listed
2.			
Total Cover:	35 %		

% Bare Ground in Herb Stratum 75 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	10	x 2 =	20
FAC species		x 3 =	0
FACU species	50	x 4 =	200
UPL species	35	x 5 =	175
Column Totals:	95 (A)		395 (B)

Prevalence Index = B/A = 4.16

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-2x

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture[3]	Remarks
0-3	7.5YR 3/3	97	5YR 5/8	3	C	M	sandy loam	
3-6	7.5YR 4/3	50	5YR 4/6	50	C	M	sandy loam	
6-12	10YR 4/2	40	5YR 4/6	60	C	M	sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ◉ No ○

Remarks: unclear if redox may be the result of irrigation ponding

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/28/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-3x

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 8, 03N, 08E

Landform (hillslope, terrace, etc.): flat tilled upland | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.119303 | Long: -121.127646 | Datum: NAD 83

Soil Map Unit Name: Rocklin sandy loam 2 to 5 percent slopes | NWI classification: PEM1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-3x collected to demonstrate lack of aquatic resources at location of NWI feature. Collected adjacent to vineyard in grassy area.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Avena barbata*	5	No	Not Listed
2. *Festuca perennis*	3	No	Not Listed
3. *Festuca myuros*	60	Yes	Not Listed
4. *Hordeum murinum*	15	Yes	FACU
5.			
6.			
7.			
8.			
Total Cover:	83 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 25 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	15	x 4 =	60
UPL species	68	x 5 =	340
Column Totals:	83 (A)		400 (B)

Prevalence Index = B/A = 4.82

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-3x

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture[3]	Remarks
0-3	10YR 3/4						sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: Soul too compacted to dig below 3"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No evidence of hydrology.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/28/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-4x

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 10, 03N, 08E

Landform (hillslope, terrace, etc.): flat access road | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.120066 | Long: -121.096450 | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam 2 to 5 percent slopes | NWI classification: PEM1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-4x collected to demonstrate lack of aquatic resources at location of mapped NWI feature. Area has been bermed and has a fenceline through it.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Erigeron canadensis*	3	Yes	FACU
2. *Croton setiger*	3	Yes	
3. *Erigeron bonariensis*	3	Yes	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	9 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 90 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	6	x 4 =	24
UPL species		x 5 =	0
Column Totals:	6 (A)		24 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-4x

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-3	7.5YR 3/4	100						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No indication of recent hydrology

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Northern San Joaquin 230 kV | City/County: San Joaquin County | Sampling Date: 4/27/2021

Applicant/Owner: Pacific Gas and Electric | State: CA | Sampling Point: SP-5x

Investigator(s): M. Marek, R. Huddleston, K. Brown | Section, Township, Range: 10, 03N, 08E

Landform (hillslope, terrace, etc.): tilled vineyard | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 38.121521 | Long: -121.095800 | Datum: NAD 83

Soil Map Unit Name: San Joaquin sandy loam 2 to 5 percent slopes | NWI classification: PUBFx

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ○ No ◉ (If no, explain in Remarks.)

Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	
Hydric Soil Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks: 2020-2021 precipitation was lower than average. This would not have impacted the results of the delineation. SP-5x collected to document the lack of aquatic resources at the location of mapped NWI feature. Has been converted to vineyard that is heavily tilled.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Bromus diandrus*	20	Yes	Not Listed
2. *Vitis vinifera*	30	Yes	Not Listed
3. *Lysimachia arvensis*	1	No	Not Listed
4. *Erigeron sp.*	1	No	
5.			
6.			
7.			
8.			
Total Cover:	52 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 50 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	51	x 5 =	255
Column Totals:	51 (A)		255 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- ◉ Dominance Test is >50%
- ◉ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:

SOIL

Sampling Point: SP-5x

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture[3]	Remarks
0-5	7.5YR 3/4	100					sandy clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

[3]Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[4]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[4]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No indication of recent hydrology

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NSJ 230 kV
Project Number:
Stream: CW-1
Investigator(s): M Marck, S. Owens

Date: 8/11/21 **Time:** 2:00 PM
Town: Victor **State:** CA
Photo begin file#: **Photo end file#:**

Y ☑ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☑ Is the site significantly disturbed?

Location Details:

Projection: **Datum:**
Coordinates:

Potential anthropogenic influences on the channel system:
Constructed / realigned channel between 2 parcels. Lined w/ landscaped plants. Berned on south side

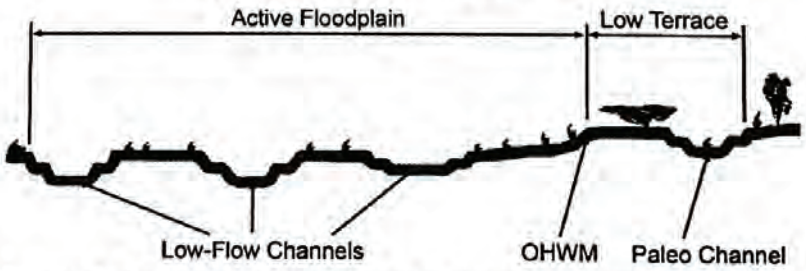
Brief site description: Realigned drainage, perennial, 0-2" deep current inlet

Checklist of resources (if available):

- ☑ Aerial photography
  Dates:
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☑ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☑ Global positioning system (GPS)
- ☐ Other studies

- ☐ Stream gage data
  Gage number:
  Period of record:
  - ☐ History of recent effective discharges
  - ☐ Results of flood frequency analysis
  - ☐ Most recent shift-adjusted rating
  - ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☑ GPS
   - ☐ Other:

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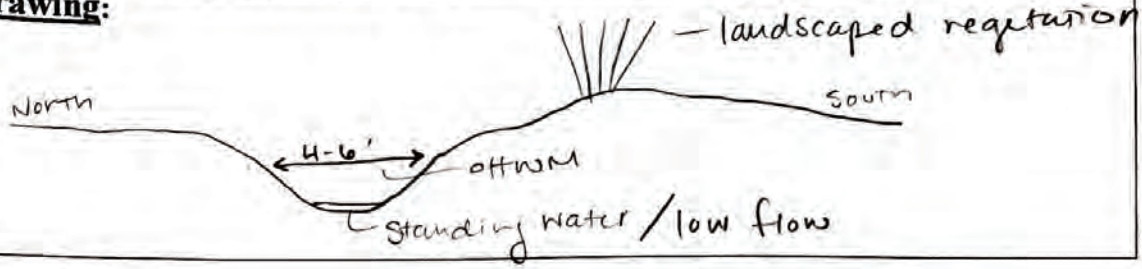
Project ID: NSJ **Cross section ID:** T-1 **Date:** 5/11/21 **Time:** 2:00PM

Cross section drawing:



OHWM

GPS point: CW-1

Indicators:

- [ ] Change in average sediment texture
- [ ] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [ ] Other: _____
- [ ] Other: _____

Comments:

Excavated, channelized.

Floodplain unit: [x] Low-Flow Channel [ ] Active Floodplain [ ] Low Terrace

GPS point: CW-1

Characteristics of the floodplain unit:

Average sediment texture: water - could not be determined

Total veg cover: ____ % Tree: ____ % Shrub: ____ % Herb: 10 %

Community successional stage:

- [x] NA
- [ ] Early (herbaceous & seedlings)
- [ ] Mid (herbaceous, shrubs, saplings)
- [ ] Late (herbaceous, shrubs, mature trees)

Indicators:

- [ ] Mudcracks
- [ ] Ripples
- [ ] Drift and/or debris
- [ ] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

Comments:

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Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NSJ 230 kV
Project Number:
Stream: NW-1 (Paddy Creek)
Investigator(s): M. Marek, S. Owens
Date: 5/11/2021 **Time:** 2:30 PM
Town: Victor **State:** CA
Photo begin file#: **Photo end file#:**

Y ☑ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☑ Is the site significantly disturbed?

Location Details:

Projection: **Datum:**
Coordinates:

Potential anthropogenic influences on the channel system:
Paddy creek is excarated in places, it has been diverted for irrigation in areas. Abutted by levees w/in the BSA

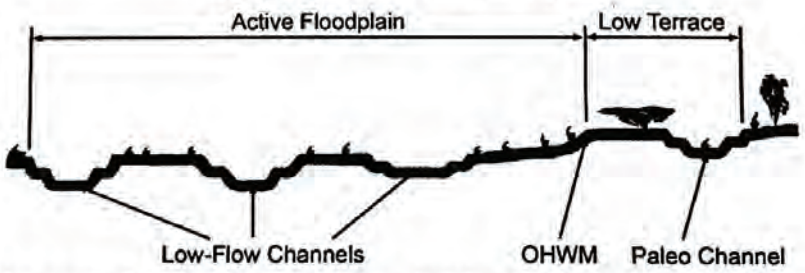
Brief site description:
Dry during survey. Dominated by sedges & some bulrush. Sandy substrate

Checklist of resources (if available):

- ☑ Aerial photography
  Dates:
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☑ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☑ Global positioning system (GPS)
- ☐ Other studies

- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☑ GPS
   - ☐ Other:

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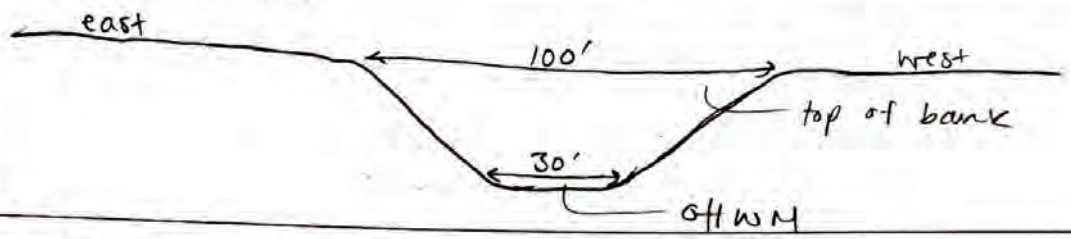
Project ID: NSJ **Cross section ID:** T-2 **Date:** 5/11/21 **Time:** 2:30PM

Cross section drawing:



OHWM

GPS point: NW-1

Indicators:

- ☐ Change in average sediment texture
- ☑ Change in vegetation species
- ☑ Change in vegetation cover
- ☑ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:

Excaration / channelization of the feature has established the OHWM

Floodplain unit: ☑ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: NW-1

Characteristics of the floodplain unit:

Average sediment texture: Sandy loam

Total veg cover: ____ % Tree: ____ % Shrub: ____ % Herb: 35 %

Community successional stage:

- ☐ NA
- ☑ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☑ Mudcracks
- ☐ Ripples
- ☑ Drift and/or debris
- ☑ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

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Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NSJ 230 kV
Project Number:
Stream: CW-2
Investigator(s): M. Marek, S. Owens

Date: 4/28/21 **Time:** 10:00 am
Town: Victor **State:** CA
Photo begin file#: **Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details:

Projection: **Datum:**
Coordinates:

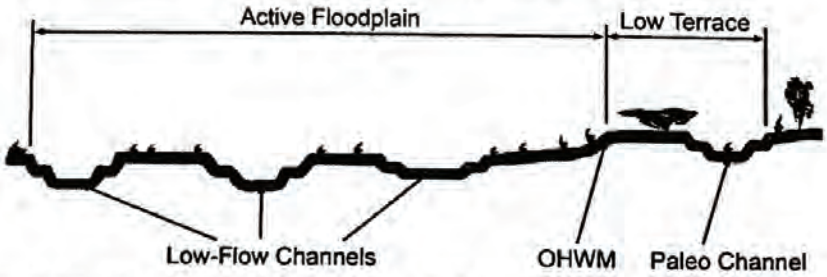
Potential anthropogenic influences on the channel system:
Channelized / realigned feature between cropped parcel & mowed parcel

Brief site description:
perennial feature but only marginally wet this year. could possibly be considered intermittent. flows south to Paddy C

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☒ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☒ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
  - ☐ History of recent effective discharges
  - ☐ Results of flood frequency analysis
  - ☐ Most recent shift-adjusted rating
  - ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☒ GPS
   - ☐ Other:

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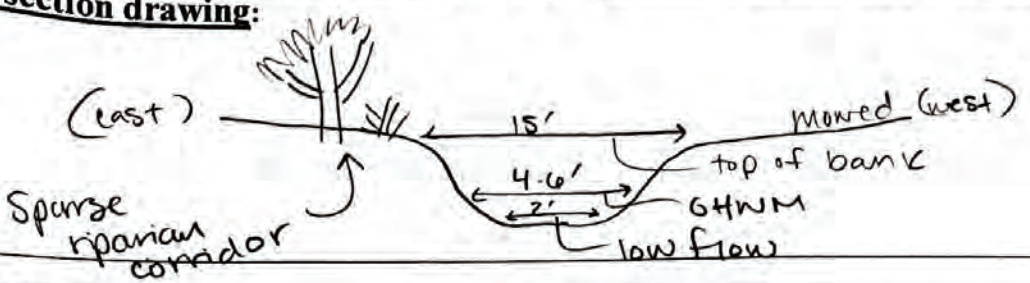
Project ID: NSU **Cross section ID:** T-3 **Date:** 4/28/21 **Time:** 10:00 AM

Cross section drawing:



OHWM

GPS point: CW-2

Indicators:

- ☐ Change in average sediment texture
- ☑ Change in vegetation species
- ☑ Change in vegetation cover
- ☑ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:

Constructed/realigned nature of the channel established the OHWM

Floodplain unit: ☑ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: CW-2

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: ____ % Tree: ____ % Shrub: ____ % Herb: 15 %

Community successional stage:

- ☐ NA
- ☑ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☑ Drift and/or debris
- ☑ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

flattened, dead veg in low flow. Some small areas of pooled / standing water

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Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NSJ - 230 KV
Project Number:
Stream: NW-2 (Bear Creek)
Investigator(s): M. Mark, K. Brown

Date: 5/11/21
Town: Victor
Photo begin file#:

Time: 12:00 PM
State: CA
Photo end file#:

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details:

Projection: **Datum:**
Coordinates:

Potential anthropogenic influences on the channel system:
Excavated / channelized in areas. Bounded by levees. Diverted for irrigation in areas

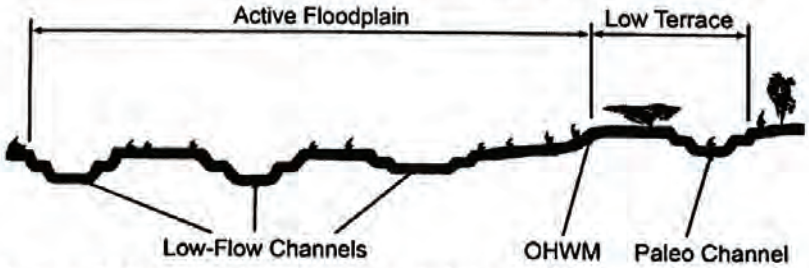
Brief site description:

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☒ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☒ Global positioning system (GPS)
- ☐ Other studies

- ☒ Stream gage data
  Gage number: USGS 11312000
  Period of record: 1930 - 1985
- ☒ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☒ GPS
   - ☐ Other:

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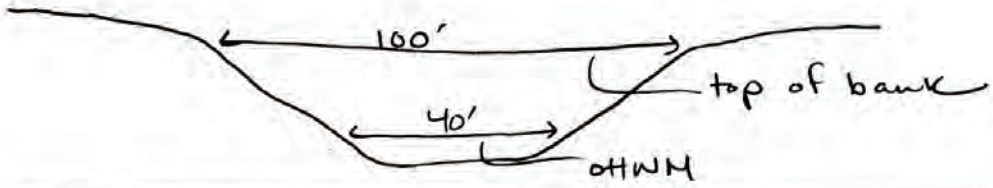
Project ID: NSJ **Cross section ID:** T-4 **Date:** 5/11/21 **Time:** 12:00PM

Cross section drawing:



OHWM

GPS point: NW-2

Indicators:

- [x] Change in average sediment texture
- [x] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [ ] Other: _____
- [ ] Other: _____

Comments:

Floodplain unit: [x] Low-Flow Channel [ ] Active Floodplain [ ] Low Terrace

GPS point: NW-2

Characteristics of the floodplain unit:

Average sediment texture: Sandy

Total veg cover: ____ % Tree: 3 % Shrub: ____ % Herb: 40 %

Community successional stage:

- [ ] NA
- [x] Early (herbaceous & seedlings)
- [ ] Mid (herbaceous, shrubs, saplings)
- [ ] Late (herbaceous, shrubs, mature trees)

Indicators:

- [x] Mudcracks
- [ ] Ripples
- [x] Drift and/or debris
- [x] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

Comments:

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Appendix B
Representative Site Photographs



Photo 1. Representative photo of a seasonal, depressional wetland (SW-2) within the biological study area (BSA), facing east; April 27, 2021.



Photo 2. Seasonal wetland (SW-8) adjacent to access road within the BSA, facing north; April 27, 2021.



Photo 3. Paddy Creek where it passes through the BSA, facing southwest; May 11, 2021.



Photo 4. Bear Creek where it passes through the BSA, facing northeast; April 28, 2021.



Photo 5. Constructed watercourse CW-1, where it passes through the BSA, facing east; May 11, 2021.



Photo 6. Constructed watercourse CW-2, east of PG&E Lockeford Substation, facing south; April 28, 2021.



Photo 7. Constructed watercourse CW-3, where it passes through the BSA, facing east; April 28, 2021.



Photo 8. Representative drainage ditch within the BSA (DD-3), facing south; April 27, 2021.

Appendix C3
Northern San Joaquin 230 kV Transmission Project Biological Resources Technical Memorandum

Jacobs

Memorandum

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F +1.510.622.9000
www.jacobs.com

Subject	Biological Resources Technical Memorandum for the Pacific Gas and Electric Company Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California
Project Name	Northern San Joaquin 230 kV Transmission Project
Attention	Andi Henke/Pacific Gas and Electric Company; Erin Rice/Pacific Gas and Electric Company
From	Stephanie Owens/Jacobs; Mia Marek/Jacobs
Date	August 2023
Copies to	David Rasmussen/Jacobs; Colleen Taylor/Jacobs

1. Introduction

This memorandum discusses biological resources for the proposed Pacific Gas and Electric Company (PG&E) Northern San Joaquin 230 kilovolt (kV) Transmission Project (project) to provide a new 230 kV transmission system in northern San Joaquin County in central California (Figure 1; figures are presented at the end of this memorandum). The purpose of the project is to increase electric reliability and accommodate forecasted load growth to electrical customers in northern San Joaquin County. The project includes activities by PG&E and the City of Lodi's Electric Utility (Lodi Electrical Utility or LEU). This project description summary includes PG&E's portion of the project and LEU's portion of the project. This memorandum references PG&E's portion of the project or LEU's portion of the project in select sections. Refer to PG&E's project Proponent's Environmental Assessment for potential impact discussion by utility. The proposed project is within unincorporated areas of northeastern San Joaquin County and partially within an industrial area of the City of Lodi (Figure 1). Within the City of Lodi, the *City of Lodi General Plan* land use designation and zoning is industrial with industrial and commercial business and associated railroad lines on adjacent parcels. Major geographic features in the vicinity of the project include the Mokelumne River, Bear Creek, State Route (SR) 12, SR 88, and SR 99.

The project will loop PG&E's existing overhead Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation and install a new overhead double-circuit 230 kV transmission line between PG&E Lockeford Substation and the new PG&E Thurman Switching Station at Lodi Electric Utility's (LEU's) Fred M. Reid Industrial Substation (LEU Industrial Substation) in Lodi, California. LEU will construct the new 230/60 kV Guild Substation between LEU Industrial Substation and PG&E Thurman Switching Station. At LEU Guild Substation, the new 230 kV transmission line will terminate, and transformers will step down the power to 60 kV and connect with LEU Industrial Substation. When the new 230 kV system is operating, the existing local PG&E 60 kV system will be reconfigured, including disconnecting from LEU's 60 kV system at LEU Industrial Substation. The 60 kV lines will be removed or reconfigured within their existing alignments.

PG&E will perform project-related work at four remote-end substations (Brighton, Bellota, Rio Oso, and Lodi), which are located in Folsom, Linden, Rio Oso, and Lodi, respectively, to update the system protection scheme.

The proposed project includes new or modified aboveground substations; a switching station; microwave towers; Federal Communications Commission towers; and transmission, power, distribution/feeder, and telecommunication (optical ground and shield wires) lines. Belowground facilities, or portions thereof, include new and modified foundations, grounding grids, new and relocated 12 kV feeder lines, and telecommunication circuits at stations. Project activities will occur within new and existing right-of-way, along new proposed and existing access roads, and on PG&E property. Construction work areas and access roads will occur within existing, modified, or new rights-of-way with some adjacent or nearby temporary construction work areas and access.

The proposed new Northern San Joaquin 230 kV transmission line begins at new PG&E tubular steel pole (structure) E1 and continues west to LEU Industrial Substation (Figure 2). The regional topography generally is flat with rolling hills increasing to the east. Elevation ranges from approximately 135 feet above sea level at the eastern end of the project to approximately 60 feet above sea level at the western end of the project. The majority of upland habitat observed throughout the vicinity of the project is either hardscaped (pavement and sidewalks) or otherwise developed/landscaped areas, agriculture, or is disturbed habitat consisting of primarily ruderal or non-native species.

This report will discuss the areas that will be affected by this project and immediately adjacent areas, along with the potential for special-status plant and wildlife species to occur and proximity to waters that are potentially jurisdictional under the Clean Water Act (CWA) and California Fish and Game Code (CFGC).

No resource agency consultations have occurred for this project.

2. Methods

Biological resources in the project area (defined here as the areas that will be disturbed by project activities), including the work areas, pull sites, and unpaved access roads, were characterized by reviewing existing information and conducting reconnaissance-level field surveys of botanical, wetlands, and wildlife resources. Reconnaissance-level surveys were conducted within the biological study area (BSA) corridor by Jacobs biologists Kyle Brown and Mia Marek on December 11, 2019. Rare plant surveys were conducted within the BSA corridor by Jacobs biologists Mia Marek, Kyle Brown, and Stephanie Owens and ATS biologist Russell Huddleston on April 27 and 28, May 11, June 15, and August 6, 2021. An aquatic resource delineation was conducted by biologists Mia Marek, Kyle Brown, Stephanie Owens, and Russell Huddleston on April 27 and 28 and May 11, 2021. A follow up biological reconnaissance survey was conducted on August 11, 2022, by Jacobs biologists Mia Marek and Stephanie Owens to assess the BSA where it was expanded to encompass additional proposed work areas associated with pole replacements along the PG&E Lockeford-Industrial 60 kV Line, PG&E Lodi-Industrial 60 kV Line, PG&E Industrial Tap 60 kV Line, and PG&E Lockeford-Lodi No. 2 60 kV power line. The purpose of these surveys was to identify potential habitat for special-status species and to field-verify the mapped vegetation types and wetland features that were identified in online database searches. Prior to conducting the surveys, the following biological databases and aerial imagery were reviewed to identify locations within the BSA that might have substrates or habitats suitable for special-status plant species:

- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (CDFW 2023)

- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) System (USFWS 2023a)
- USFWS Critical Habitat Mapper (USFWS 2022b)
- California Native Plant Society (CNPS) online version of the *Inventory of Rare and Endangered Plants of California* (CNPS 2023)
- CNPS Calflora Database (Calflora 2022)
- National Oceanic and Atmospheric Administration National Marine Fisheries Service (NMFS) federally listed and proposed endangered, threatened, and candidate species and their designated critical habitat (NMFS 2023)
- National Wetlands Inventory (USFWS 2022c)
- U.S. Geological Survey (USGS) National Hydrography Dataset (USGS 2022)

A CNDDB and CNPS search for special-status species typically includes nine U.S. Geological Survey (USGS) 7.5-minute quadrangle maps for a project located within a single quadrangle—the quadrangle that covers the project footprint, and the eight quadrangles that surround the project quadrangle. However, in this case, the project footprint spanned four quadrangles; therefore, the CNDDB and CNPS species lists were generated for additional quadrangles to account for all the areas surrounding the four project quadrangles, including Linden, Lockeford, Waterloo, Lodi North, Clay, Goose Creek, Clements, Wallace, Valley Springs SW, Farmington, Peters, Stockton East, Stockton West, Lodi South, Galt, Bruceville, Thornton, and Terminous. The CNDDB search was further refined to a 5-mile buffer around the project footprint. The USFWS IPaC Species list was generated for the project BSA. The NMFS species list was generated for the Linden, Waterloo, and Lodi North quadrangles.

Based on California Public Utilities Commission guidelines, the BSA should include a 1,000-foot-wide buffer from project facilities; however, the BSA in this report includes a 250-foot-wide buffer around the proposed transmission line and all potential work areas (including new proposed structure locations, staging areas, and new proposed substations), and a 50-foot-wide buffer around proposed unpaved access roads (Figure 2). The BSA was reduced in size for the following reasons:

- There is constrained access because of surrounding private property along the project's right-of-way.
- The majority of the alignment will have no or very limited ground-disturbing activities.
- The majority of the BSA is either hardscaped (pavement and sidewalks) or otherwise developed/ landscaped, agriculture, or disturbed habitat.
- The surrounding areas generally are flat, which limits the potential for runoff to adjacent areas and associated indirect impacts, and the project area will be restored to preproject conditions.

Direct and indirect effects are not anticipated outside of the BSA. The BSA encompasses approximately 387 acres.

Biological reconnaissance surveys entailed conducting windshield surveys in developed areas, walking meandering transects in accessible undeveloped portions of the BSA, and surveying areas that have potential to support habitat for special-status species as identified in desktop-level reviews. Focused early-season and late-season rare plant surveys were conducted in habitats that were potentially suitable for special-status species within the BSA. An aquatic resource delineation was conducted to determine aquatic features in the BSA that are potentially jurisdictional.

The following sections describe existing biotic communities and discuss sensitive habitats and special-status plant and wildlife species with potential to occur in the BSA.

Special-status plant species were defined in accordance with Section 15380 of the California Environmental Quality Act (CEQA) Guidelines and the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018), and include species that meet the following criteria:

- Are federally or state-listed, or are proposed for listing as rare, threatened, or endangered
- Are Special Plants as defined by the CNDDB
- Are listed by the CNPS in the online version of its *Inventory of Rare, Threatened, and Endangered Plants of California*; List 1, 2, 3, and 4 species

Special-status wildlife species were defined in accordance with Section 15380 of the CEQA Guidelines and include species that meet one or more of the following criteria:

- Listed, proposed for listing, or candidates for listing as threatened or endangered under the federal Endangered Species Act (FESA)
- Listed or candidate for listing as threatened or endangered under the California Endangered Species Act (CESA)
- Designated as a Species of Special Concern (SSC) or a Fully Protected (FP) species by the CDFW
- Listed on the CDFW "Special Animals" list; or otherwise meet the definition of rare, threatened, or endangered as described in the CEQA Guidelines, Section 15380

Bird species protected under the federal Bald and Golden Eagle Protection Act and bat species considered by the Western Bat Working Group to be high or medium priority (Western Bat Working Group 2017) were also considered and were considered special-status where they met criteria as listed above.

3. Results

The results from the reconnaissance-level survey, rare plant surveys, and aquatic resources delineation are discussed in this section. Habitat, potential for special-status species, and presence of water features that are potentially jurisdictional under the CWA and CFGC are discussed in the following sections for the proposed work at these locations.

Suitable nesting habitat for migratory birds is found within and around the project area of existing substations and transmission line routes, new substation/switching station and transmission line routes, access routes, and staging areas; as a result, migratory birds will not be discussed individually for each project component. For further information on special-status species with potential to occur in the BSA, refer to Table 1, Special-Status Plant Species, in Section 3.3.1, and Table 2, Special-Status Wildlife Species, in Section 3.3.2. Attachment A presents a full list of special-status species and their potential to occur in the BSA. Database records search results from CDFW, CNPS, USFWS, and NMFS are included in Attachment B.

3.1 Vegetation and Land Cover Types

The majority of upland habitat observed throughout the BSA is either hardscaped (pavement and sidewalks) or otherwise developed/landscaped, is agricultural land, or is disturbed habitat consisting of primarily ruderal or non-native species. Table 1 shows the distribution of landcover within the BSA.

Representative vegetation alliances from the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009) are referenced and discussed in the following sections and shown within the BSA on Figure 3. No sensitive vegetation communities or habitats identified in local plans, policies, or regulations, or as designated by CDFW or USFWS, are present within the BSA.

Table 1. Land Cover within the BSA

Land Cover	Acres within BSA
Tree Cover	1.97
Other Waters	1.38
Wetlands	0.20
Riparian	0.90
Grassland	59.35
Agriculture	264.53
Ruderal	2.44
Developed/Disturbed	56.28
Total	387.06

3.1.1 Tree Cover

Tree cover is not included in the following description sections because this land cover type does not correlate with representative vegetation alliances from the *Manual of California Vegetation, Second Edition*. However, this land cover type is included on Figure 3, pages 3 and 7. Tree cover, where mapped, includes planted, ornamental, or landscaped overstory trees that are not associated with agricultural land cover types. There is potential that trees will need to be trimmed or removed to facilitate the project. Locations of these trees are shown on Figure 3 (pages 2, 3, 5, 6, 9, 10, 11, 13, 14, and 17).

3.1.2 Wetlands

Eight depressional seasonal wetlands were delineated within the BSA along the proposed PG&E 230 kV transmission line. Vegetation within the wetlands consisted of seaside barley (*Hordeum marinum*), sparse popcornflower (*Plagiobothrys* sp.), annual hairgrass (*Deschampsia danthonioides*), spikerush (*Eleocharis* sp.), and tall flatsedge (*Cyperus eragrostis*). More details on these wetlands can be found in Section 3.2.

3.1.3 Other Waters

Open water within the BSA includes natural watercourses such as Bear Creek and Paddy Creek, constructed watercourses, and drainage and irrigation ditches. Where emergent vegetation exists, the predominant natural plant communities are *Schoenoplectus* (*acutus*, *californicus*) Herbaceous Alliance (hardstem and California bulrush marshes), *Juncus* (*oxymeris, xiphioides*) Provisional Herbaceous Alliance (irisleaf rush seeps), and *Lolium perenne* Herbaceous Semi-Natural Alliance (perennial rye grass fields). Vegetation within the creeks and along the creek banks is variable, but predominantly includes species such as bulrush (*Schoenoplectus* ssp.), perennial ryegrass (*Festuca perennis* [*Lolium perenne*]), irisleaf rush (*Juncus xiphioides*), and curly dock (*Rumex crispus*). More details on these aquatic features can be found in Section 3.2.

3.1.4 Riparian

Sparse riparian vegetation occurs along the banks of Bear Creek, Paddy Creek, and a realigned tributary to Paddy Creek, where these features bisect the proposed PG&E 230 kV transmission line. Figure 3 depicts

riparian habitat associated with the riverine features within the BSA. In general, the riparian corridors within the BSA are narrow, confined by steep slopes, and sparsely vegetated. Riparian vegetation within the BSA consists mostly of non-native grasses, sparse willows (*Salix* ssp.) along Bear Creek and Paddy Creek, and a few small oaks (*Quercus agrifolia*) and black walnut trees (*Juglans* sp.) along the realigned tributary to Paddy Creek. These narrow riparian areas provide only very marginal-quality riparian corridors for terrestrial wildlife movement.

3.1.5 Grassland

Annual grasslands occur throughout the BSA, in pastures, along roadsides, and in other undeveloped, disturbed areas. Annual grassland can most readily be classified as annual brome grasslands within the *Bromus* (*diandrus*, *hordeaceus*) – *Brachypodium distachyon* Herbaceous Semi-Natural Alliance or *Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance, or else the *Lolium perenne* (*Festuca perennis*) Herbaceous Semi-Natural Alliance (perennial rye grass fields). Where these alliances occur, rip-gut brome (*Bromus diandrus*), seaside barley, foxtail barley (*Hordeum murinum*), soft chess (*Bromus hordeaceus*), and perennial ryegrass are dominant or co-dominant with other non-natives such as black mustard (*Brassica nigra*), fennel (*Foeniculum vulgare*), and bristly ox-tongue (*Helminthotheca echioides*) in the herbaceous layer. Additionally, *Brassica nigra* – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance occurs within annual grasslands in low cover, most commonly near roadsides and other developed areas.

3.1.6 Agriculture

Agricultural monocultures of almond, cherry, and peach (*Prunus* spp.), as well as walnuts (*Juglans* spp.), vineyards, and corn (*Zea mays*) were dominant in the developed agricultural land throughout the BSA.

3.1.7 Ruderal

Ruderal habitat is common in highly disturbed areas, including along roadways, at the edges of hardscape development, and at other infrastructure areas such as levees and railroads. Ruderal habitat is characterized by a lack of vegetation or is dominated by non-native or invasive plant species such as Italian thistle (*Carduus* spp.), yellow starthistle (*Centaurea solstitialis*), black mustard, foxtail barley, filaree (*Erodium botrys*), perennial pepperweed (*Lepidium latifolium*), and stinkwort (*Dittrichia graveolens*) among others.

Brassica nigra – *Centaurea* (*solstitialis*, *melitensis*) Herbaceous Semi-Natural Alliance (upland mustards or starthistle fields) also is prevalent around the ruderal margins of the concrete hardscapes along creek banks and levees.

3.1.8 Developed/Disturbed

Developed areas include existing paved roadways and parking lots; railroad areas; residential, commercial, and industrial development; and areas where vegetation is regularly cleared. These areas lack vegetation entirely or have only scattered weedy grasses and forbs. The developed area also includes a portion of the Lodi Memorial Park and Cemetery located northeast of the intersection of East Lodi Avenue and South Guild Avenue that consists of gravestones, mowed grass, and a large stand of trees. The cemetery is bordered by a fence.

3.2 Potentially Jurisdictional Wetland and Water Features

There are potentially jurisdictional areas under the CWA and CFGC within the BSA (Figure 4). There are approximately 0.200 acre of seasonal wetlands (eight wetlands), approximately 0.247 acre (approximately 359 linear feet) of natural watercourses (one perennial and one intermittent stream), approximately 0.545 acre (approximately 2,775 linear feet) of constructed watercourses, approximately 0.127 acre (approximately 1,805 linear feet) of drainage ditches, and approximately 0.152 acre (approximately 1,654 linear feet) of irrigation ditch in the BSA. The irrigation ditch that runs parallel to the access route and partially intersects the project footprint at PG&E structure W9 was observed during the biological reconnaissance survey on August 11, 2022, at which time it was being used to irrigate a corn crop. The irrigation ditch appears to be seasonally graded and filled, along with the adjacent crop fields, when not in use. The irrigation ditch was not apparent during the 2021 aquatic resource delineation surveys; however, the faint signature of the ditch is intermittently visible in aerial images going back several years (Google Earth 2022). It has no ordinary high water mark and is devoid of vegetation, and as such is presumed to be nonjurisdictional under the CWA and CFGC. While this ditch is presumed to be nonjurisdictional, if it is present during construction, it will be avoided. Placement of this structure will be coordinated with the landowner during final design and construction planning to ensure impacts to this ditch are avoided. There are no potentially jurisdictional wetlands and waters within the project footprint, and none will be impacted. For more information on wetlands and waters within the BSA, refer to the Aquatic Resources Delineation Report (Jacobs 2022).

3.3 Special-Status Species

This section describes special-status species observed (present) during field surveys and any species considered to be likely to occur, that have potential to occur, or that are seasonally present in the BSA. Special-status species that are unlikely to be found in the BSA or otherwise be affected by the project are not discussed in this section and are included in Attachment A.

The CNDDB, CNPS, NMFS, and USFWS database searches identified 71 special-status species within the vicinity of the project, including 39 special-status plant species and 32 special-status wildlife species (Attachment A). There is no designated critical habitat within the vicinity of the project.

3.3.1 Special-Status Plant Species with Potential to Occur

In the CNDDB, USFWS, and CNPS records searches, 39 special-status plant species that could possibly occur within the vicinity of the project were identified. Only two species – succulent owl's-clover (*Castilleja campestris* var. *succulenta*) and Sanford's arrowhead (*Sagittaria sanfordii*) – were determined to have potential to occur in the BSA based on the presence of potentially suitable habitat and known occurrences in the vicinity. Table 1 presents these species and they are described in further detail in the following sections. Neither of these species or other special-status plant species were observed or detected in the project footprint or BSA during the 2021 botanical surveys, and no suitable habitat was observed within the BSA of additional work areas surveyed in August 2022. The remaining species identified from the database queries were determined to be absent because the project footprint (and adjacent areas that may be potentially indirectly impacted) lack suitable habitat, and they were not observed within areas of suitable habitat during appropriately timed botanical surveys within the BSA. A discussion of these species with potential to occur is included in the following paragraphs. Species that are unlikely to occur or are absent are discussed in Attachment A.

Table 2. Special-Status Plant Species with Potential to Occur in the BSA

Scientific Name/ Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
	Federal	State	CNPS			
Castilleja campestris var. *succulenta*/ succulent owl's-clover	T	E	1B.2	Usually occurs in wetlands, occasionally occurs in areas that are not wetlands. Habitat is vernal pools (often acidic) with a variety of characteristics, including small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods. Vegetation communities include valley grassland, foothill grassland, freshwater wetlands, wetland-riparian.	(Mar) Apr-May	Potential to occur. Although there are no CNDDB occurrences within 5 miles of the BSA, a reconnaissance survey conducted in early December of 2019 and an aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. This species was not found within areas of suitable habitat during appropriately timed botanical surveys.
Sagittaria sanfordii/ Sanford's arrowhead	-	-	1B.2	Occurs in wetlands, marshes, and swamps (assorted shallow freshwater). Vegetation communities include freshwater wetlands, wetland-riparian.	May-Oct (Nov)	Potential to occur. Marginally suitable habitat is present in the BSA. There is one CNDDB occurrence within 5 miles of the BSA. This species was not found within areas of suitable habitat during appropriately timed botanical surveys.

[a] Status designations are as follows:

Federal:
T = Threatened

State:
E = Endangered

CNPS California Rare Plant Rank (CRPR):
1B = Rare, threatened, or endangered in California and elsewhere

Threat Rank:
0.2 Fairly threatened in California (20 to 80% of occurrences threatened/moderate degree and immediacy of threat)

Sources:
USFWS 2023a; CDFW 2023; CNPS 2023

3.3.1.1 Succulent Owl's-Clover

Succulent owl's-clover is federally threatened and state endangered and is a CNPS List 1B.2 species (CNPS 2023). It blooms from March or April through May and is found primarily in vernal pools along the lower foothills of the eastern San Joaquin Valley. However, it can be found in small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods (CNPS 2023). This species also is found in valley grasslands, foothill grasslands, freshwater wetlands, poorly drained agricultural developments, and wetland-riparian areas.

There is potential for this species to occur within the BSA because there is marginally suitable habitat, including ponded areas in Bear Creek and constructed watercourses and grasslands. There are no CNDDB occurrences within 5 miles of the BSA; however, the reconnaissance survey conducted in early December

of 2019 and the aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. Suitable habitat for this species is not present within the project footprint, and it was not observed within areas of suitable habitat within the BSA during appropriately timed botanical surveys, so impacts to this species are not anticipated.

3.3.1.2 Sanford's Arrowhead

Sanford's arrowhead is a CNPS List 1B.2 species that blooms from May through October or November and occurs below elevations of 2,133 feet. It grows in slow-moving or standing freshwater ponds, ditches, wetlands, marshes, swamps, and other assorted shallow freshwater resources (CNPS 2023). This species can be found associated with water plantain (*Alisma plantago-aquatica*), water primrose (*Ludwigia peploides*), and various species of cattail (*Typha* spp.).

There is potential for this species to occur within the BSA because there are marginally suitable freshwater resources, including ponded areas in Bear Creek and constructed watercourses, drainage ditches, and seasonal wetlands. There is one CNDDB occurrence within 5 miles of the BSA, located approximately 0.6 mile northwest of PG&E Lockeford Substation, found in a slough along SR 88 between East Kettleman Lane and SR 12 (Figure 5). However, this species was not observed within areas of suitable habitat within the BSA during appropriately timed botanical surveys, so impacts to this species are not anticipated.

3.3.2 Special-Status Wildlife Species

In the records search, 32 special-status wildlife species were identified. However, suitable habitat for only 7 of the 32 species was identified in the BSA. Table 2 presents these species and they are discussed further in the following sections.

Table 2. Special-Status Wildlife Species

Scientific Name/Common Name	Status[a]			Habitat	Potential for Occurrence within the BSA
	Federal	State	CDFW		
Desmocerus californicus dimorphus/ valley elderberry longhorn beetle	T	-	-	Valley elderberry longhorn beetles are found in riparian habitat only in the vicinity of their host plant, the elderberry (*Sambucus* species).	Potential to occur. The host plant, elderberry (*Sambucus* sp.), exists in the BSA. There are five CNDDB occurrences within 5 miles of the BSA.
Agelaius tricolor/ tricolored blackbird	BCC	T	SSC	Found in areas near water, such as marshes, grasslands, and wetlands. They require some sort of substrate nearby to build nests; this substrate often is aquatic vegetation. They also need foraging areas, which can consist of grassland or agricultural pastures such as rice, grain, or alfalfa.	Potential to occur. There is suitable nesting habitat present along canals and creeks within the BSA, and suitable foraging habitat in grassland habitats and agricultural areas. There are four CNDDB occurrences within 5 miles of the BSA.

Scientific Name/Common Name	Status[a]			Habitat	Potential for Occurrence within the BSA
	Federal	State	CDFW		
Athene cunicularia/ burrowing owl	BCC	-	SSC	Open, dry annual or perennial grasslands with low-growing vegetation and on the margins of disturbed/developed habitats. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Potential to occur. Suitable habitat is present in the BSA, including burrows along the margins of vineyards, orchards, and other agricultural developments. There are no CNDDB occurrences within 5 miles of the BSA.
Buteo swainsoni/ Swainson's hawk	BCC	T	-	Suitable foraging habitat includes a variety of agriculture crops, grassland, and pasture. Alfalfa fields are more routinely used by foraging Swainson's hawks than any other crop type. Suitable nesting habitat includes trees within mature riparian forest or corridors, lone oak trees and oak groves, and mature roadside trees (man-made structures).	Likely to occur. There is suitable nesting and foraging habitat within the BSA in tall emergent trees and throughout the agriculture areas. There are 38 CNDDB occurrences within 5 miles of the BSA.
Elanus leucurus/ white-tailed kite	-	-	FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows for foraging close to isolated, dense-topped trees for nesting and perching.	Potential to occur. There is suitable foraging and nesting habitat present within the BSA and species is likely to fly over. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.
Riparia riparia/ bank swallow	BCC	T	-	Forage in flight over (or near) water at all seasons. Nest in colonies in vertical banks of dirt or sand, usually along rivers or ponds, seldom away from water.	Potential to occur. Suitable foraging habitat is present within the BSA along natural and constructed and watercourses. There is one CNDDB occurrence within 5 miles of the BSA.
Setophaga petechia/ yellow warbler	-	-	SSC	Breed in shrubby thickets and woods, particularly along watercourses and in wetlands. Common trees include willows, alders, and cottonwoods across North America.	Potential to occur. Suitable foraging and nesting habitat is present within the BSA. There is one CNDDB occurrence within 5 miles of the BSA.

[a] Status designations are as follows:

Federal Designations:
BCC = Bird of Conservation Concern, T = Threatened

State Designations:
T = Threatened, CE = Candidate Endangered

California Department of Fish and Wildlife (CDFW) Designations:
SSC = Species of Special Concern, FP = Fully Protected

Sources:
CDFW 2023; NMFS 2023; USFWS 2023a

3.3.2.1 Valley Elderberry Longhorn Beetle

The valley elderberry longhorn beetle (VELB; *Desmocerus californicus dimorphus*) is listed as threatened under the FESA. This subspecies of longhorn beetle is strongly associated with its host plant, the

elderberry (*Sambucus* spp.), and is nearly always found on or in close proximity to the plant. Elderberry species can be found along creek banks, places of organic waste disposal, farms, homesteads, and aquatic-riparian resource areas. Exit holes on elderberry branches from larval galleries can be evident on host plants during post-mating periods.

There are five CNDDB occurrences for VELB within 5 miles of the BSA (Figure 5) and two large elderberry shrubs were observed during the 2021 botanical surveys (Figure 3, page 3). One shrub is located just within the project footprint, next to the proposed guard structure and pull site between PG&E proposed structures W1 and W2. The other shrub is located within the fence line of PG&E Lockeford Substation, surrounded by a small patch of grassland on the eastern side of the substation's general construction yard and outside of the project footprint. Stems ranges from approximately 0.5 inch to up to 4 inches in diameter. No exit holes were noted on the observed shrubs. The VELB and its various life stages have the potential to be in the BSA wherever elderberry is found.

3.3.2.2 Tricolored Blackbird

The tricolored blackbird (*Agelaius tricolor*) is listed as threatened under the CESA and is considered a USFWS Bird of Conservation Concern (BCC) (USFWS 2023a). This species forms large breeding colonies by the last week of March through August. Nesting locations typically are freshwater marshes with cattail, rushes, and willows. Increased human activity and competition for nesting locations by the black-crowned night-heron have precluded the species from using much of their former nesting habitat (Holcomb 1979). As a result, blackbirds have been forced to nest in vineyards, orchards, manmade structures, and triticale fields.

There is suitable nesting habitat in emergent vegetation along Paddy Creek and Bear Creek where these features bisect the BSA. There is suitable foraging habitat throughout undeveloped grassland or pasture areas within the BSA. There are four CNDDB occurrences for the tricolored blackbird within 5 miles of the BSA (Figure 5). Of these records, one was a freshwater pond flanking a developed vineyard, one was a canal that is located west of the City of Lodi, one was at Paddy Creek, and one was on the bank of the Calaveras River (CDFW 2023).

3.3.2.3 Burrowing Owl

The burrowing owl (*Athene cunicularia*) is a state species of special concern and a USFWS BCC that is primarily a grassland species, but it is known to persist and occasionally thrive in some landscapes that are altered by human activity (Rosenberg and Haley 2004). Suitable habitat characteristics include burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation (Haug et al. 1993). Nest and roost burrows are most commonly dug by ground squirrels (*Spermophilus beecheyi*; Trulio 1997), but they may use other mammal burrows or manmade structures such as culverts, piles of concrete rubble, and pipes (Ronan 2002). Most California populations are nonmigratory and these habitat types serve for breeding, foraging, and overwintering.

Burrows along the margins of vineyards, orchards, and other agricultural developments can potentially provide habitat for the burrowing owl. Although there are no CNDDB occurrences for this species within 5 miles of the BSA, there is low potential for the species to occur in the vicinity of the project area year-round as there are burrows within grassland or pasture areas, along the margins of vineyards, orchards, and other agricultural developments that could potentially provide nesting habitat. Suitable foraging habitat also is present in grassland or pasture areas. No burrowing owl sign (white-wash, pellets) was observed within the BSA during biological surveys. Potential nesting and foraging habitat, where it occurs,

is fragmented, highly disturbed, and actively cultivated for agricultural use, indicating marginal or low-quality habitat.

3.3.2.4 Swainson's Hawk

The Swainson's hawk (*Buteo swainsoni*) is listed as threatened under the CESA and is a USFWS BCC (USFWS 2023a). This species is highly gregarious, forming colonies that number in the thousands (Brown and Amadon 1970). This species winter principally in South America and less commonly in Mexico and the southern tip of the United States (Fuller et al. 1998). The Swainson's hawk arrives in California as early as March, where adults reach breeding areas in the Central Valley of California. This species prefers large prairies, pastures, and narrow bands of riparian vegetation along water courses, and small, isolated stands of valley oak (*Quercus lobata*) for nesting. However, the Swainson's hawk has been found in urban neighborhoods and agricultural developments (England 1995). Rapid urbanization or crop changes near cities could cause the long-term decline of Swainson's hawks in existing urban neighborhoods. Mating pairs often return to their previous nest location or within proximity to it for recurring breeding seasons (Brown and Amadon 1970).

There are 38 CNDDB occurrences for this species within 5 miles of the BSA (Figure 5). Of these records, the nearest occurrence is located within the project area near PG&E tubular steel poles W7 and W8 approximately 0.75 mile southwest of PG&E Lockeford Substation. There is suitable nesting and marginally suitable foraging habitat within and adjacent to the BSA. Suitable nesting habitat occurs in large trees that are common along roadways, in residential and agricultural areas, and along watercourses such as Bear Creek and Paddy Creek. Foraging habitat is marginal within the BSA, primarily in areas of fragmented grassland or pastureland. The dominant agriculture uses within the BSA (vineyard, cherry, and walnut) are not preferred by Swainson's hawk and therefore provide low-quality foraging habitat.

3.3.2.5 White-tailed Kite

The white-tailed kite (*Elanus leucurus*) is a California FP species. This species inhabits rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. This species forages in grasslands, marshes, riparian edges, and cultivated fields where prey species (mainly small mammals) are relatively abundant (Kaufman 1996). Kites typically nest on the tops of trees close to good foraging locations.

There is marginally suitable nesting and foraging habitat for the species in the vicinity of the BSA where it includes or is in proximity to grasslands, pastures, and agricultural areas that may support small mammal prey. There is no suitable nesting habitat for this species within the project footprint, but there is suitable nesting habitat in the form of dense-top trees along roadways, in residential and agricultural areas, and along watercourses such as Bear Creek and Paddy Creek, within and near the BSA. There is potential for the species to forage in undeveloped areas in the vicinity of all work locations. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.

3.3.2.6 Bank Swallow

The bank swallow (*Riparia riparia*) is listed as threatened under the CESA, as a USFWS BCC (USFWS 2023a), and as a common bird of steep decline by Partners in Flight (Partners in Flight 2021). This species is sociable with its nesting habits, and nesting colonies often contain from a dozen to many hundreds of breeding pairs (Beyer 1938). It winters in eastern and southern Africa, South America, and the Indian subcontinent and returns to the United States for breeding towards the end of March. It leaves breeding ranges by the end of September. Bank swallows build nests, often in large colonies, in vertical banks and

bluffs (Beyer 1938). These colonies usually are made in loose soils into which the birds can burrow easily. Each individual bank swallow chooses first a colony, according to its location, and then a nest site within the colony area. The male begins to dig a burrow into the bank before he has a mate; the female then hovers in front of burrows to choose a mate and his nest site (Petersen 1955). The nests usually are located mostly in the upper third of the bank to avoid ground predators. Increasing urbanization and loss of nesting habitat has caused a rapid decline of bank swallows in their existing Californian ranges.

There is one CNDDB occurrence within 5 miles of the BSA (Figure 5). This occurrence is located approximately 5 miles north from new PG&E tubular steel pole E1 along the bank of the Mokelumne River (CDFW 2023). There is potential nesting habitat along the creek banks of Bear and Paddy creeks that overlap the BSA. The proposed PG&E structure W11 has the closest work area to the western bank of Bear Creek, located approximately 75 feet west. Additionally, bank swallows were observed in mixed swallow flocks during the reconnaissance-level survey conducted in December of 2019 (Table 1).

3.3.2.7 Yellow Warbler

The yellow warbler (*Setophaga petechia*) is a CDFW SSC. Nest preference of this species is shrubby thickets and woods along watercourses (CDFW 2023). Common trees used for nesting locations are willows, alders (*Alnus* ssp.), and cottonwoods (*Populus* spp.) (CDFW 2023).

There is one CNDDB occurrence within 5 miles of the BSA (Figure 5). It is approximately 4.7 miles north from new PG&E tubular steel pole E13 in a thicket along the bank of the Mokelumne River (CDFW 2023). Sparse willows along the banks of Bear Creek, Paddy Creek, and associated drainages within the BSA along the proposed PG&E 230 kV transmission line may provide marginally suitable nesting habitat; however, these areas do not constitute “dense thickets” and are considered low quality. Potential foraging habitat includes deciduous trees and shrubs that support insect prey and could occur throughout the BSA.

While the majority of the BSA is developed and disturbed, there is still potentially suitable nesting habitat for migratory birds. Nesting bird surveys will be conducted prior to work activities if they take place during the nesting bird season.

3.3.3 Potential Wildlife Corridors and Nursery Sites

Natural watercourses within the BSA include Bear Creek and Paddy Creek. Bear Creek is a perennial creek and Paddy Creek is an intermittent creek. At the time of the delineation, Paddy Creek was dry and Bear Creek had only isolated areas of standing water (Jacobs 2022). During times of high flow and hydrological connectivity within each of these creeks, Paddy Creek and Bear Creek could potentially provide migratory pathways for aquatic species. However, there will be no impacts to Bear Creek or Paddy Creek and, therefore, no impacts to migratory pathways for aquatic species.

Migratory birds may move through the BSA during work activities and may nest in the vicinity. Construction activities may temporarily degrade nesting habitat within the immediate vicinity of the work locations; however, any potential effect is expected to be minimal because of the already-disturbed nature of the work locations and large amount of surrounding habitat.

4. Discussion and Summary of Recommendations

4.1 Special-Status Species

The majority of the BSA is cultivated and disturbed. While succulent owl’s clover and Sanford’s arrowhead were determined to have the potential to occur within the BSA, they were not observed within areas of

suitable habitat during appropriately timed botanical surveys, and the mesic habitats that they are associated with will not be impacted during project construction. As such, they are not expected to be present or adversely affected during project activities.

The VELB and its various life stages have the potential to occur in the BSA wherever elderberry is found. Project activities, including removal of elderberry plants, could result in direct injury and mortality of VELBs. Prior to construction, a focused survey to determine the presence of elderberry will be conducted and, if found, it will be avoided during construction.

Tricolored blackbird, burrowing owl, Swainson's hawk, white-tailed kite, bank swallow, and yellow warbler have potential to occur within the BSA. Suitable foraging habitat for these species is present in the vicinity of all the work locations and there is suitable nesting habitat for the tricolored blackbird, Swainson's hawk, bank swallow, and yellow warbler in the vicinity of the project footprint. Project activities have the potential to impact nesting individuals of these and other species protected under the Migratory Bird Treaty Act. Potential temporary impacts could include nest abandonment and degradation of foraging habitat. Given the limited size of the work areas relative to the surrounding expanse of adjacent suitable foraging habitat areas, and the existing disturbed nature of the work areas, the temporary loss of foraging habitat is not expected to adversely affect these or other bird species. Preconstruction nesting bird surveys will be completed prior to project activities, and no impacts to these species are expected. Appropriate activity-free buffers that should be implemented around migratory bird nests are identified in PG&E's Avian Program (PG&E 2015).

4.2 Water Resources and Wetlands

Within the BSA, there are eight seasonal wetlands, natural watercourses (one perennial and one intermittent stream), constructed watercourses, and drainage ditches; however, none of these potentially jurisdictional wetlands and waters are within the project footprint and none will be impacted. An irrigation ditch within the BSA that runs parallel to the access route and partially intersects the project footprint at PG&E structure W9 will be avoided during construction. Placement of this structure will be coordinated with the landowner during final design and construction planning to ensure impacts to this ditch are avoided.

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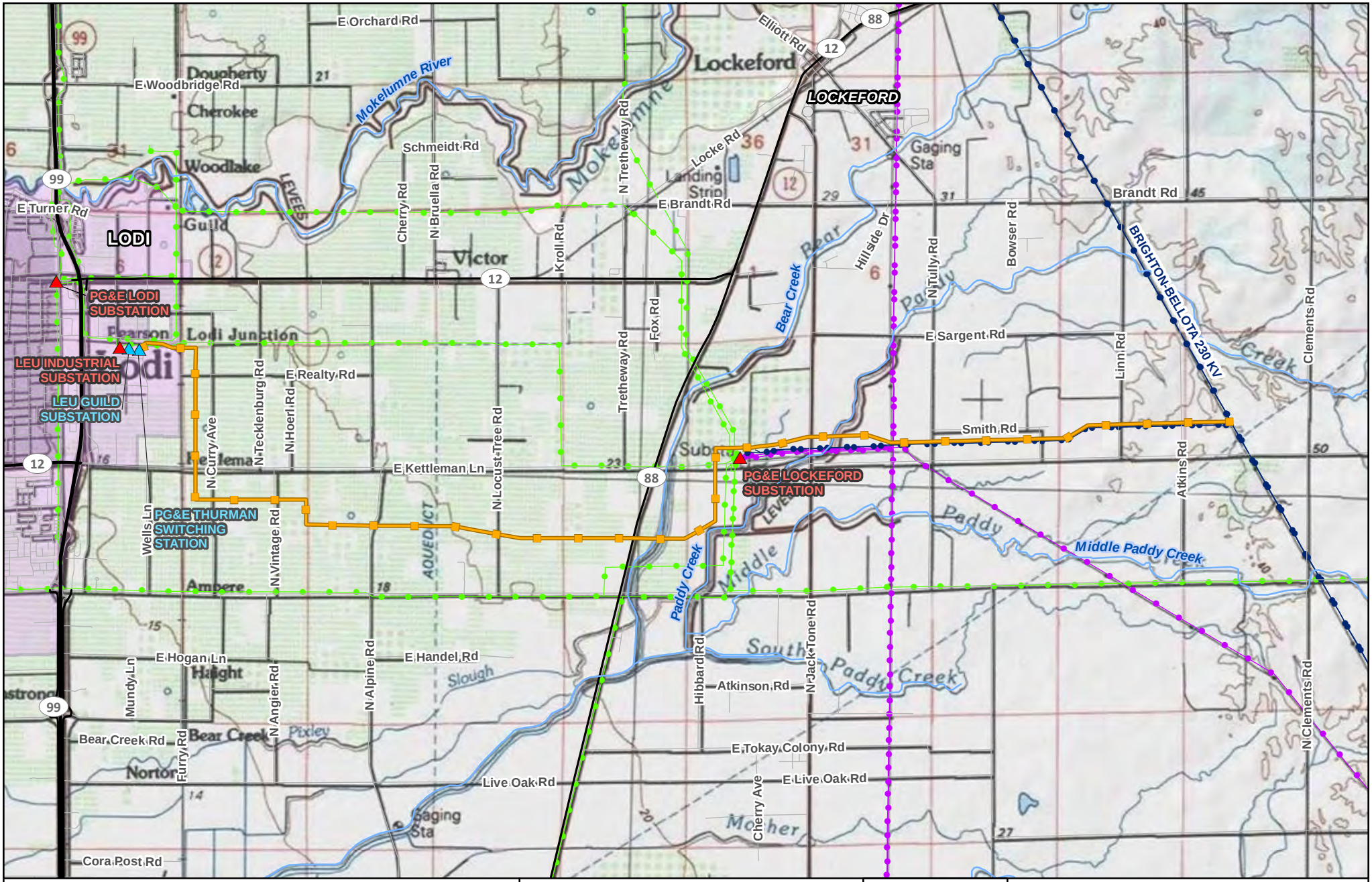
Figures



Legend

- Existing Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line
- Existing PG&E 115 kV Transmission Line
- Existing PG&E 230 kV Transmission Line
- Major_Roads
- Local Road
- River/Stream
- City Boundary

Source:
1) Base Map Source: Esri USA Topo Maps

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Figure 1
Project Location
Northern San Joaquin 230 kV Transmission Project

Jacobs

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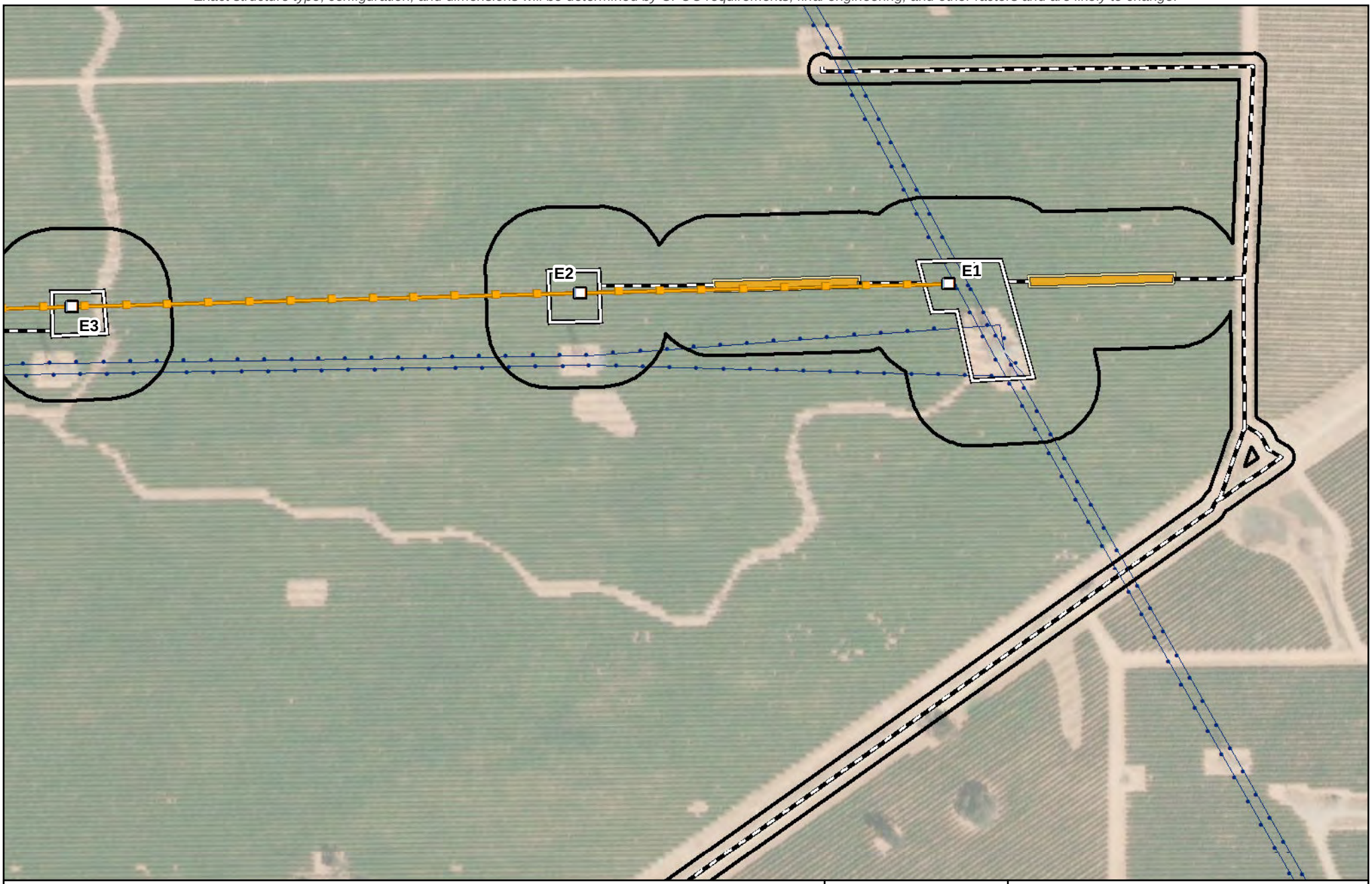
Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

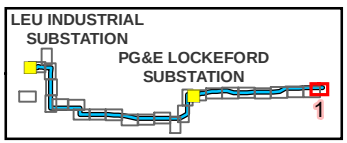


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FIGURE 2
Project Elements and Biological Resources Survey Area

Northern San Joaquin 230 kV Transmission Project

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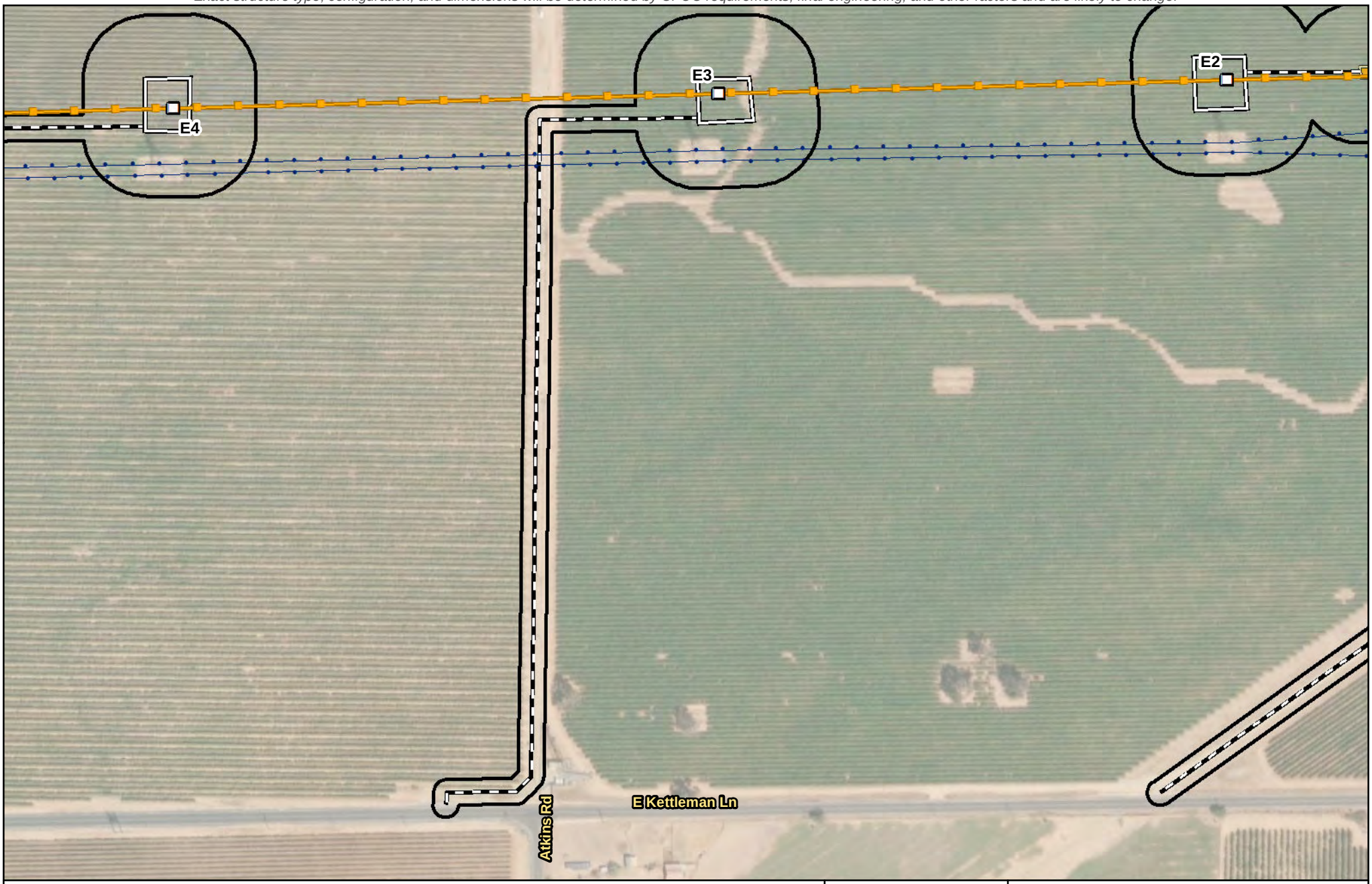

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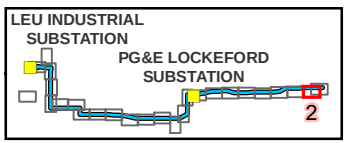

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FIGURE 2
Project Elements and Biological Resources Survey Area
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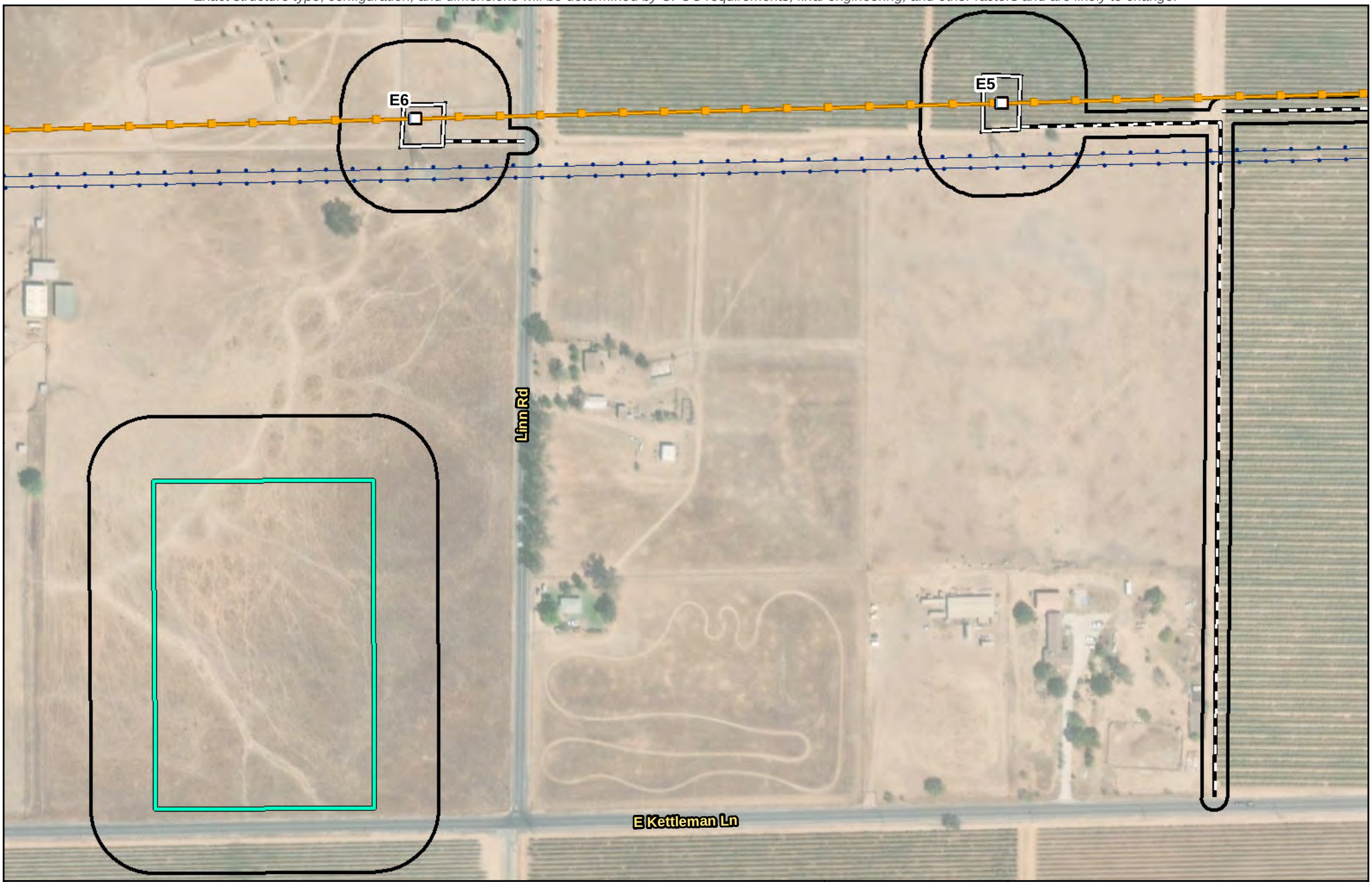

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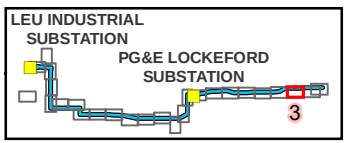

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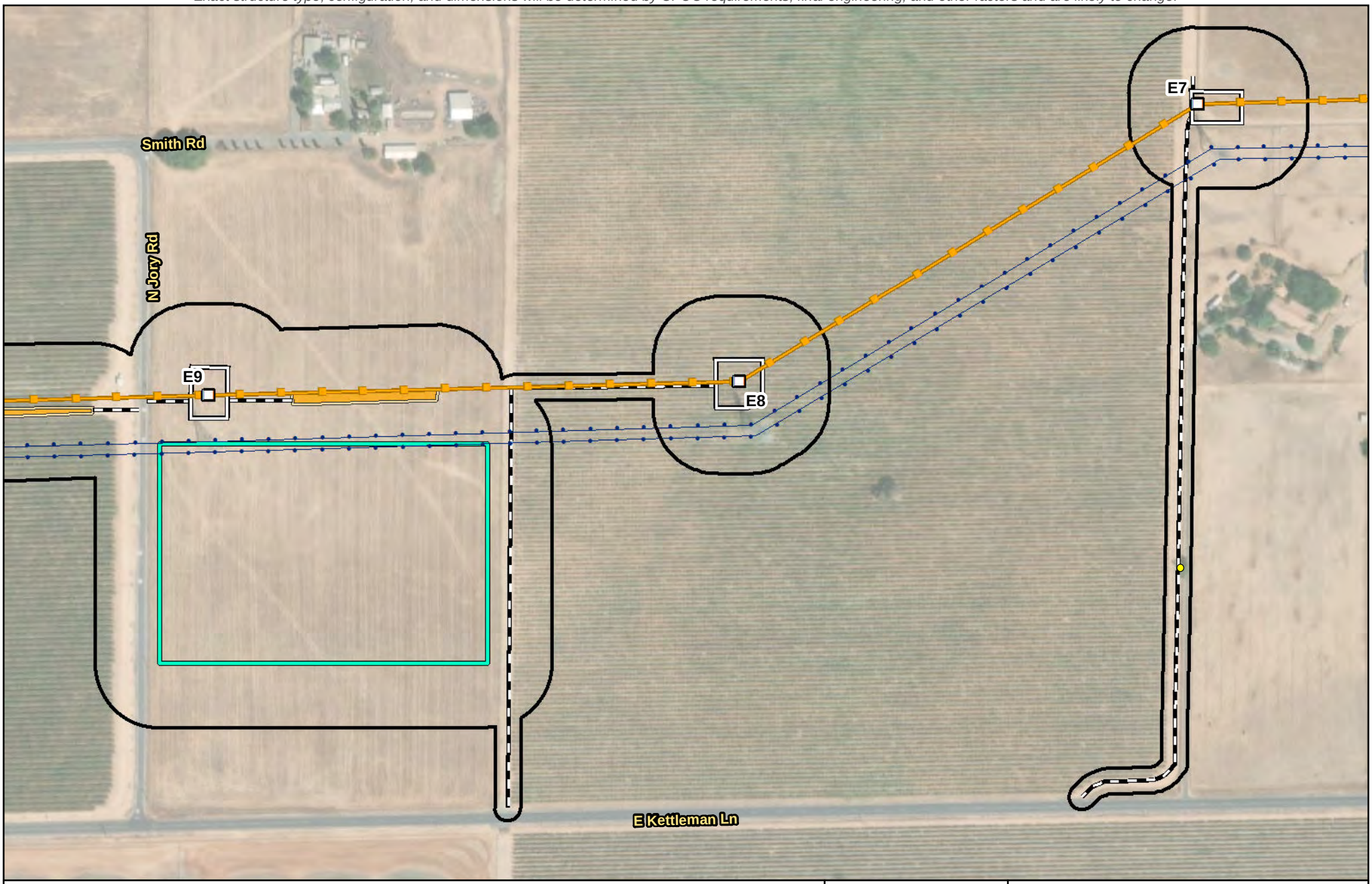

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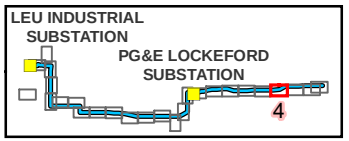

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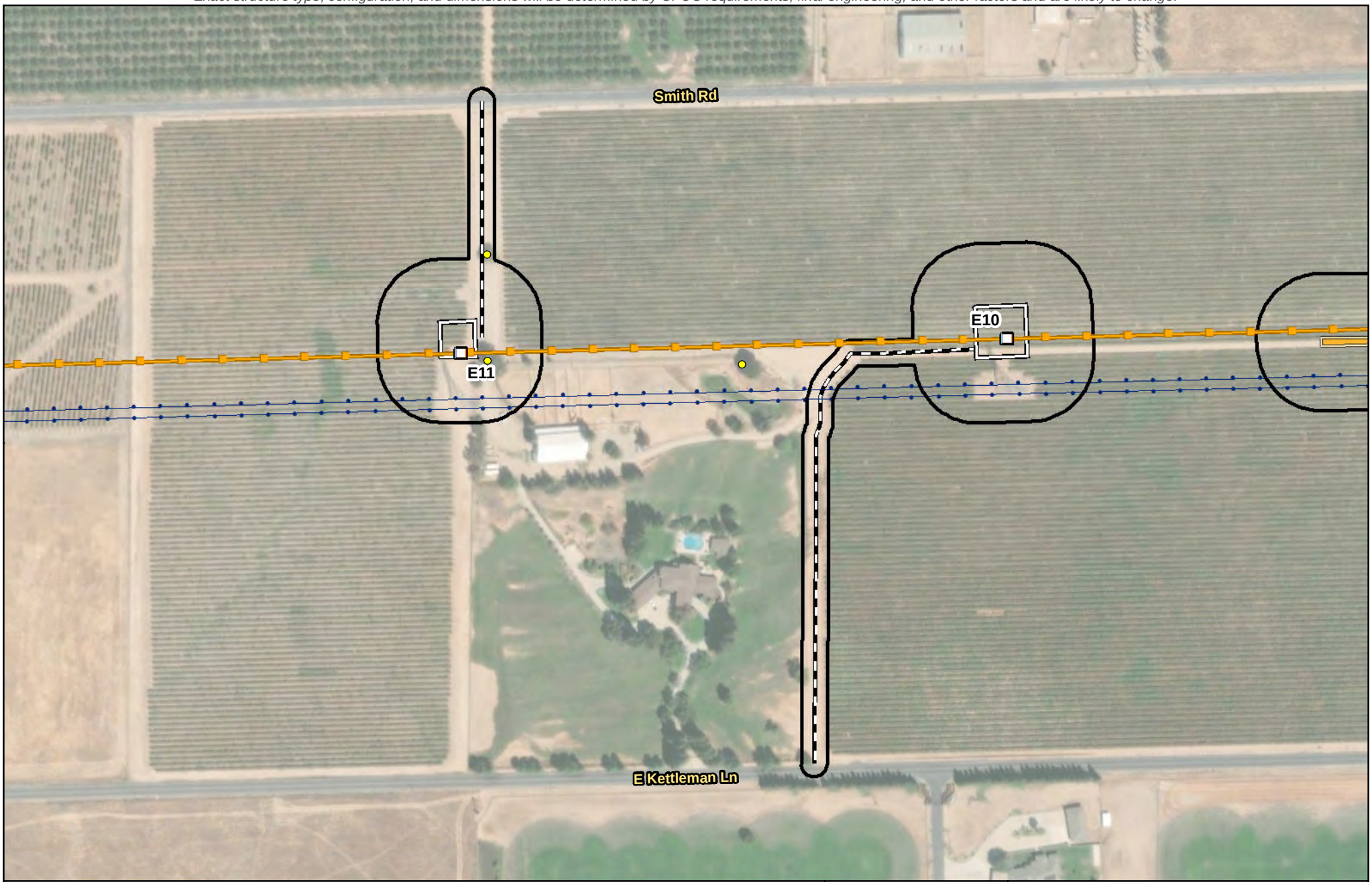

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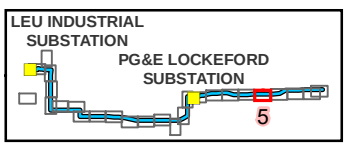

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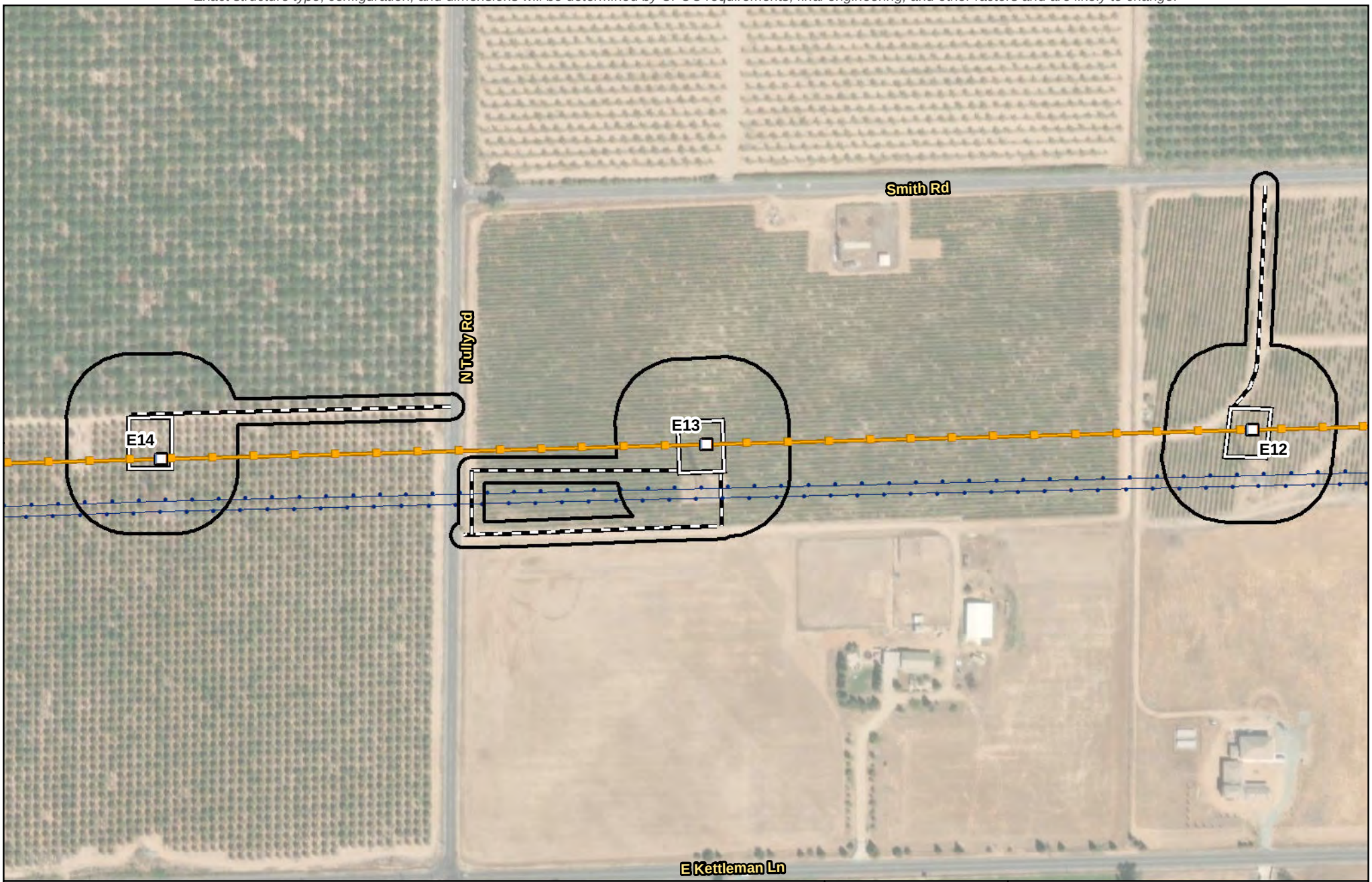

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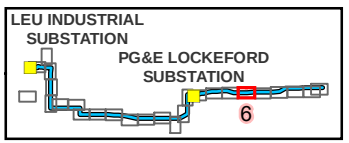

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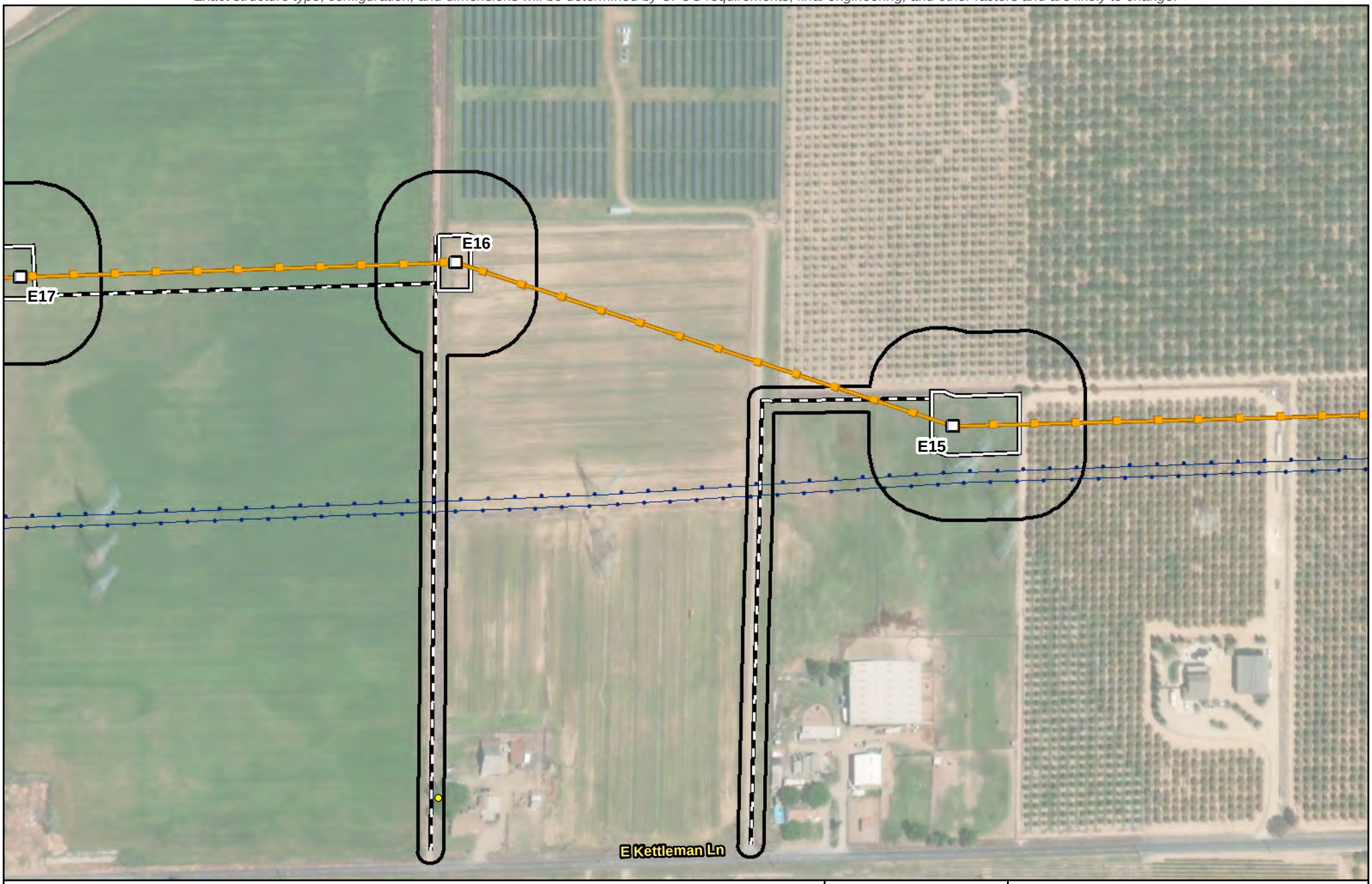

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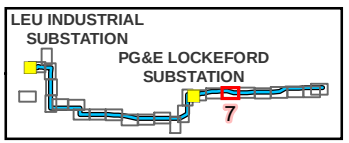

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FIGURE 2
Project Elements and Biological Resources Survey Area

Northern San Joaquin 230 kV Transmission Project

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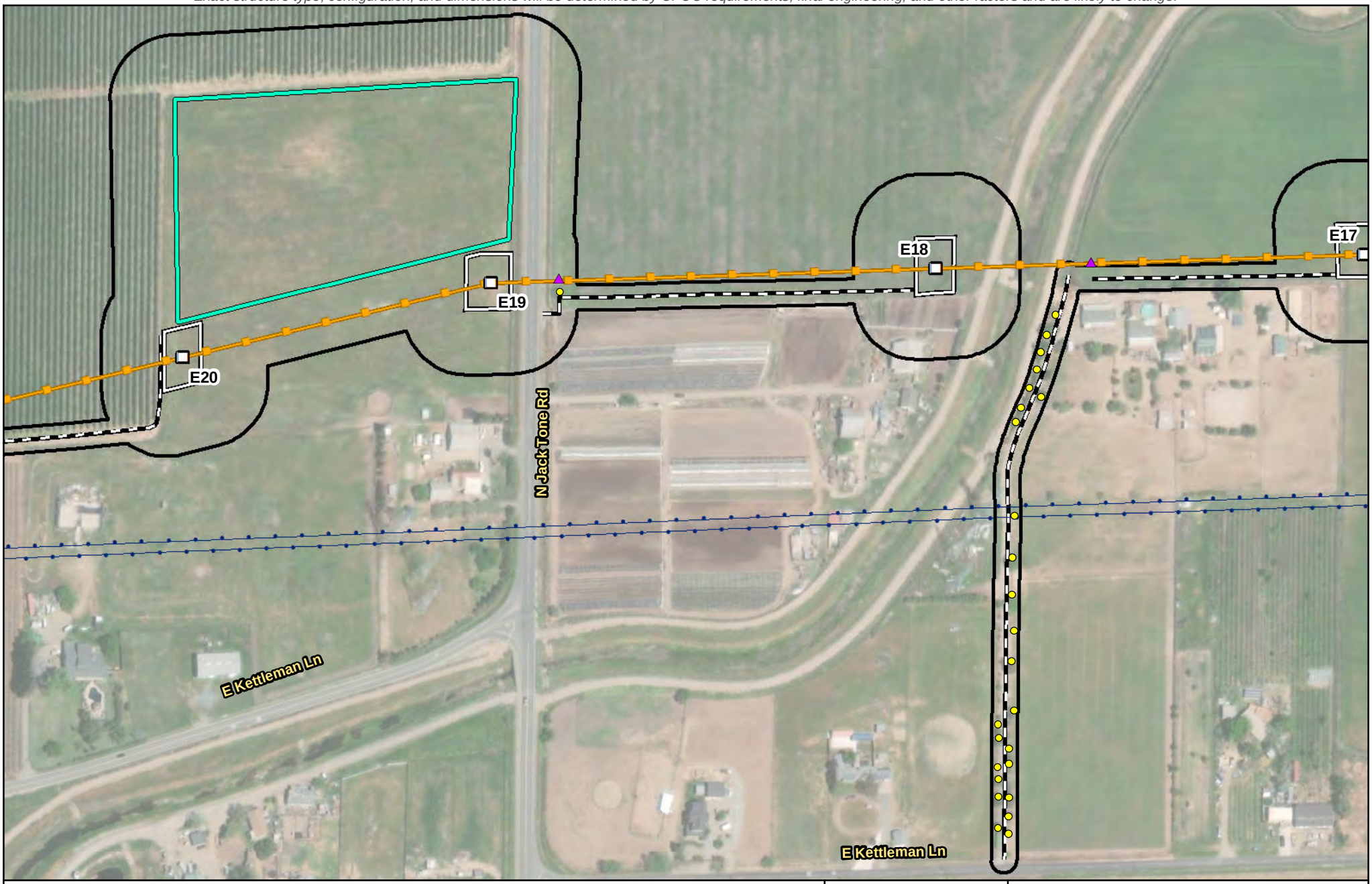

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
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- Existing 230 kV Transmission Line

Proposed Impact Areas

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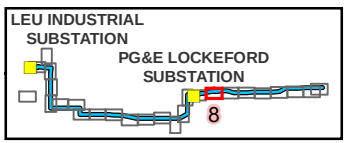

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FIGURE 2
Project Elements and Biological Resources Survey Area
Page 8 of 26
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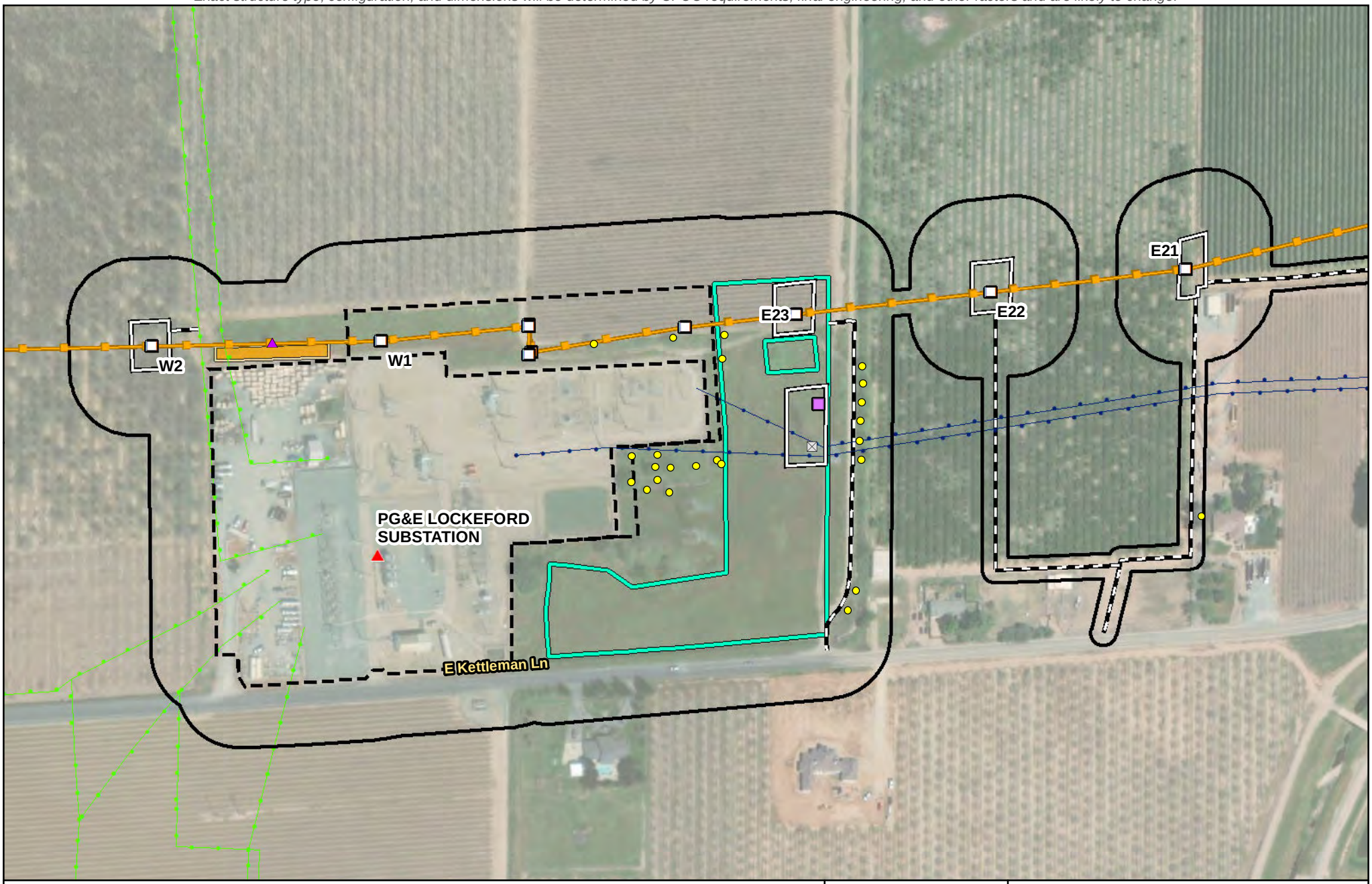

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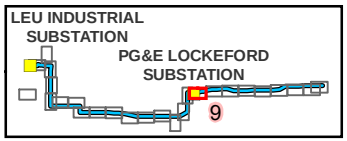

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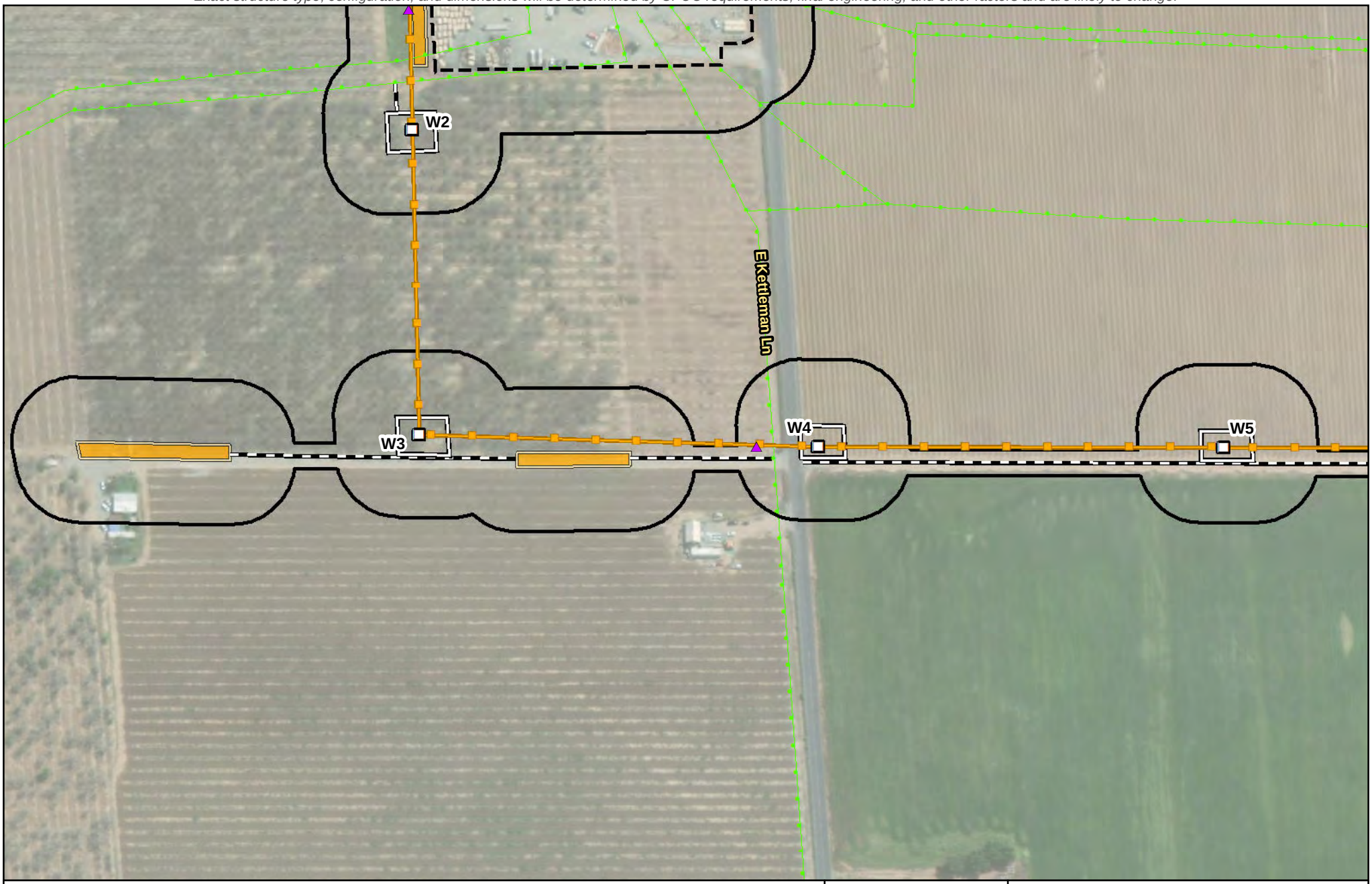

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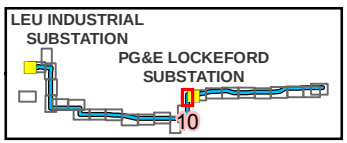

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Page 10 of 26
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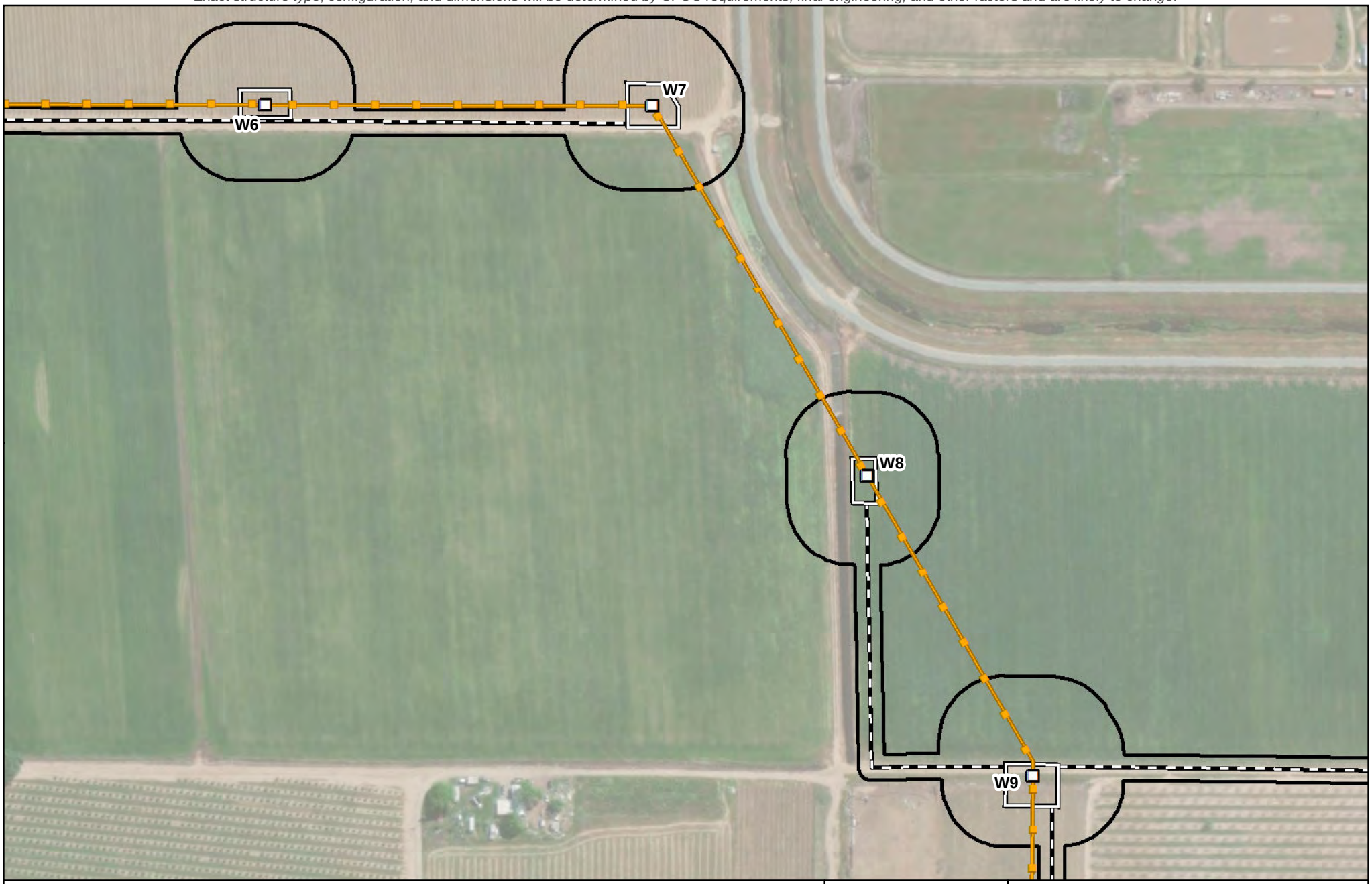

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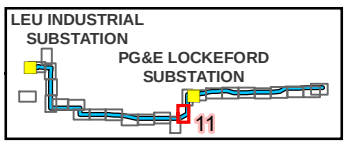

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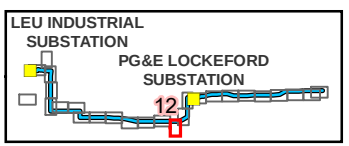

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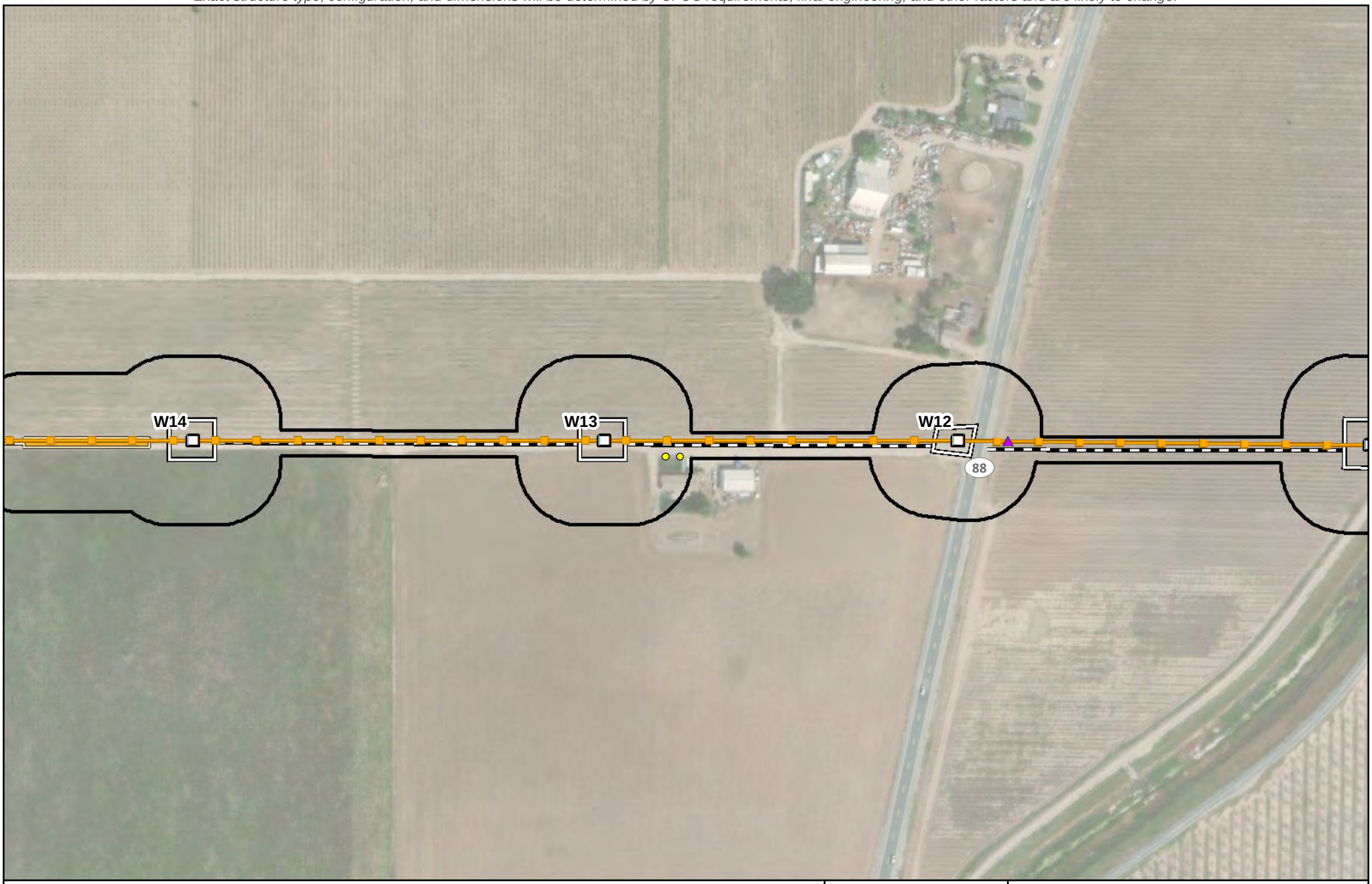

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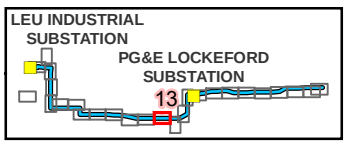

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FIGURE 2
Project Elements and Biological Resources Survey Area
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

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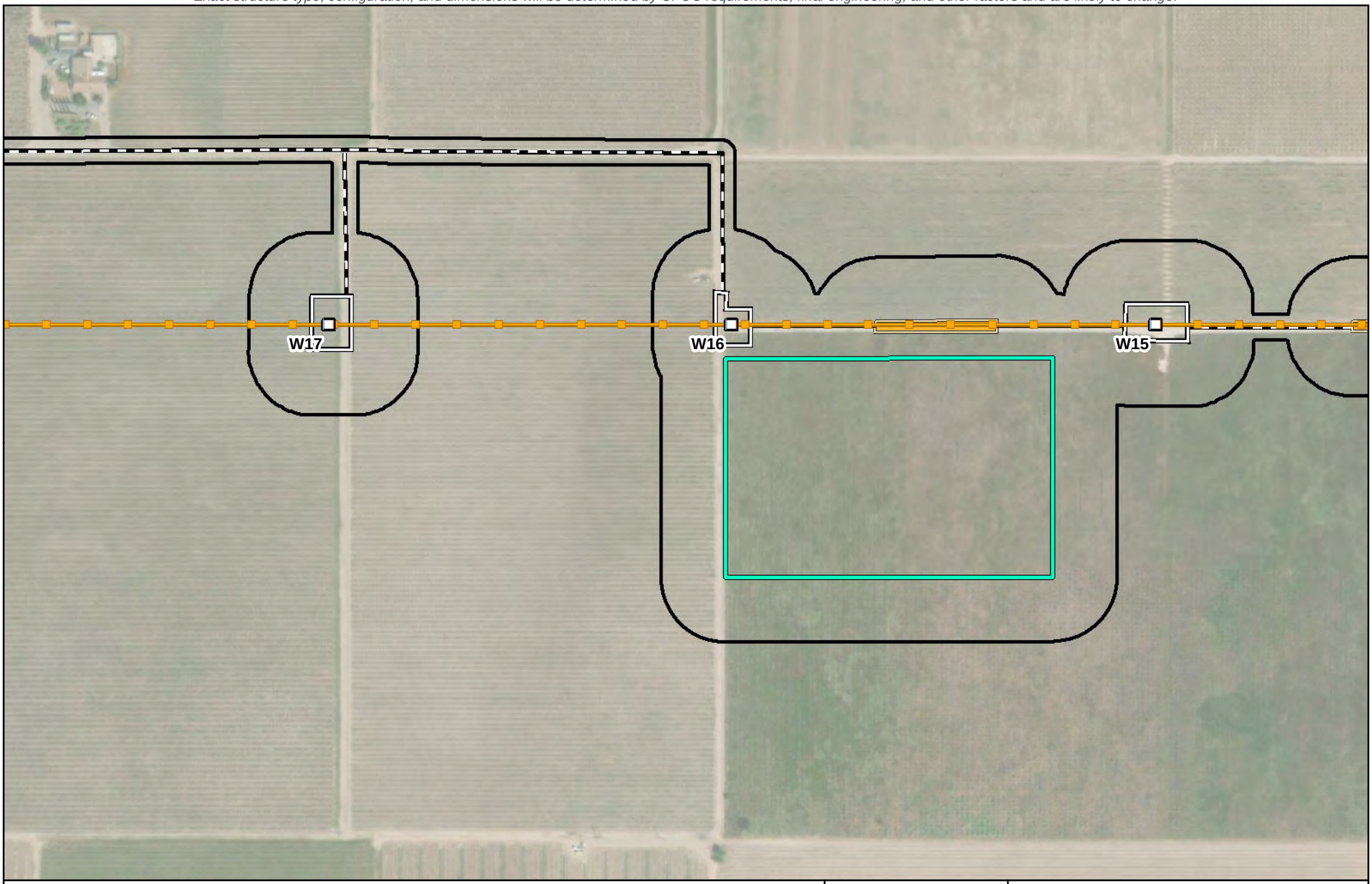

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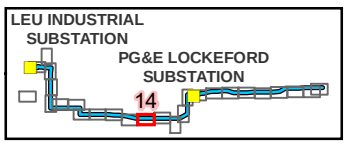

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Page 14 of 26
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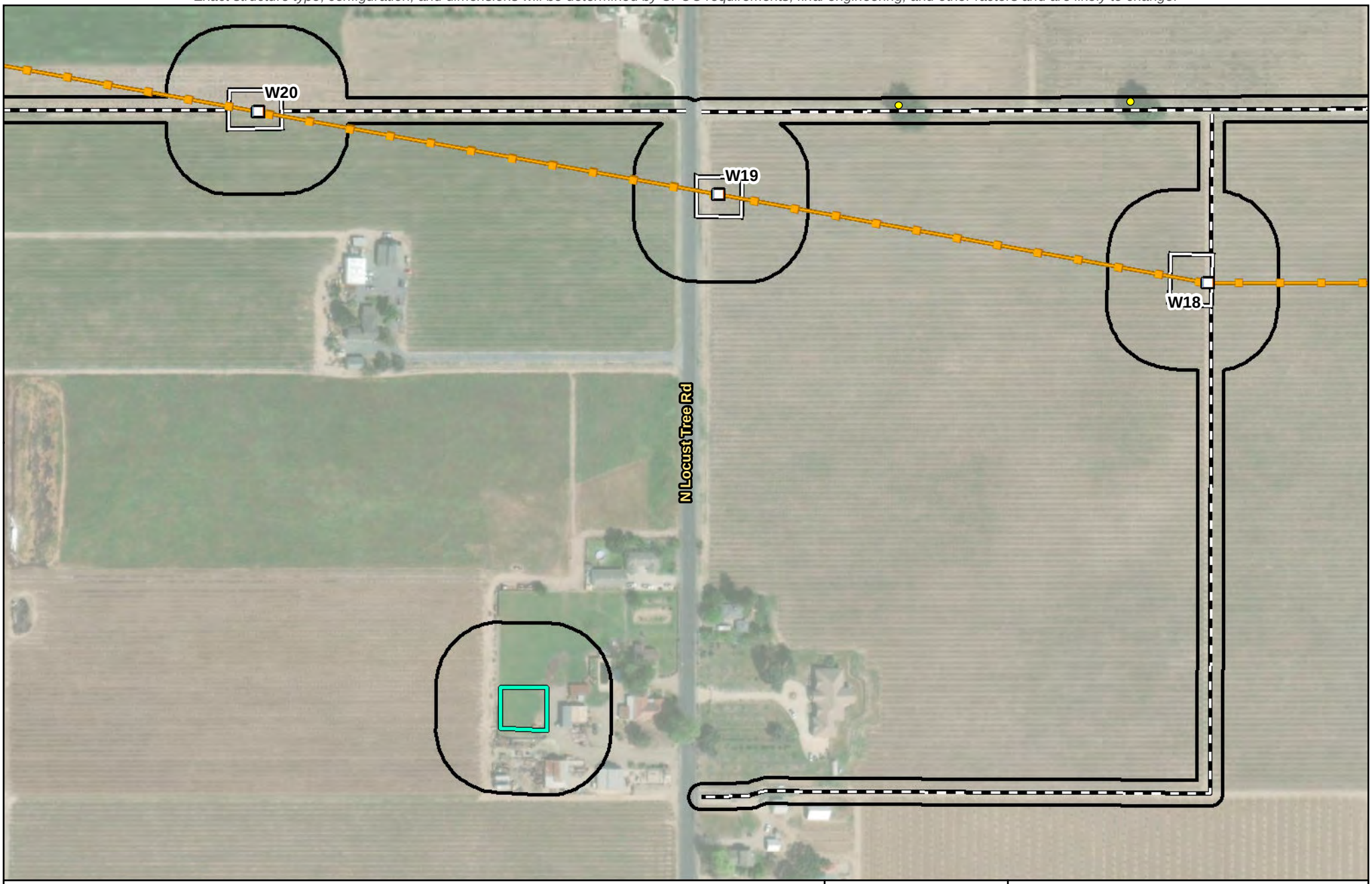

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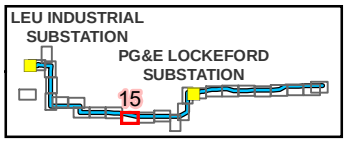

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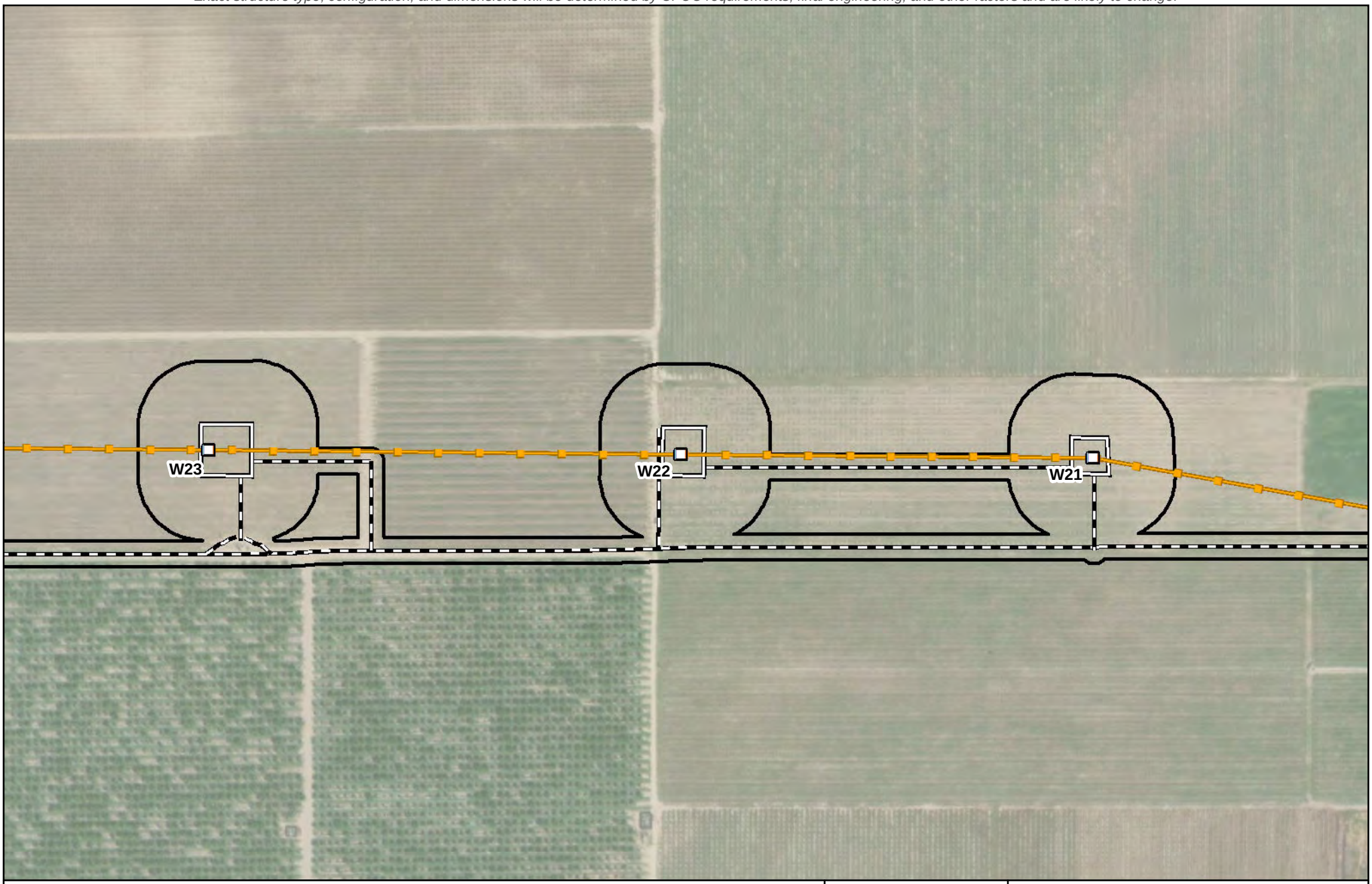

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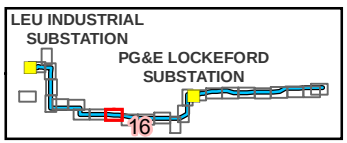

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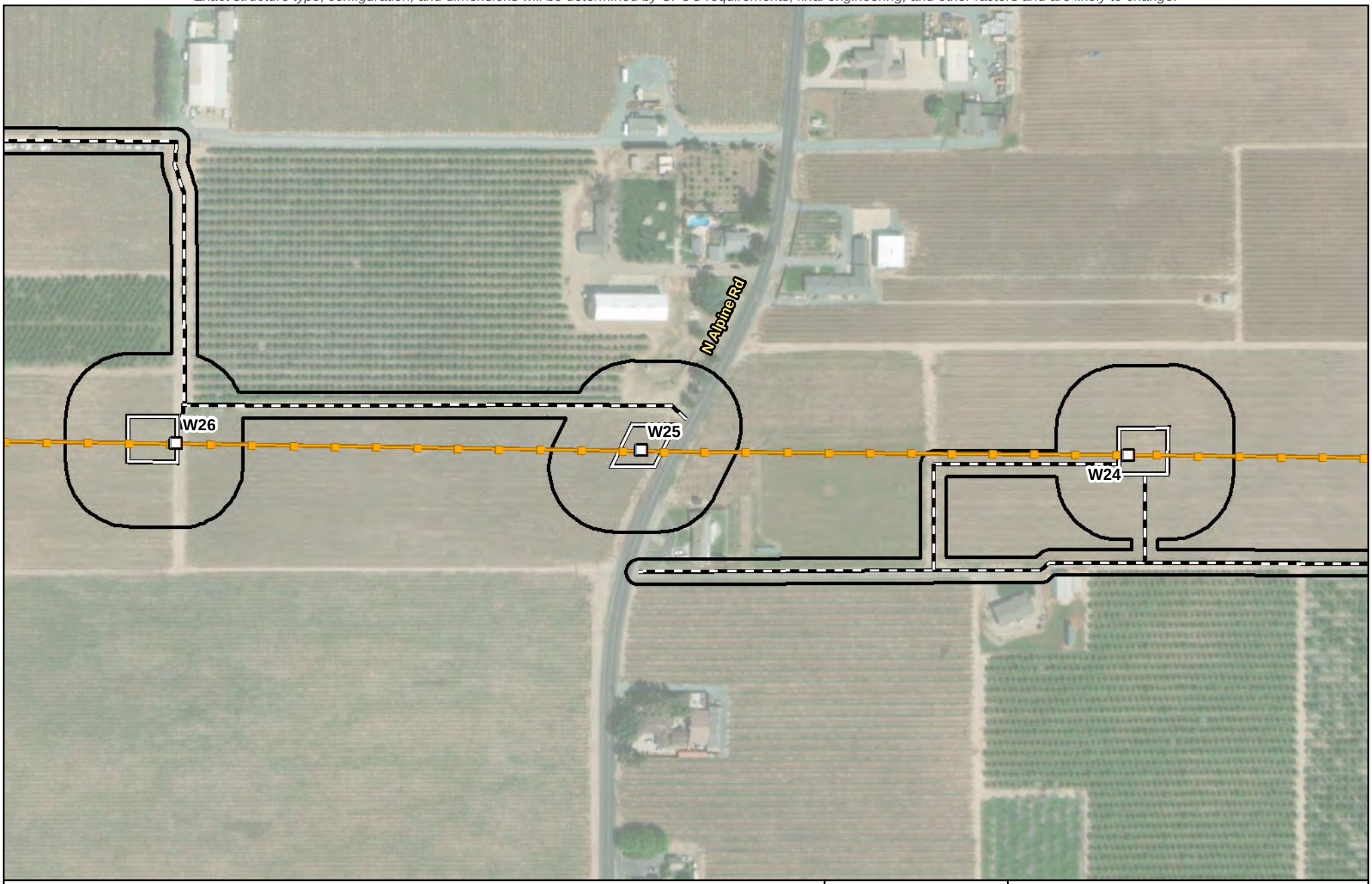

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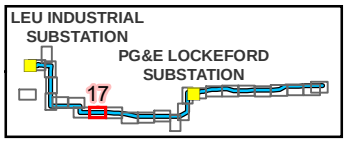

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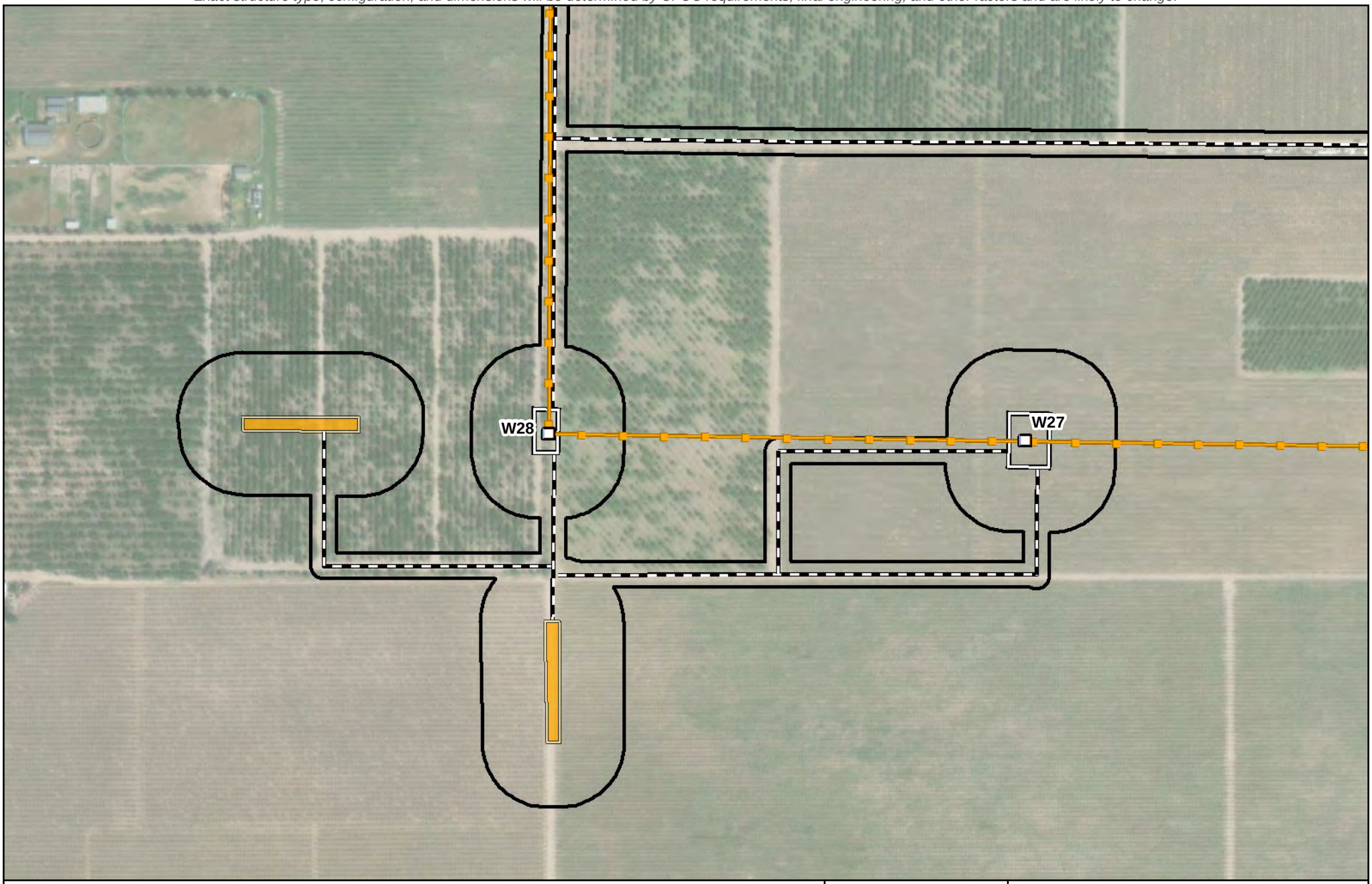

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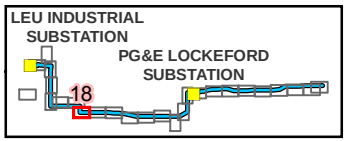

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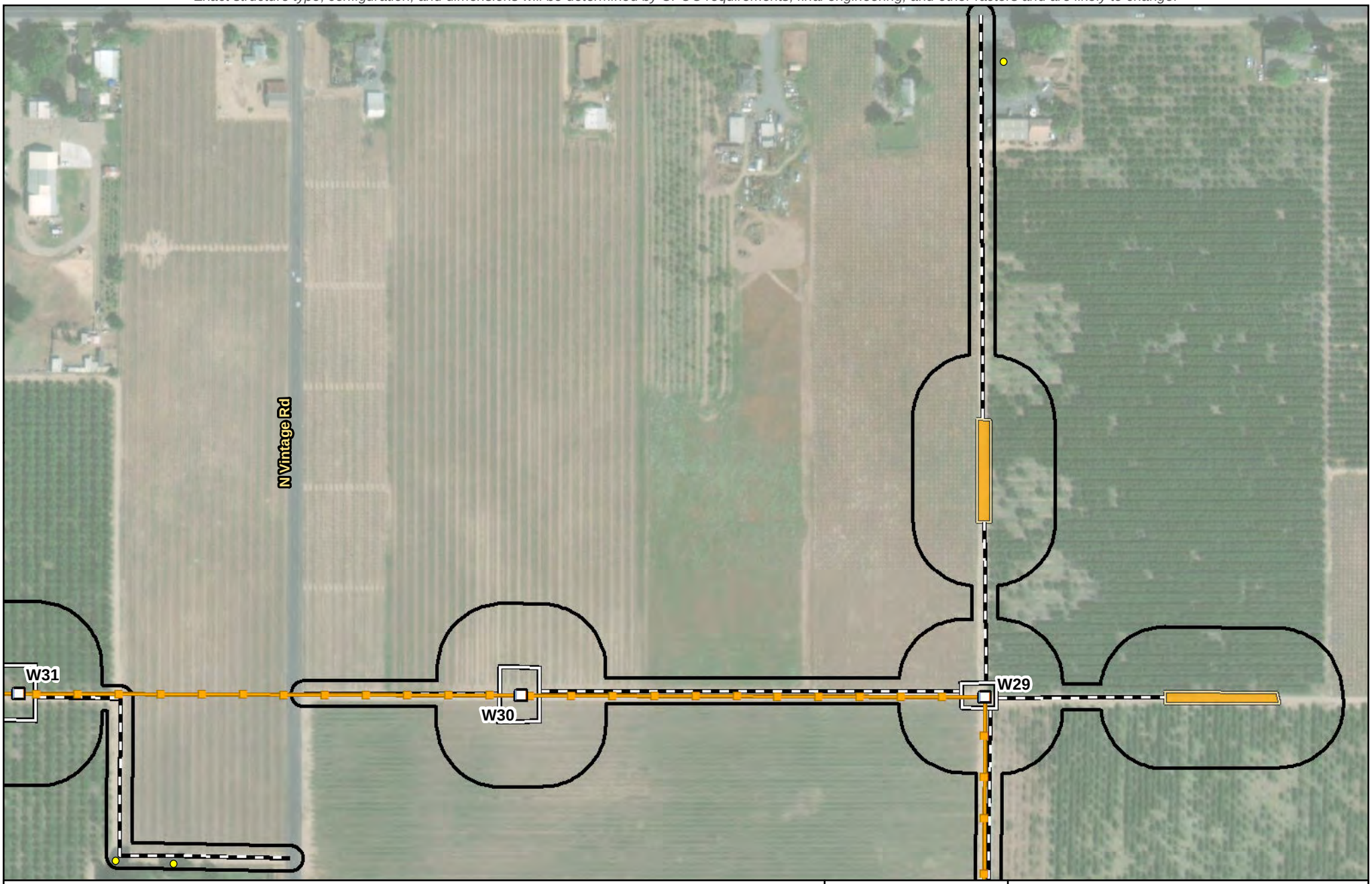

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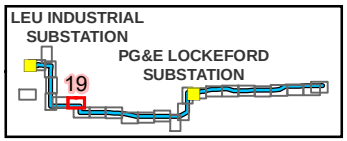

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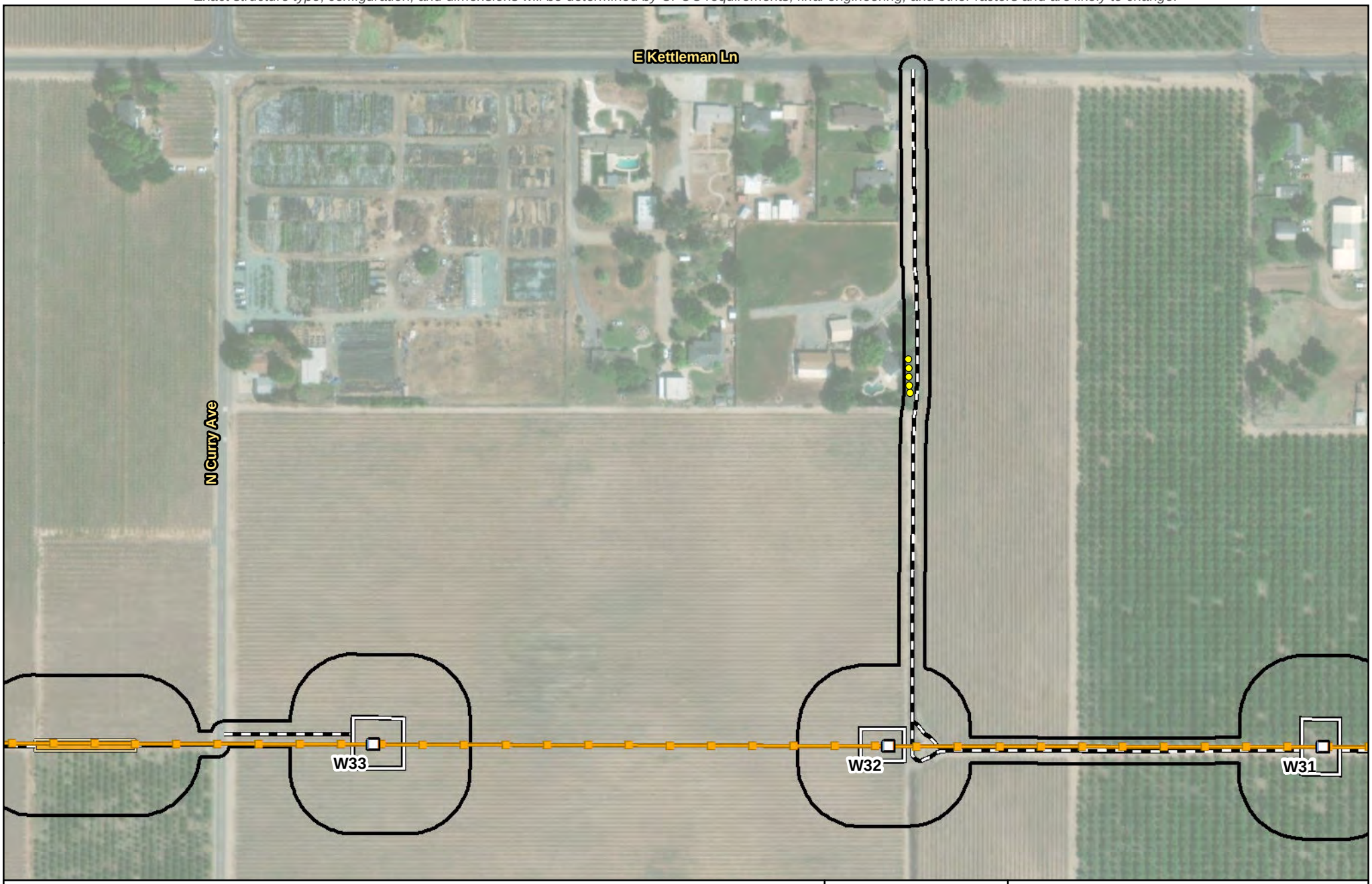

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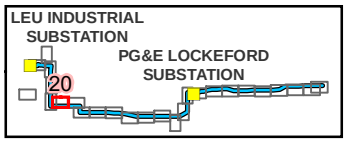

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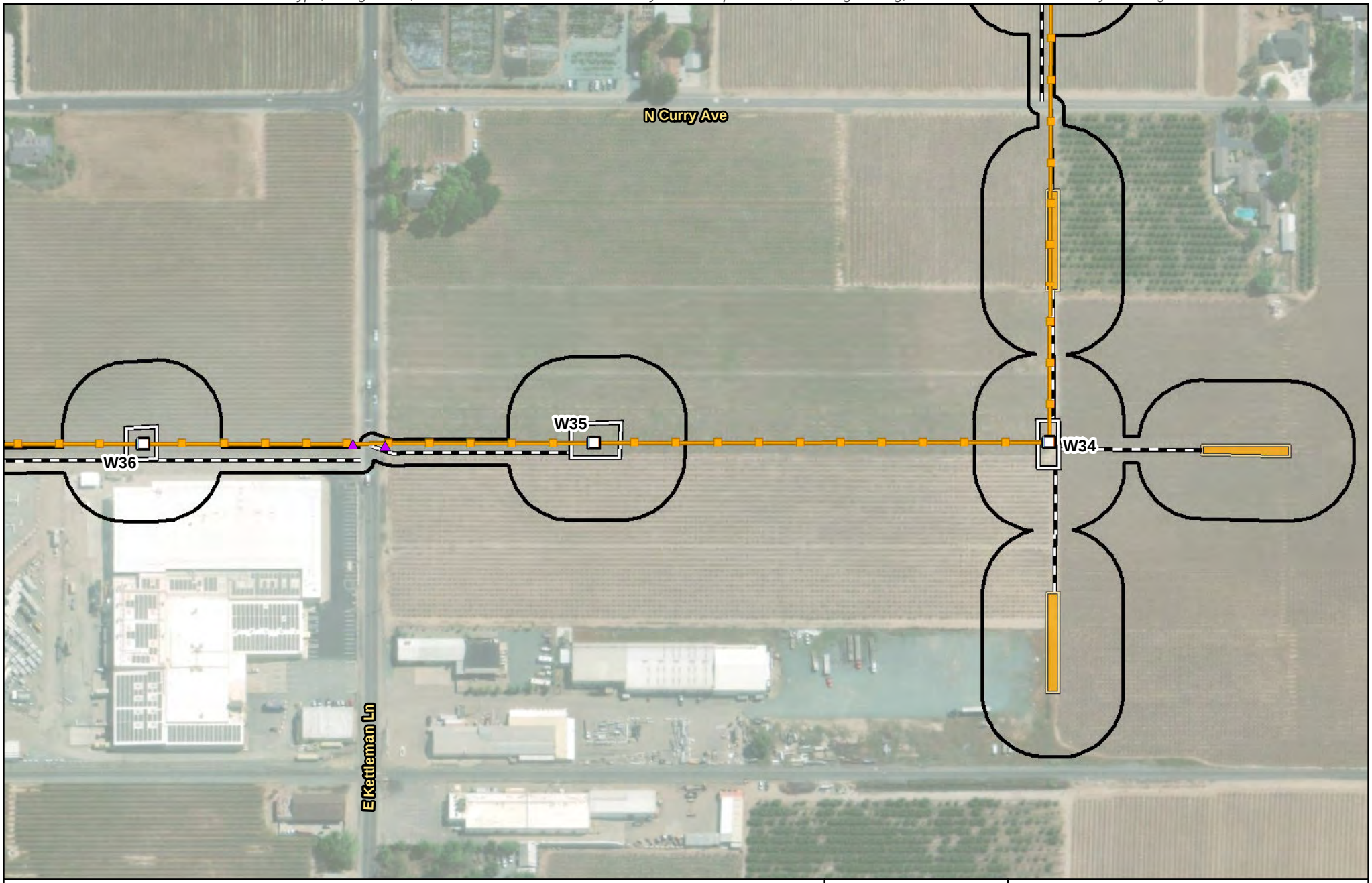

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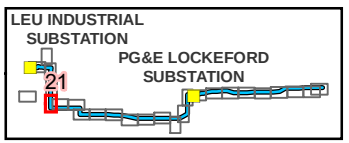

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FIGURE 2
Project Elements and Biological Resources Survey Area

Northern San Joaquin 230 kV Transmission Project

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Preliminary design and engineering for the physical, civil, and outdoor components.
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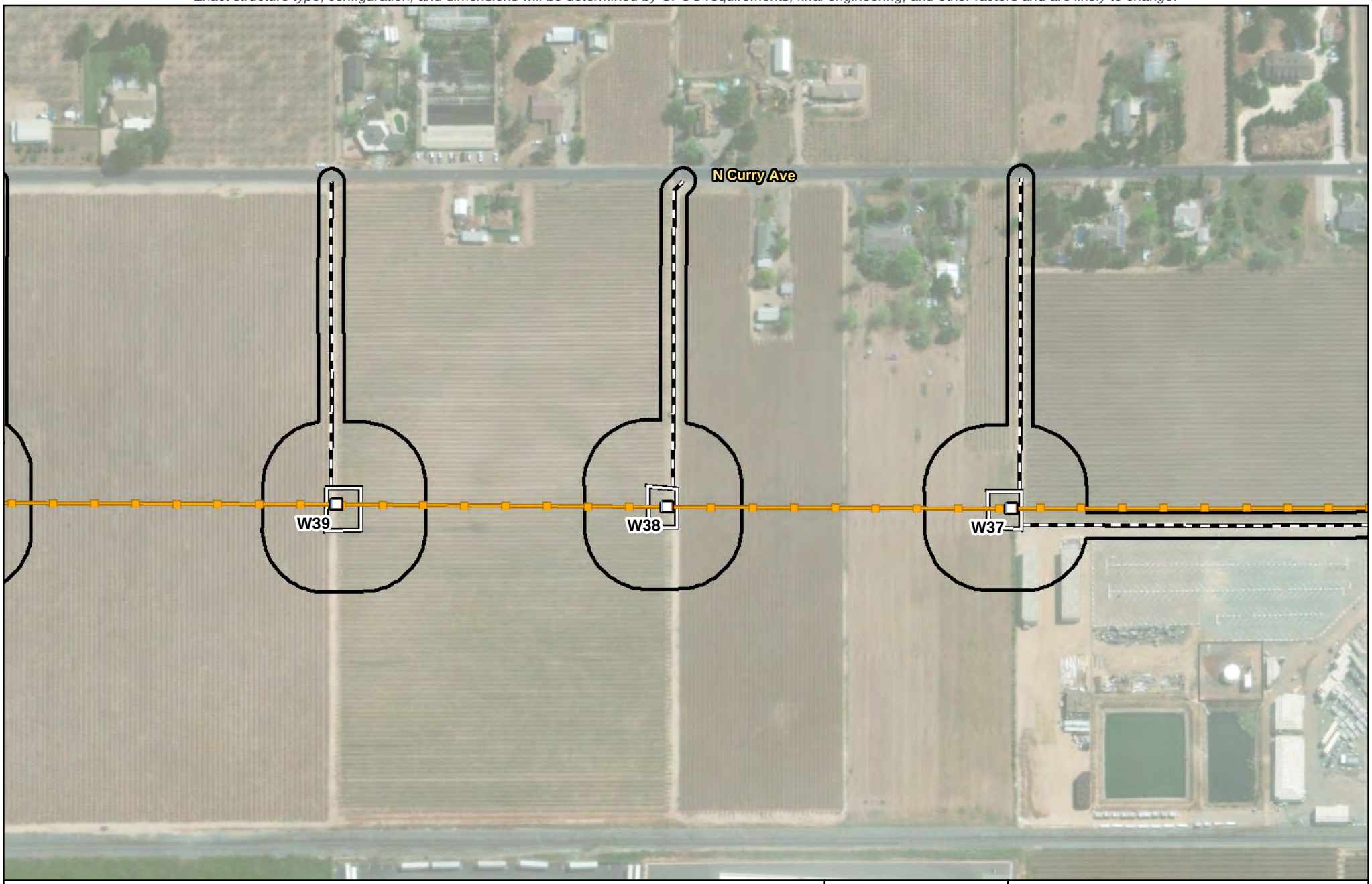
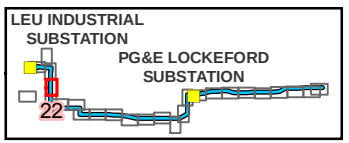


Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area



Source:
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FIGURE 2
Project Elements and Biological Resources Survey Area

Northern San Joaquin 230 kV Transmission Project

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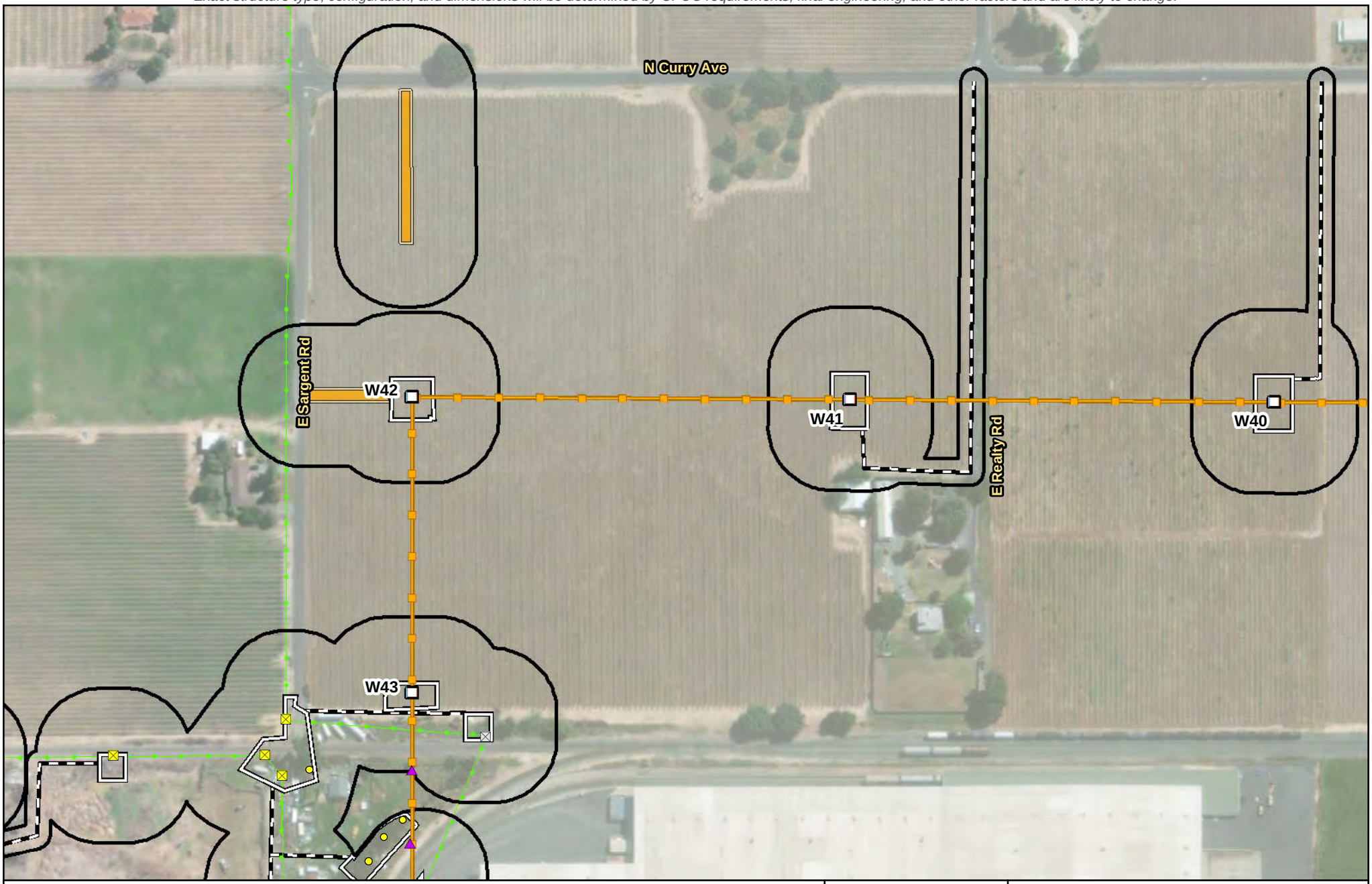

Legend

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- Proposed Fenceline
- Proposed Staging Area
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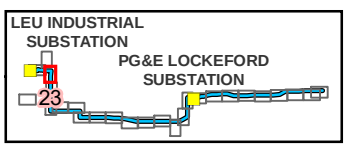

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FIGURE 2
Project Elements and Biological Resources Survey Area
Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

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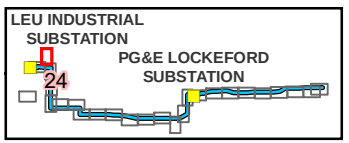

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FIGURE 2
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Northern San Joaquin 230 kV Transmission Project

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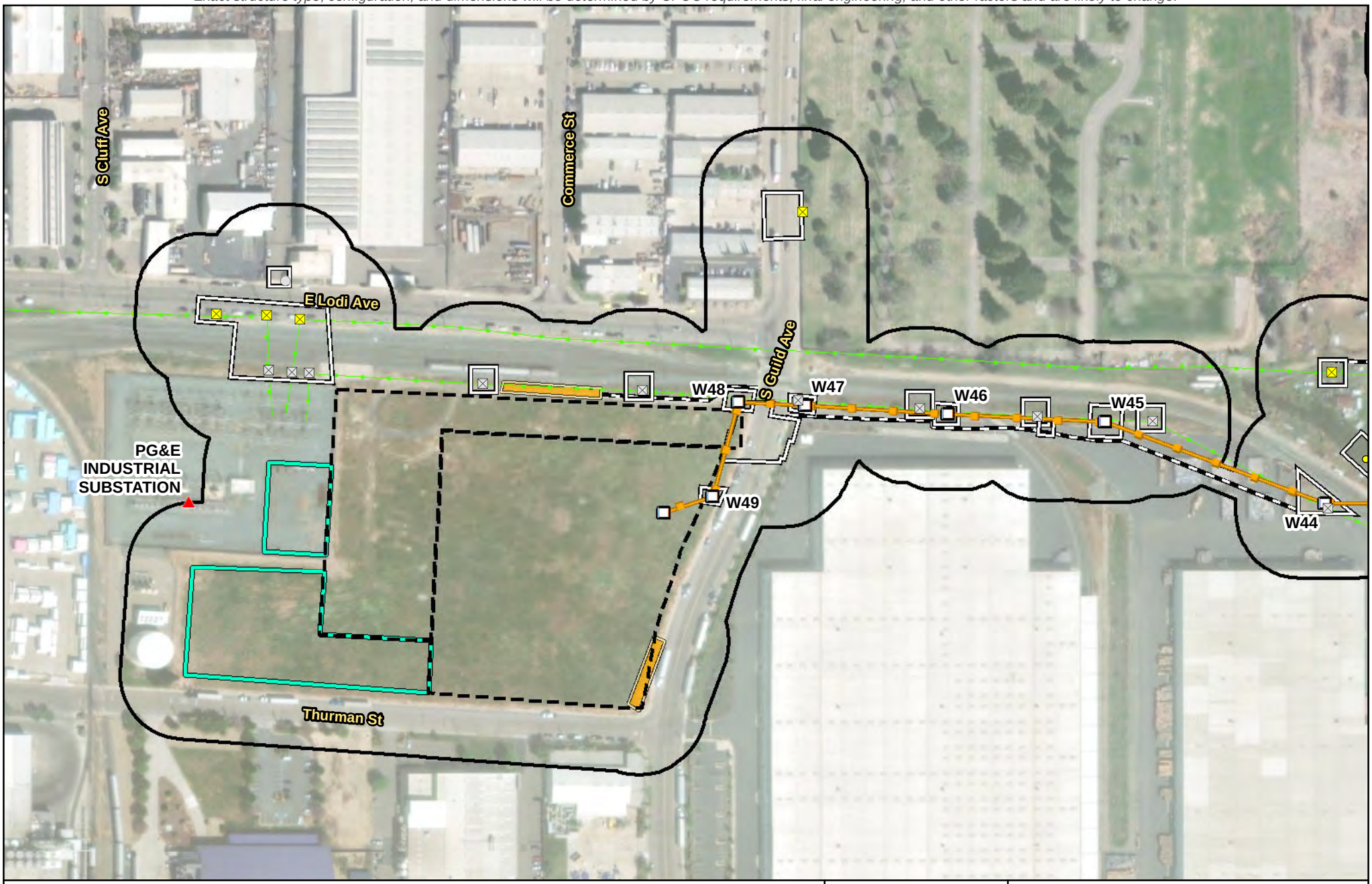

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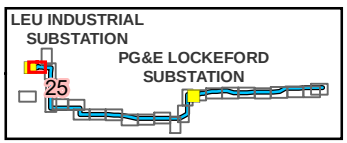

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Northern San Joaquin 230 kV Transmission Project

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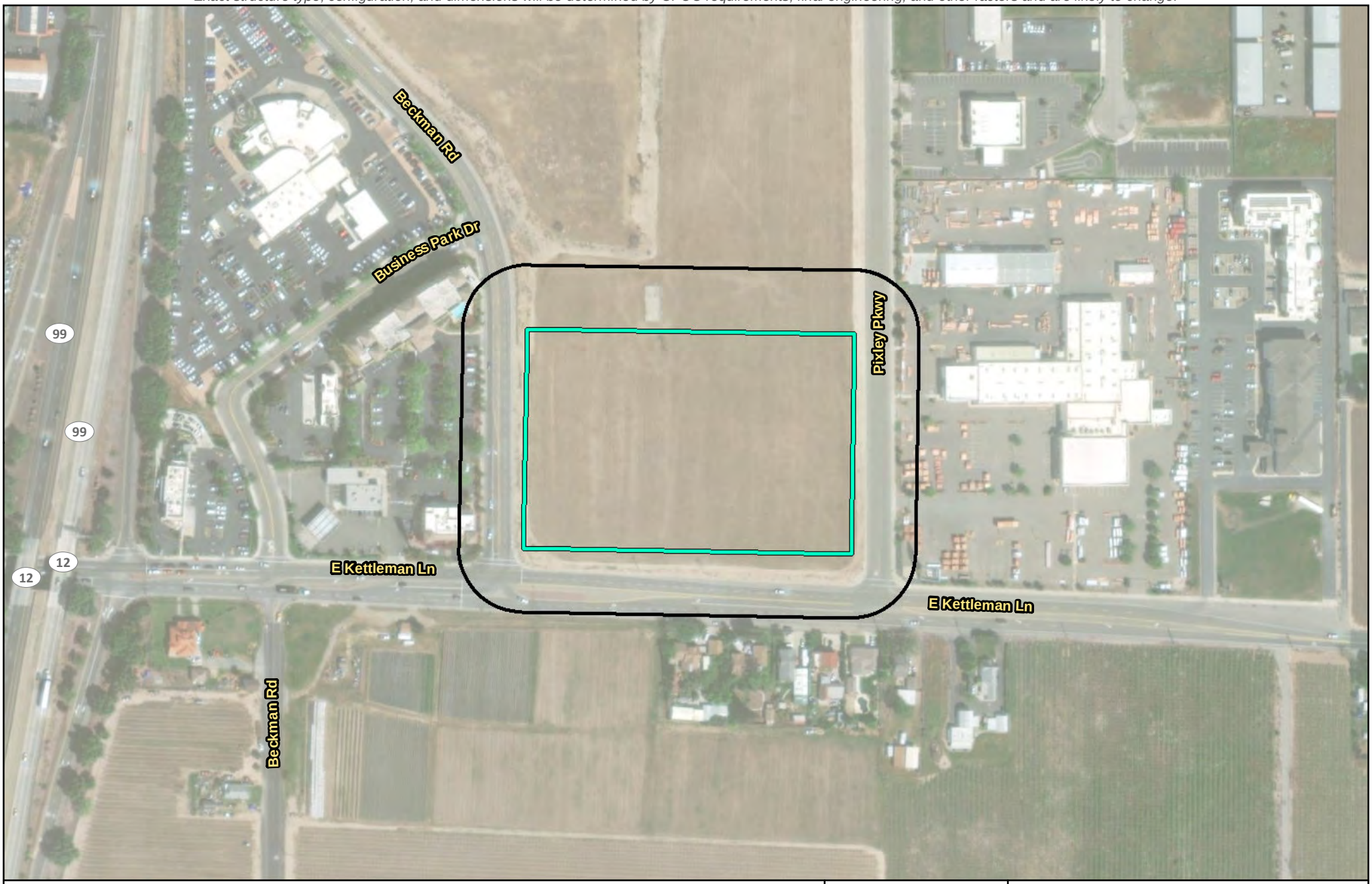

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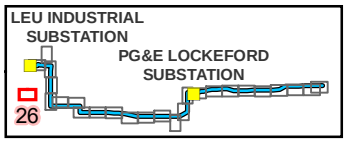

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FIGURE 2
Project Elements and Biological Resources Survey Area
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

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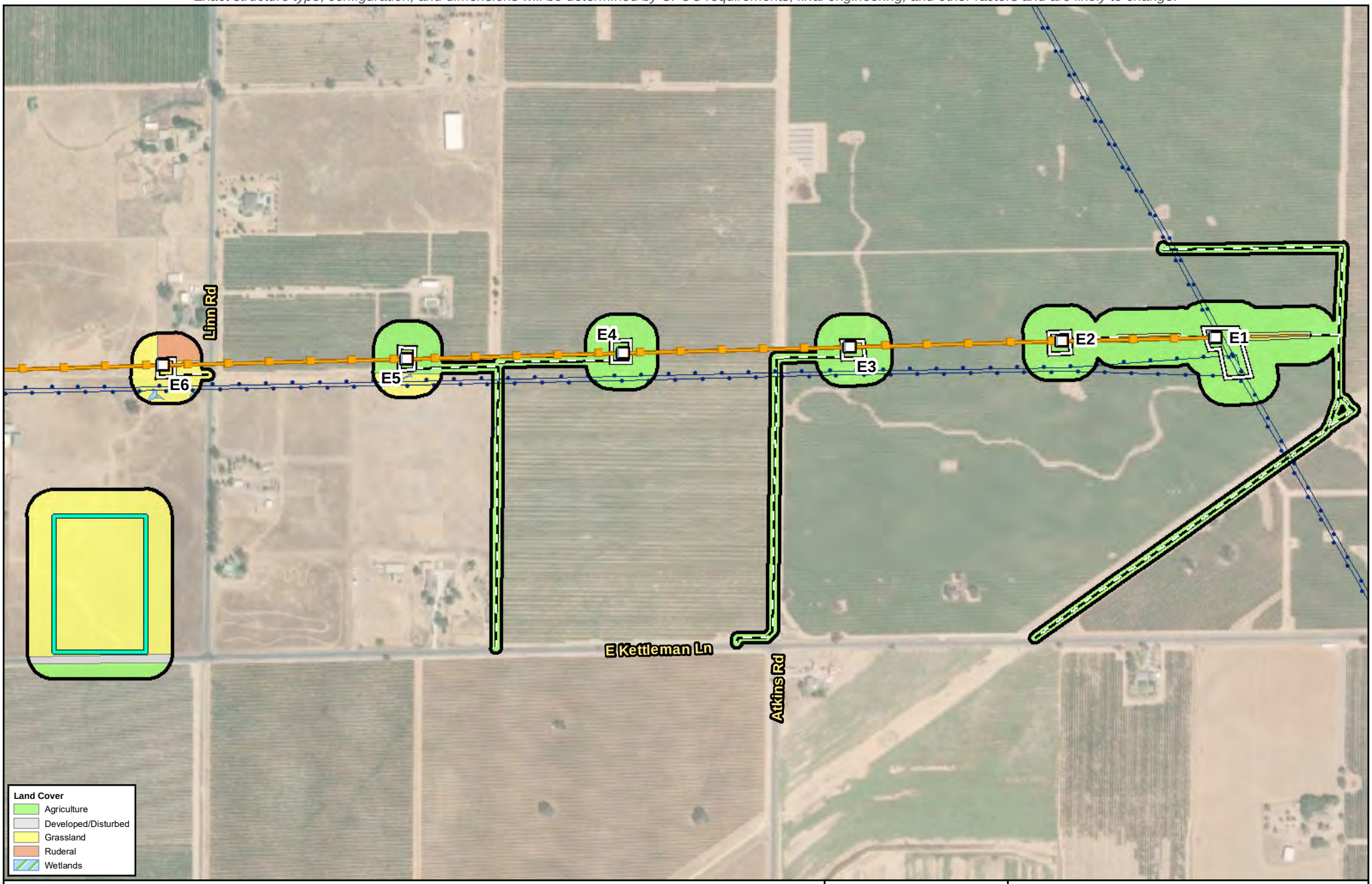

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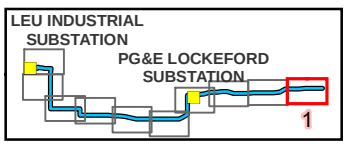

Source:
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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 1 of 10
Northern San Joaquin 230 kV Transmission Project

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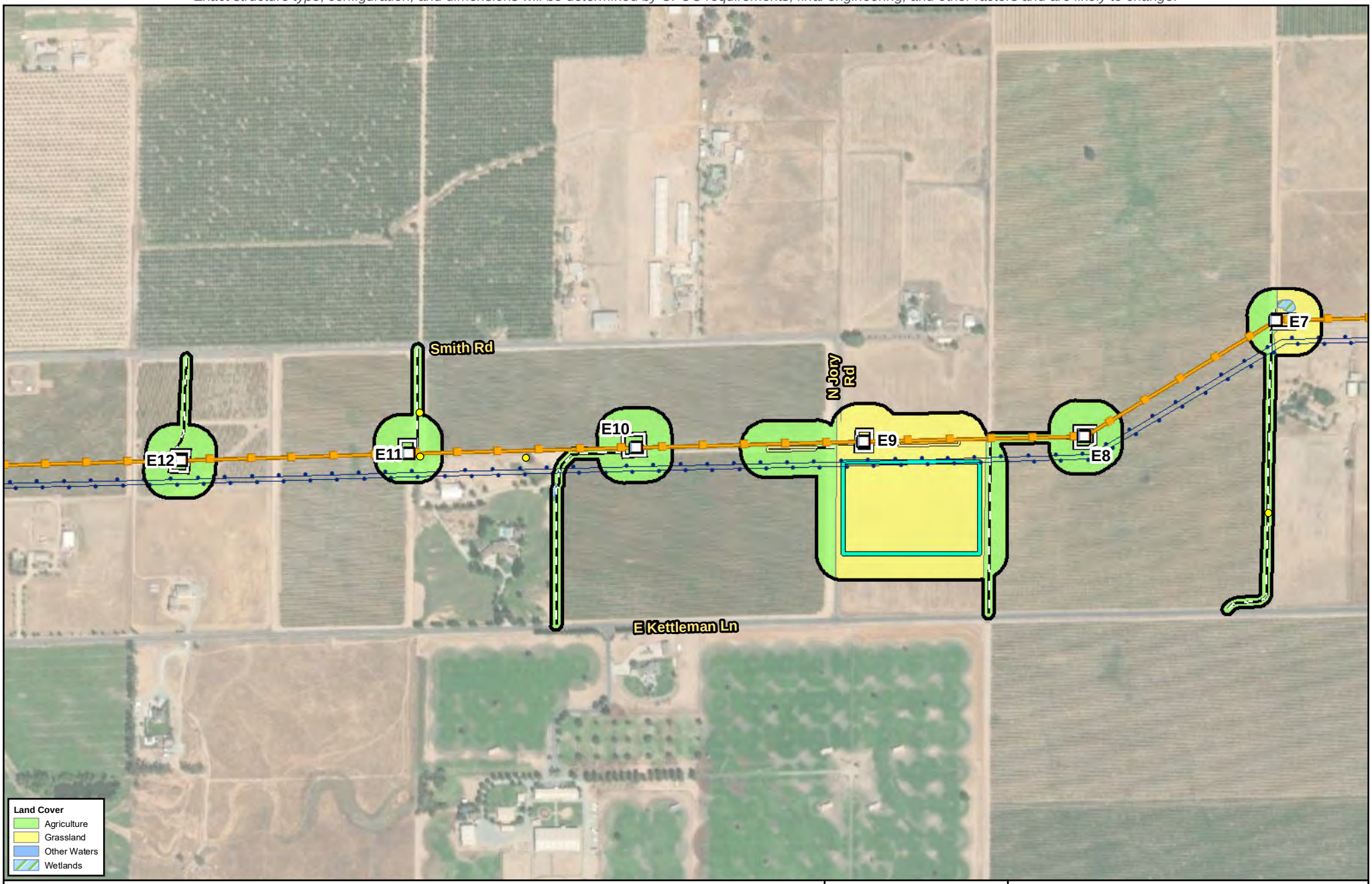

Legend

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- Proposed Staging Area
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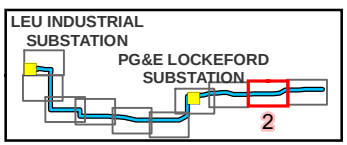

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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 2 of 10
Northern San Joaquin 230 kV Transmission Project

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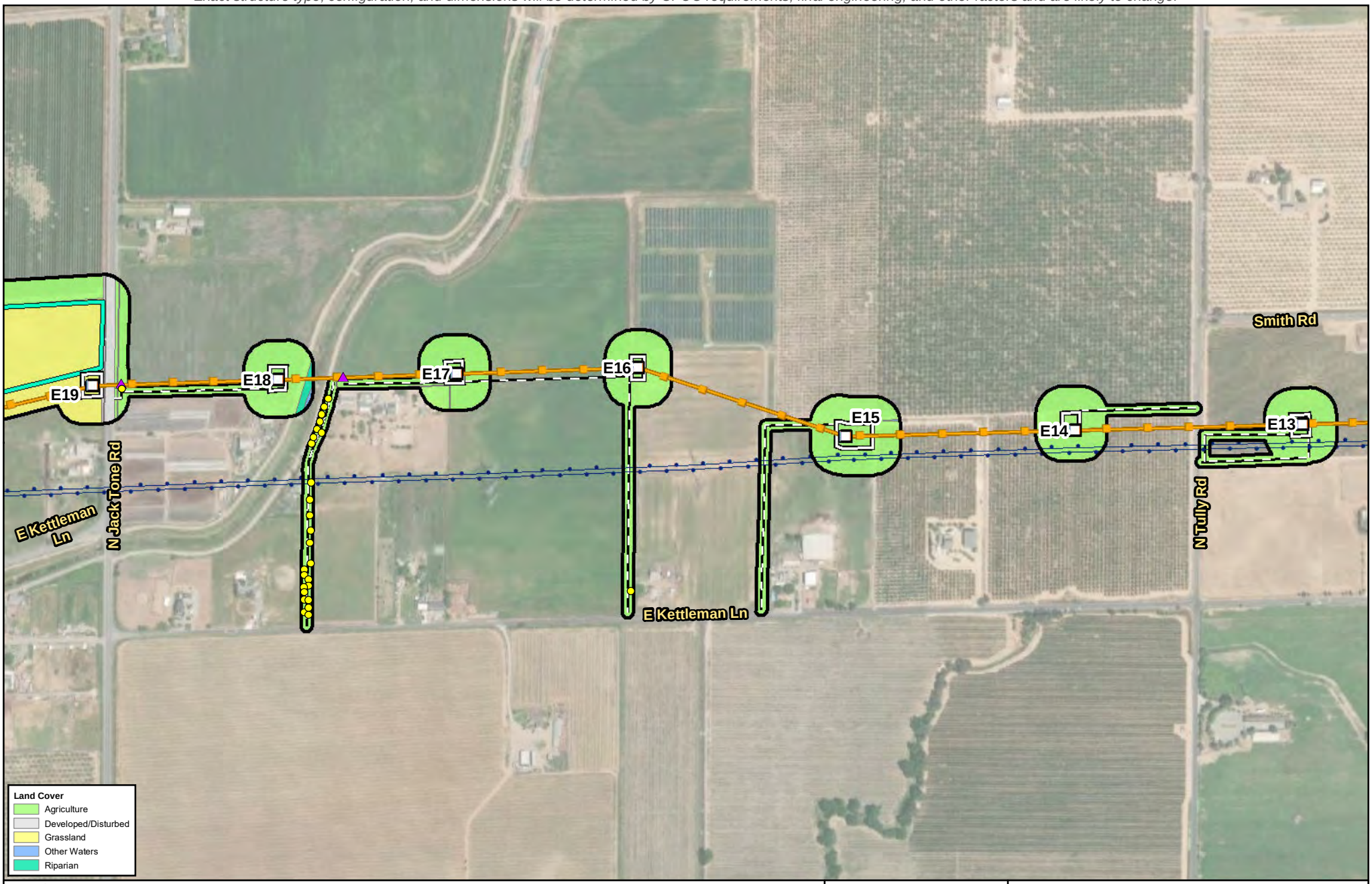

Legend

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- Proposed Pull Site
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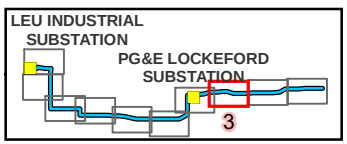

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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 3 of 10
Northern San Joaquin 230 kV Transmission Project

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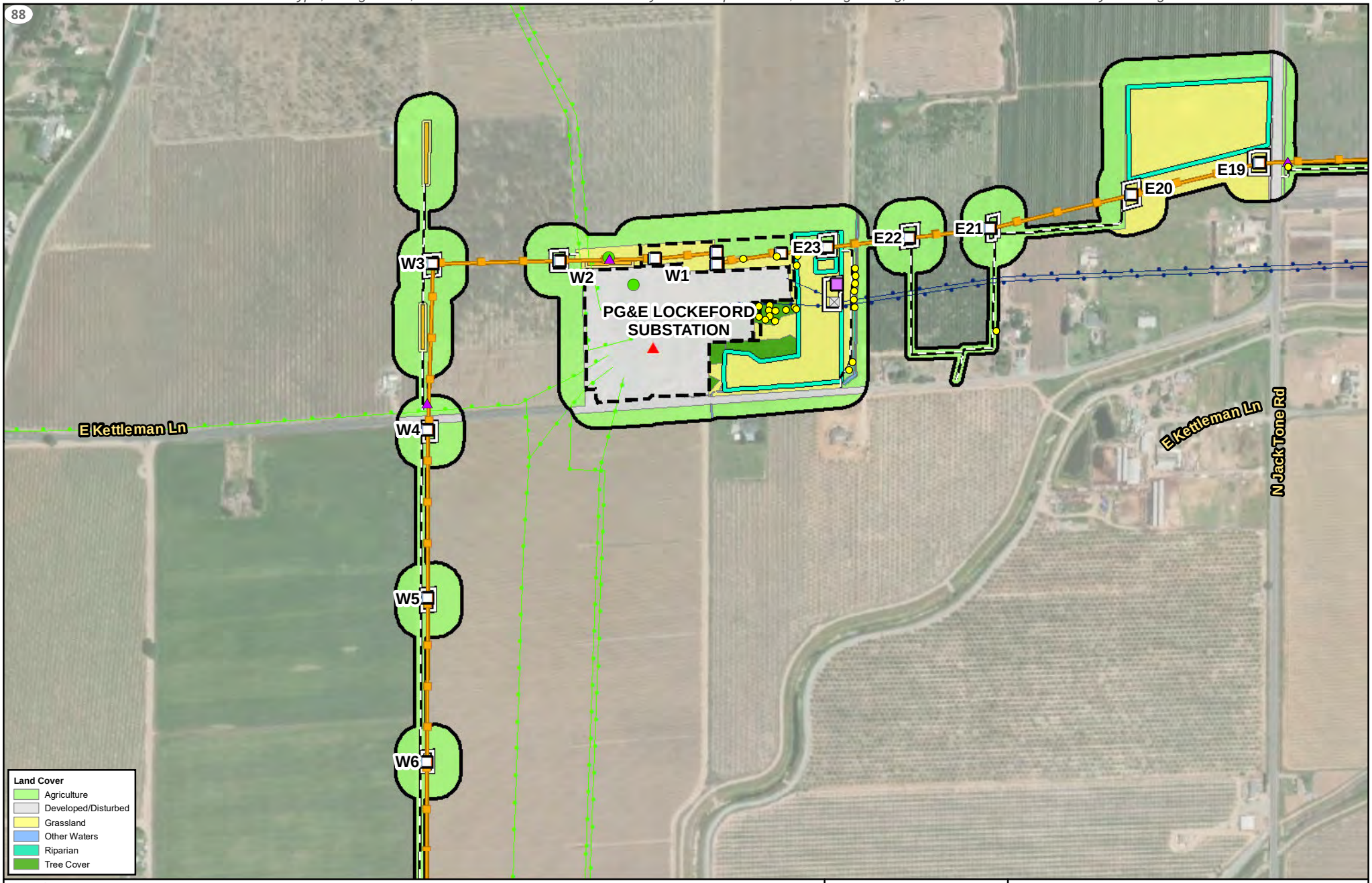

Legend

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- Substation
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- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

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- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Potential Tree Trimming or Removal
- Elderberry Shrubs

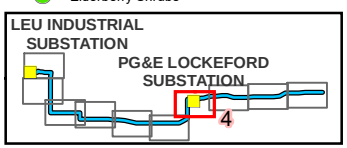

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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 4 of 10
Northern San Joaquin 230 kV Transmission Project

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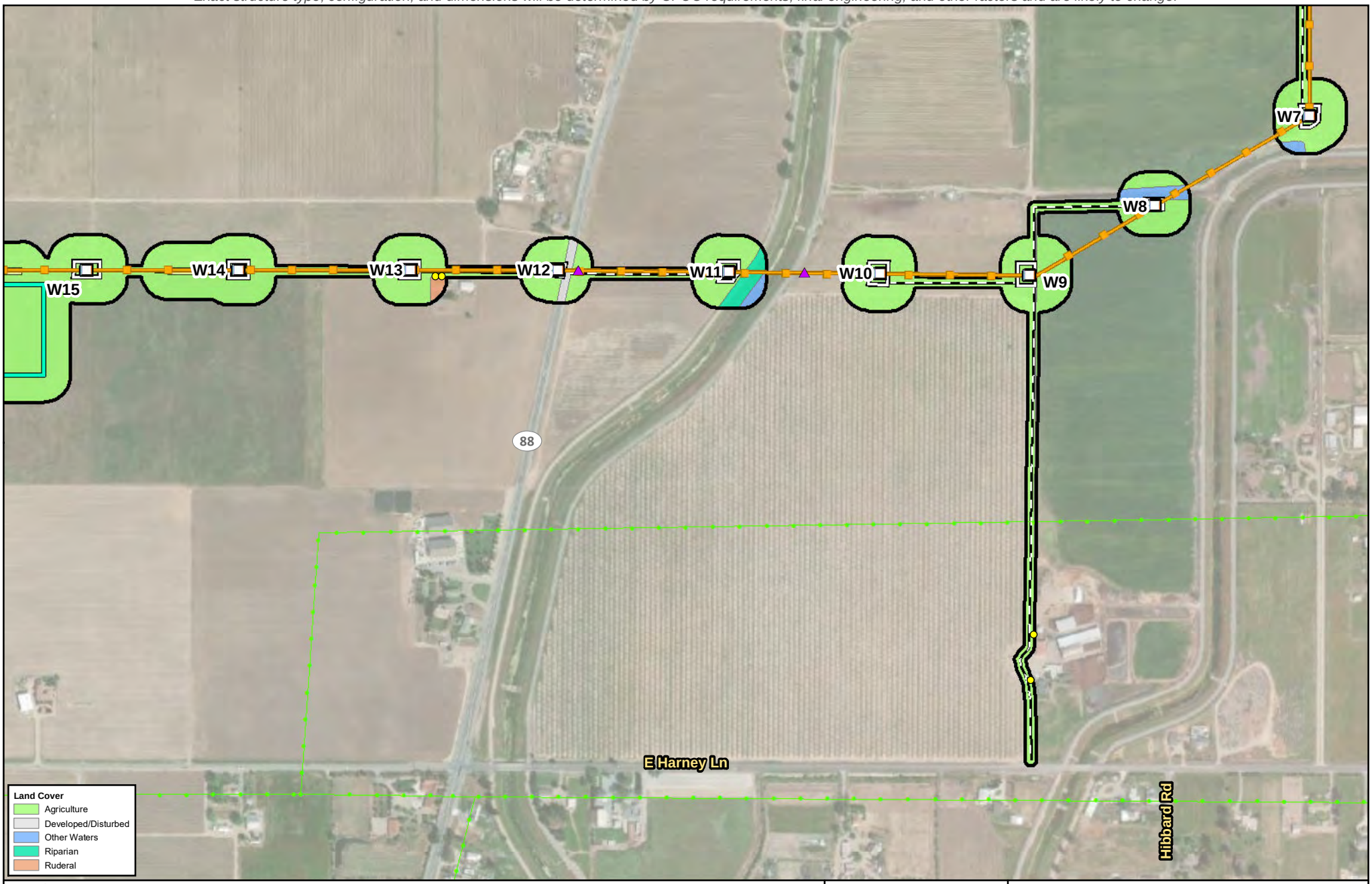

Legend

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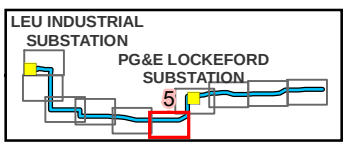

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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 5 of 10
Northern San Joaquin 230 kV Transmission Project

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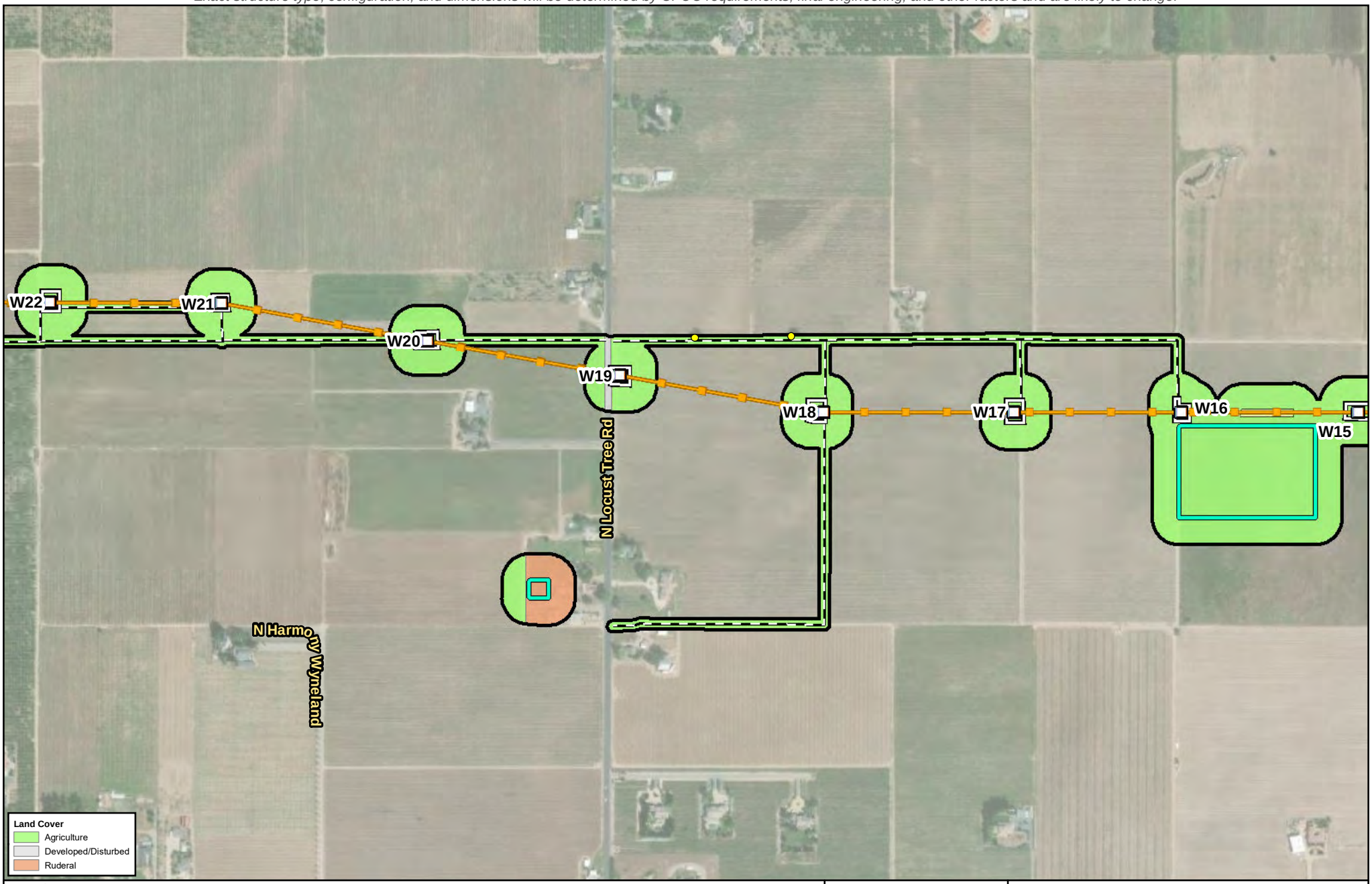

FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 6 of 10
Northern San Joaquin 230 kV Transmission Project

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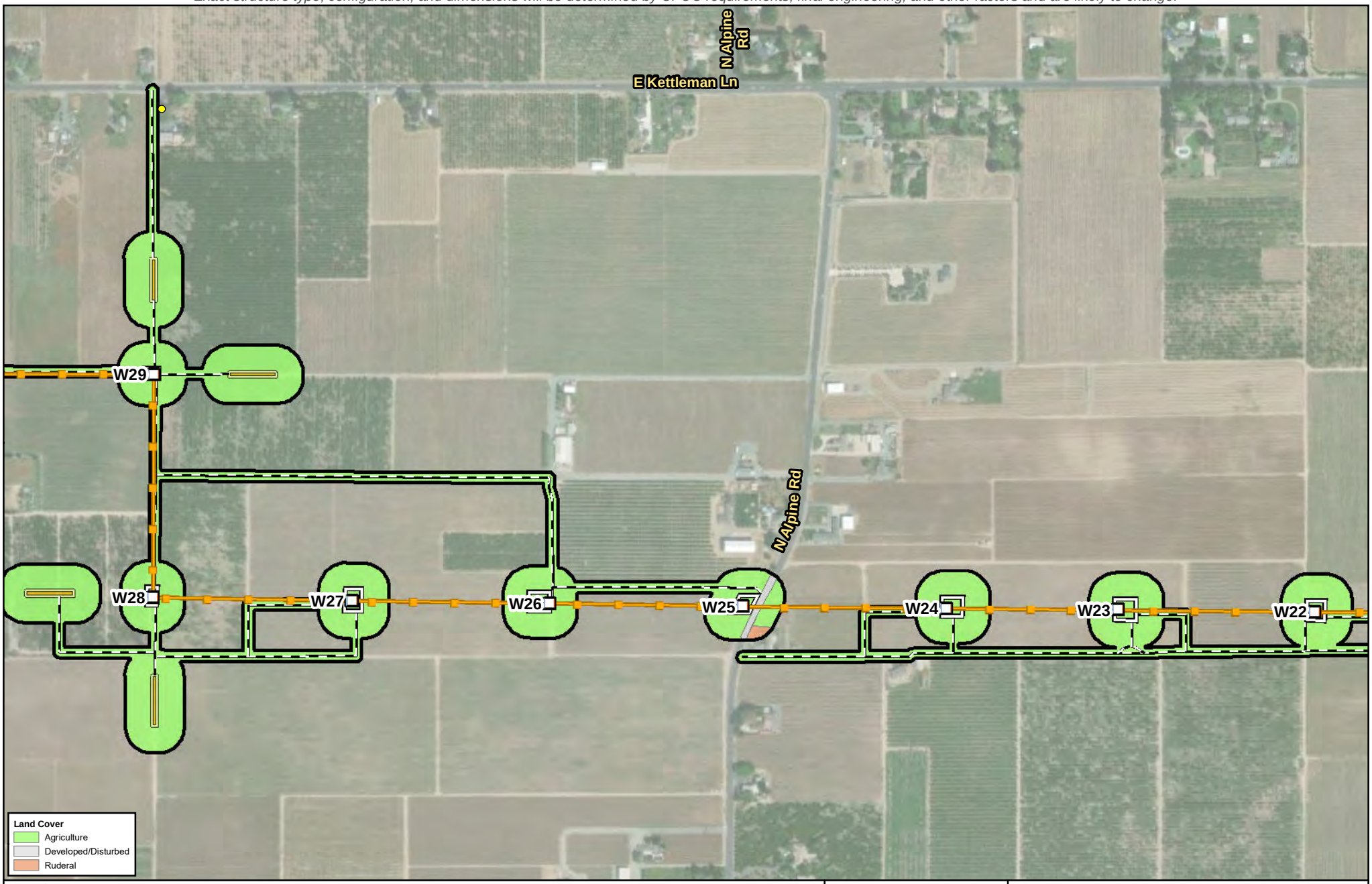

Legend

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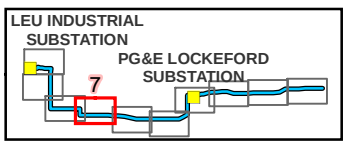

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FIGURE 3
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Page 7 of 10
Northern San Joaquin 230 kV Transmission Project

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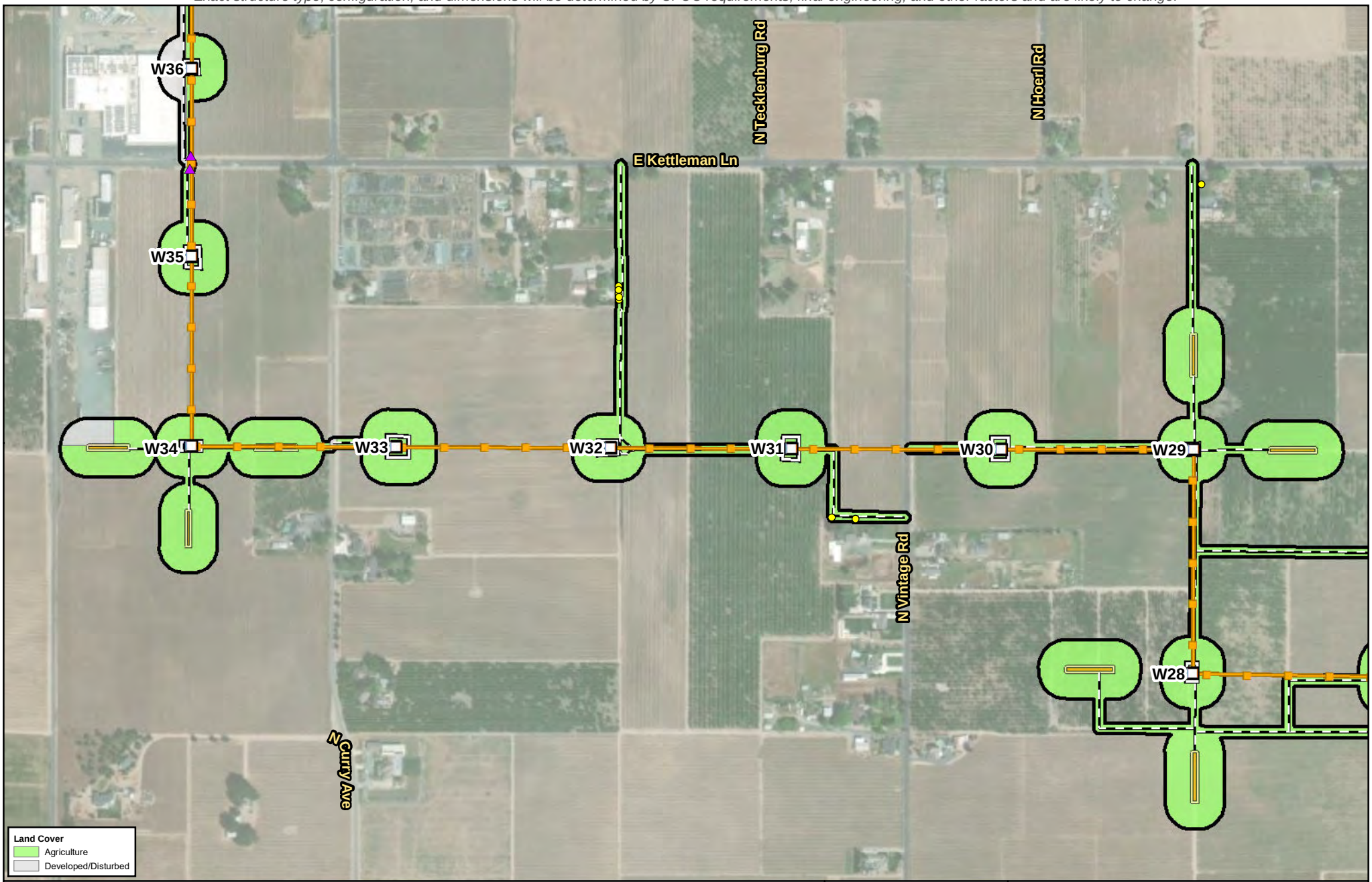

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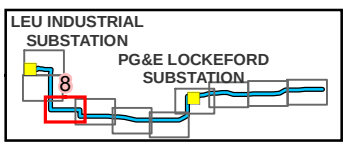

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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 8 of 10
Northern San Joaquin 230 kV Transmission Project

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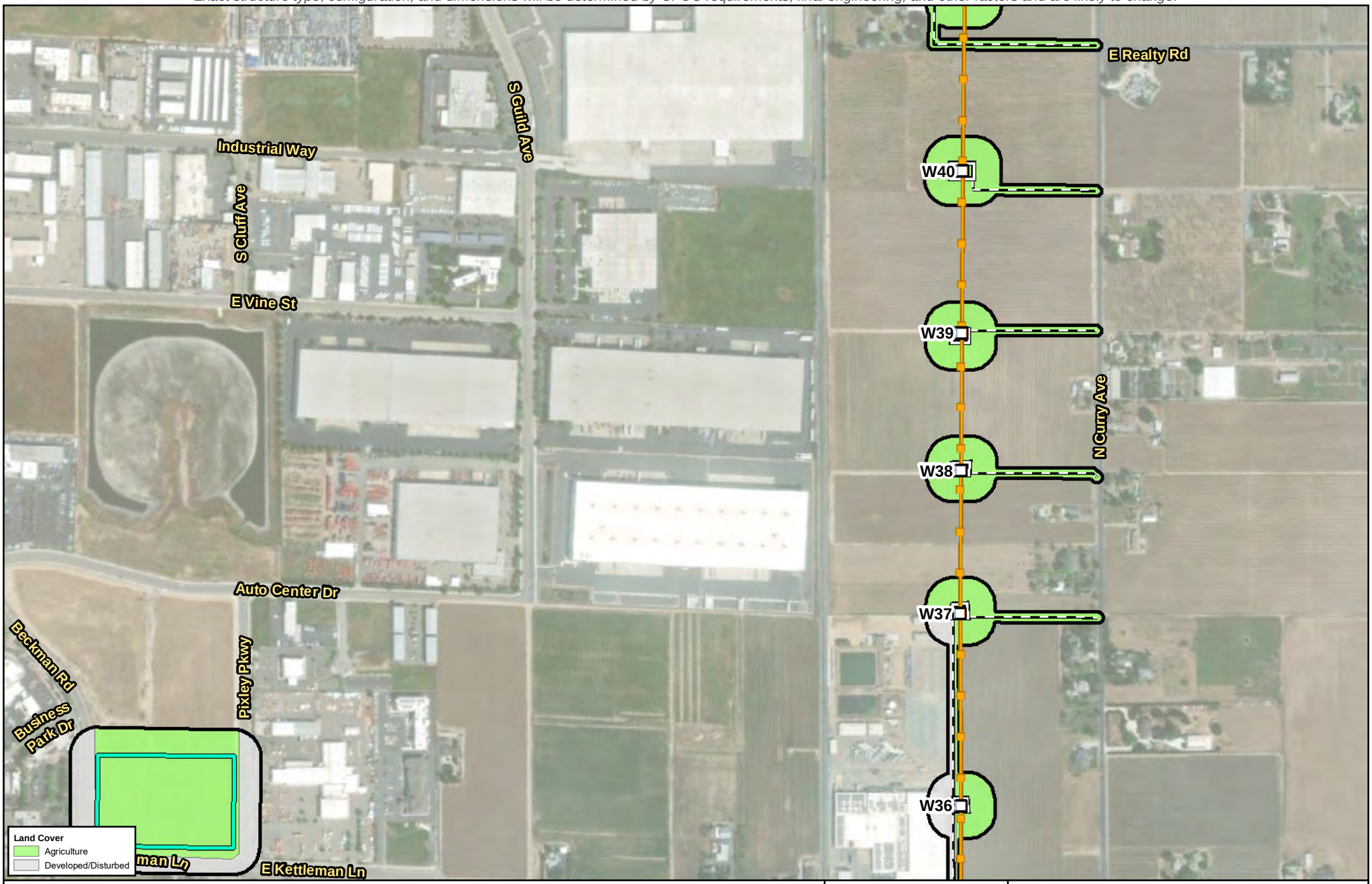

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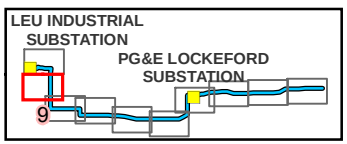

Source:
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FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 9 of 10
Northern San Joaquin 230 kV Transmission Project

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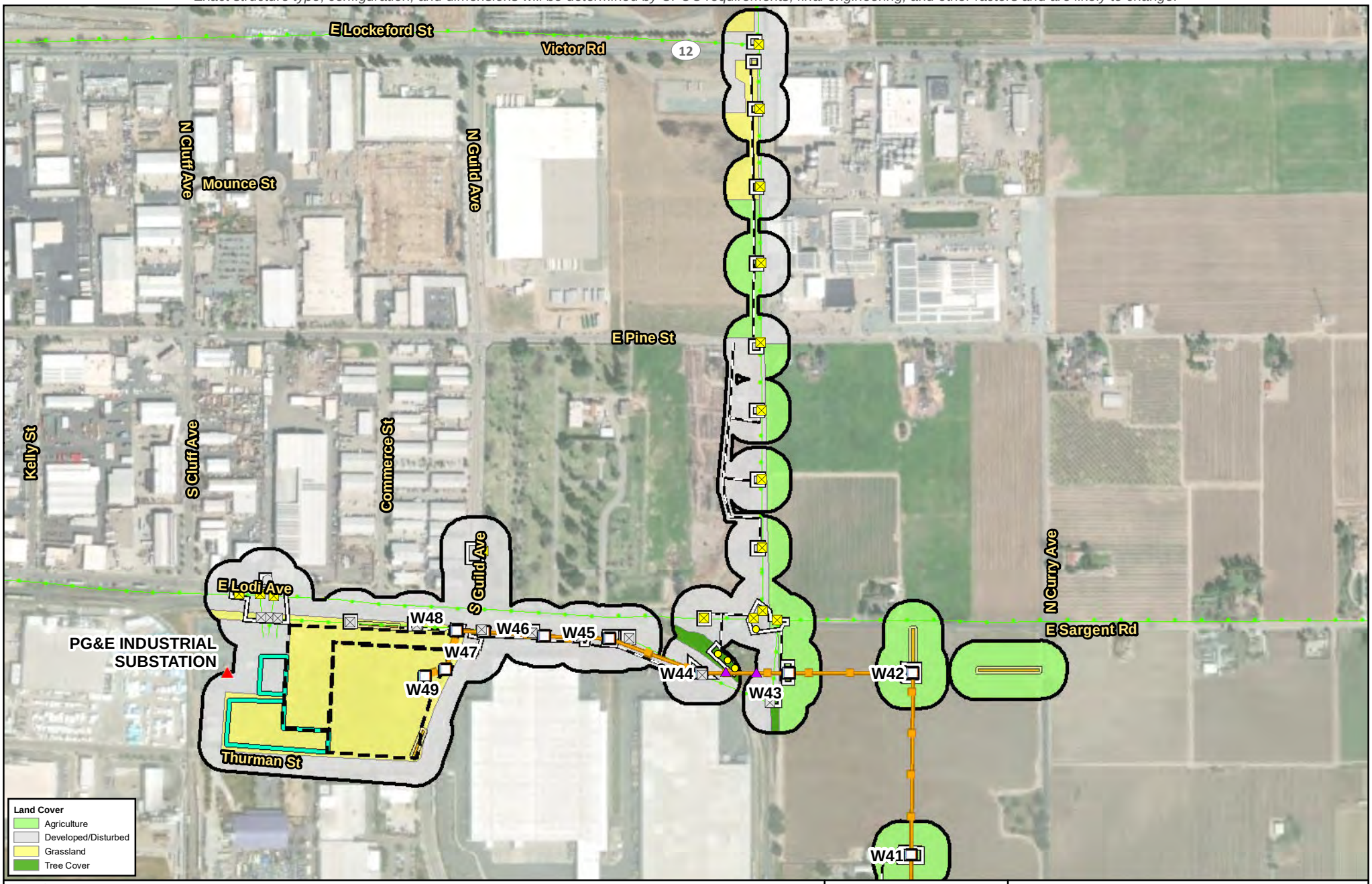
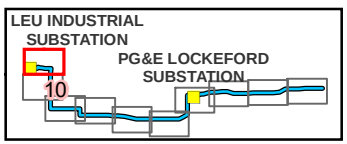


Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Potential Tree Trimming or Removal



Source:
1) Esri World Imagery

0 200 Feet

N

Scale: 1:7,200

FIGURE 3
Land Cover within the Biological Resources Survey Area
Page 10 of 10
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_3_230818.mxd kgrant1 8/21/2023

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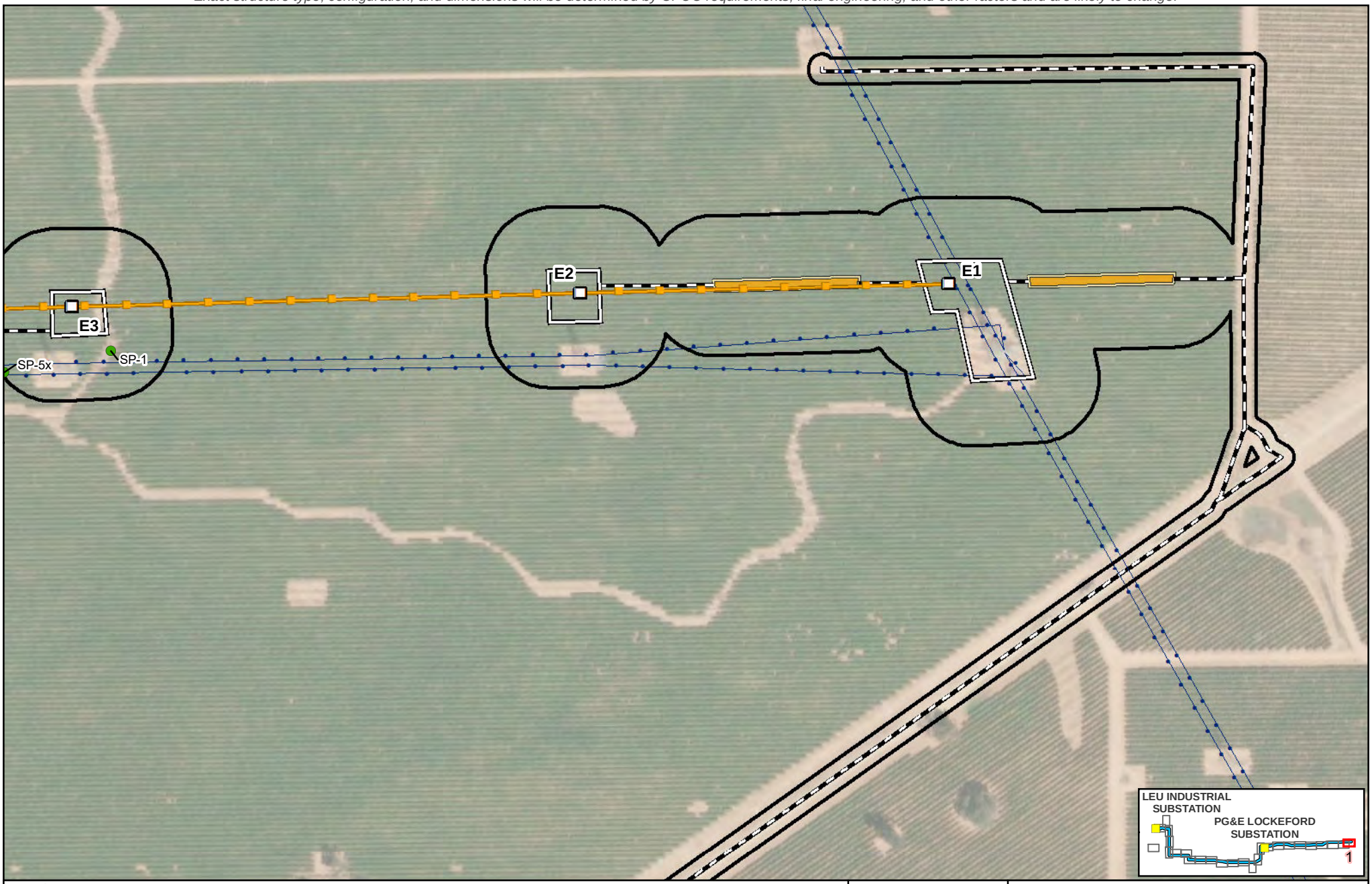

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 1 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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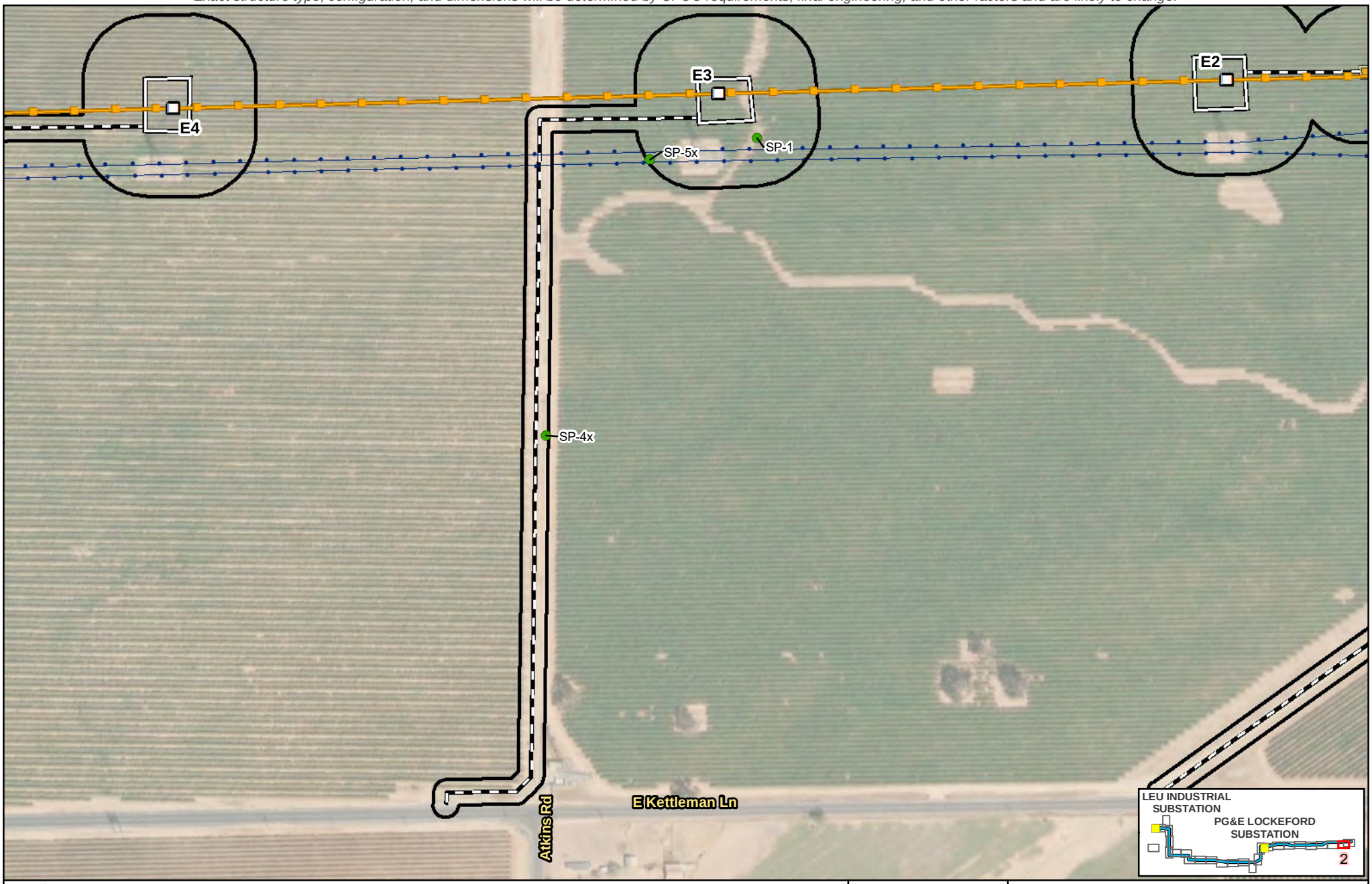

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 2 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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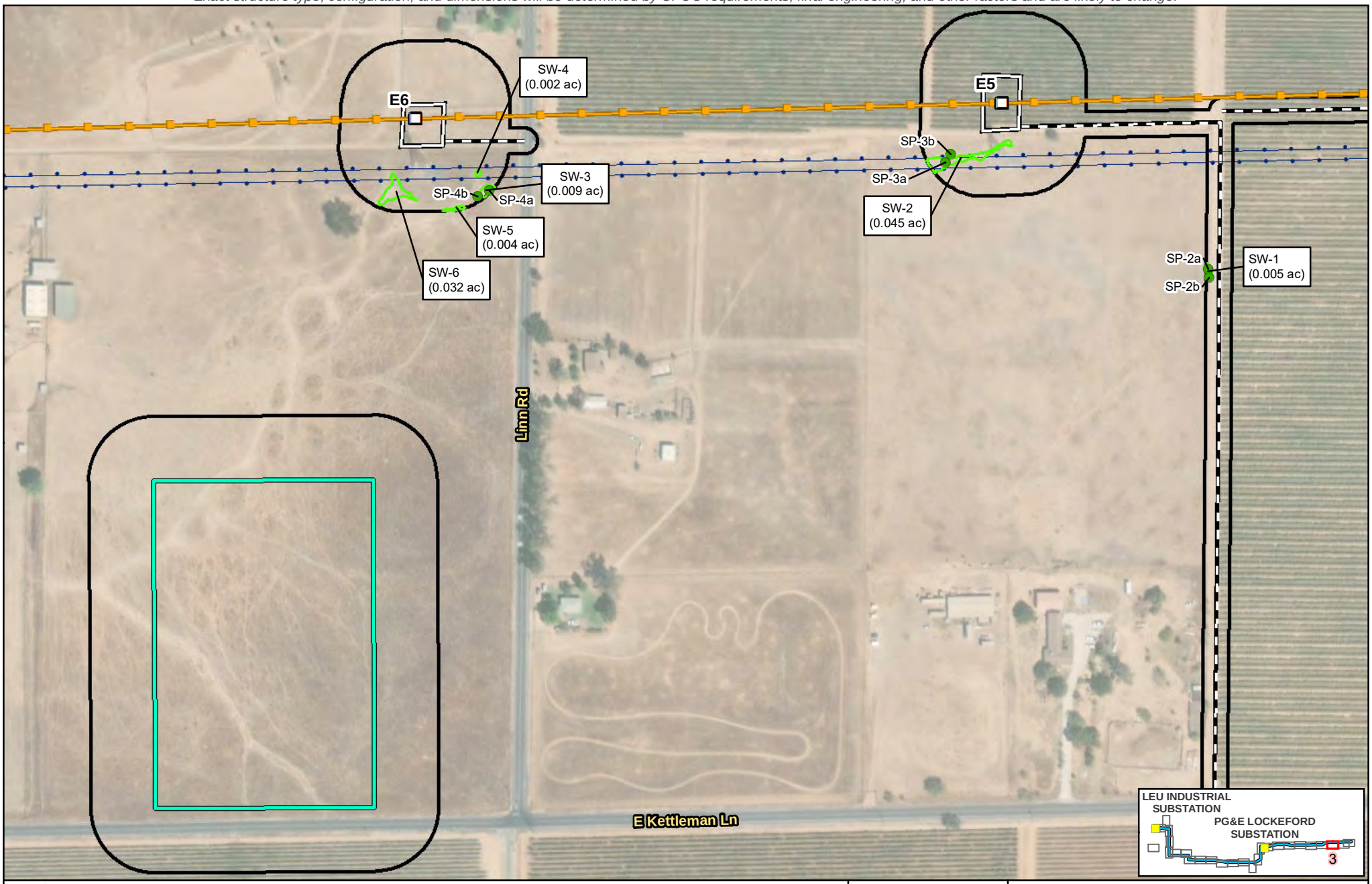

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale:
1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 3 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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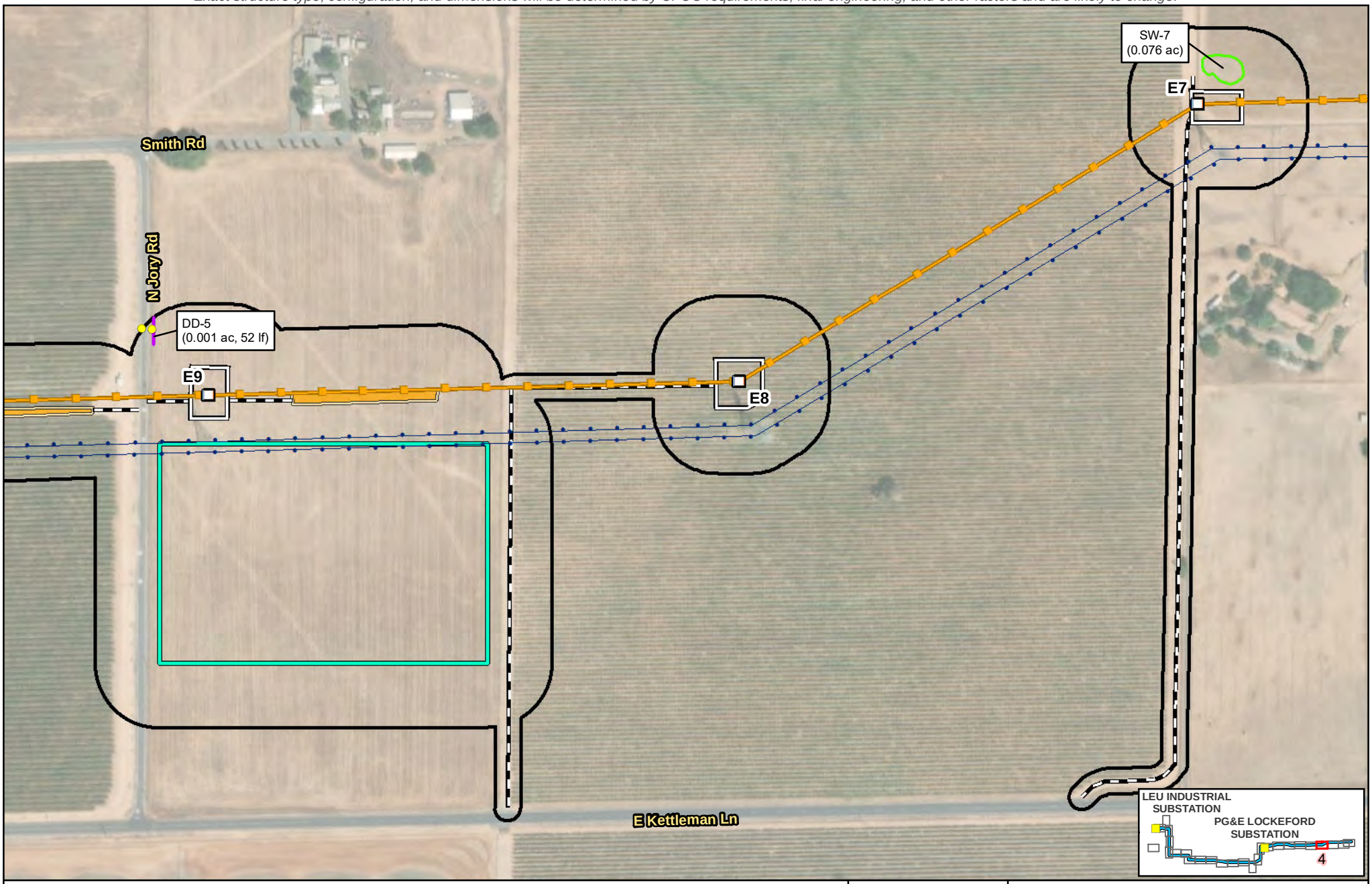

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 4 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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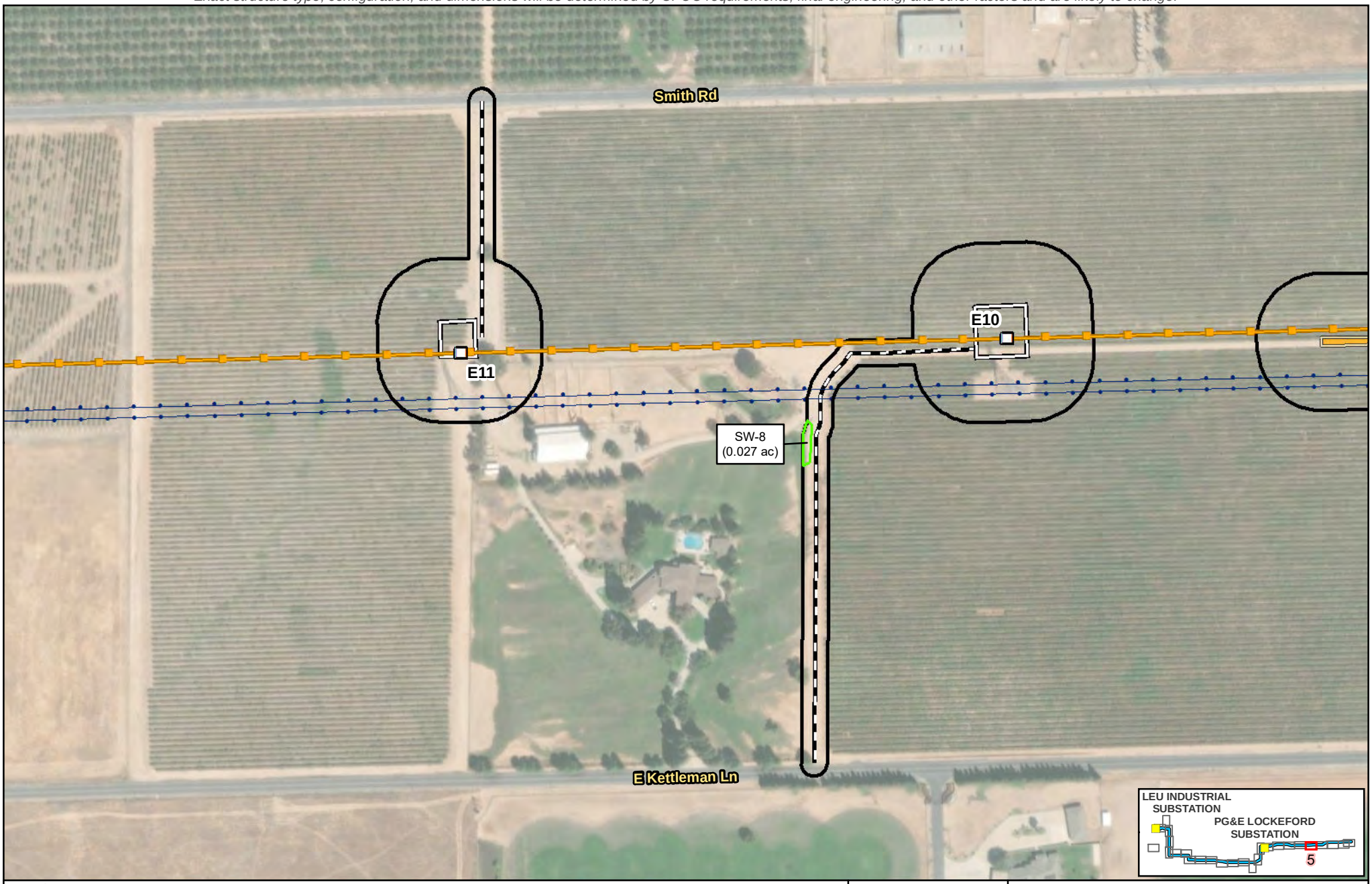

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Seasonal Wetland (SW) (0.2 ac)

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 5 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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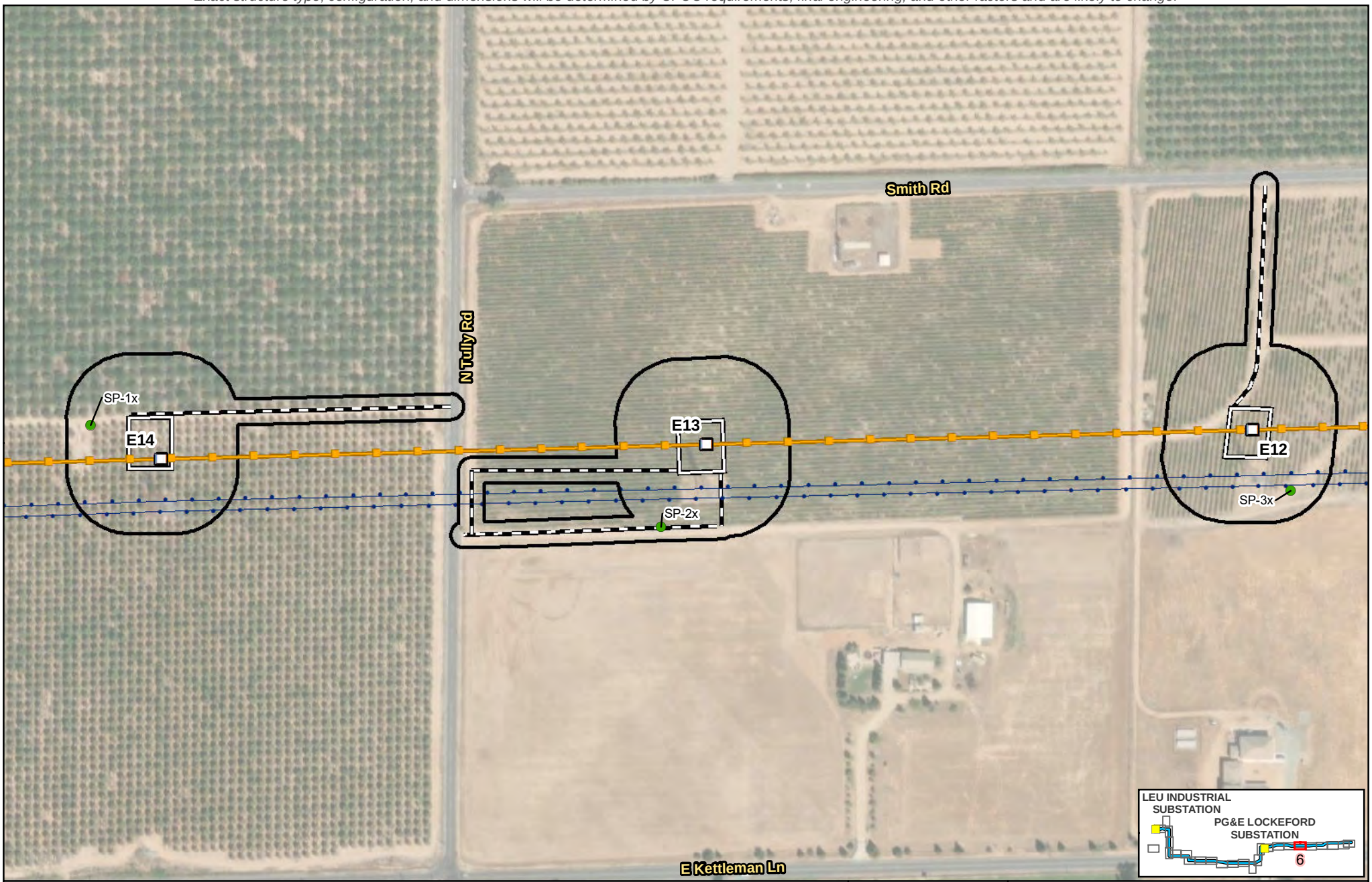

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Wetland Sample Point

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 6 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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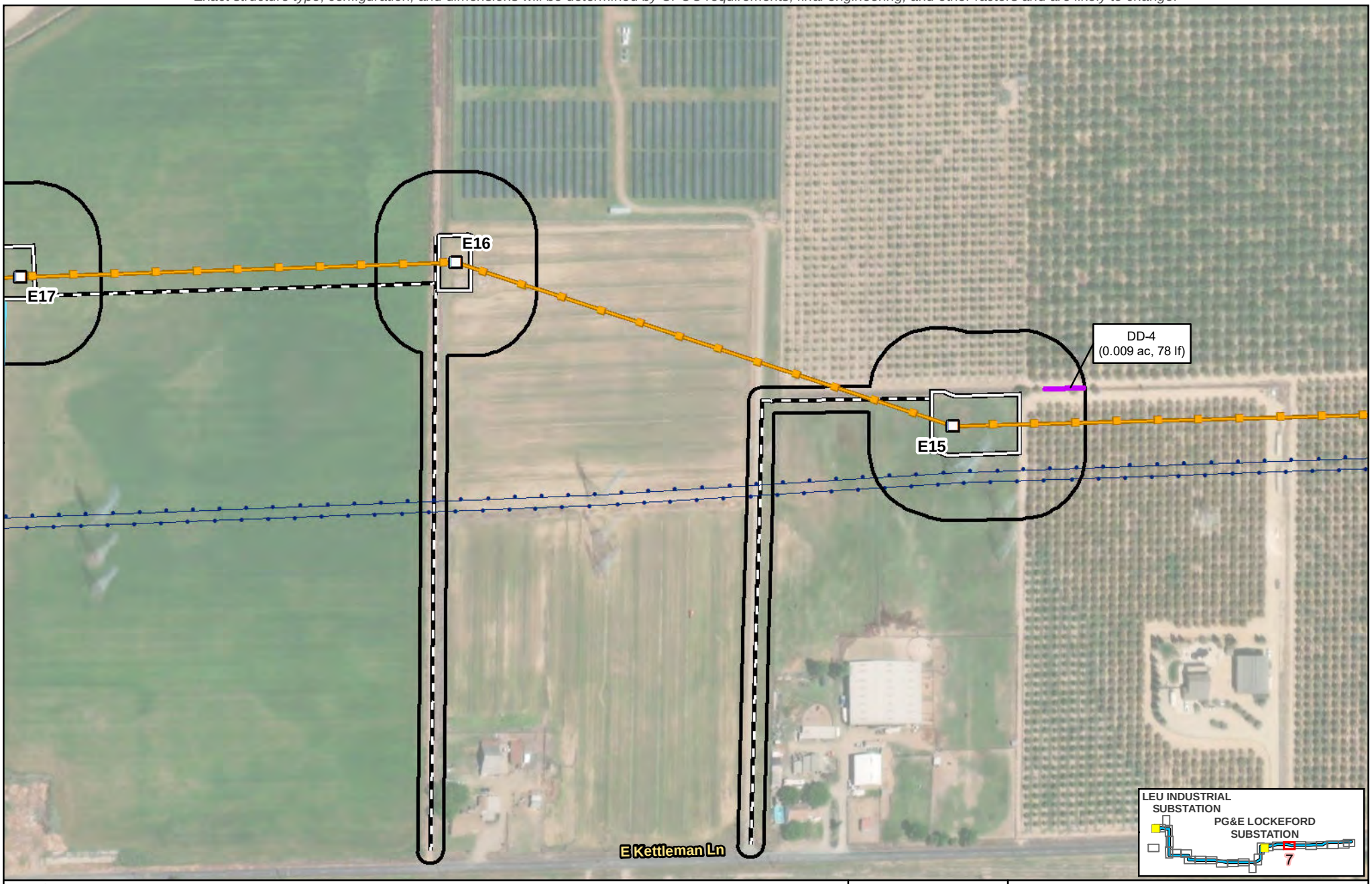

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
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- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 7 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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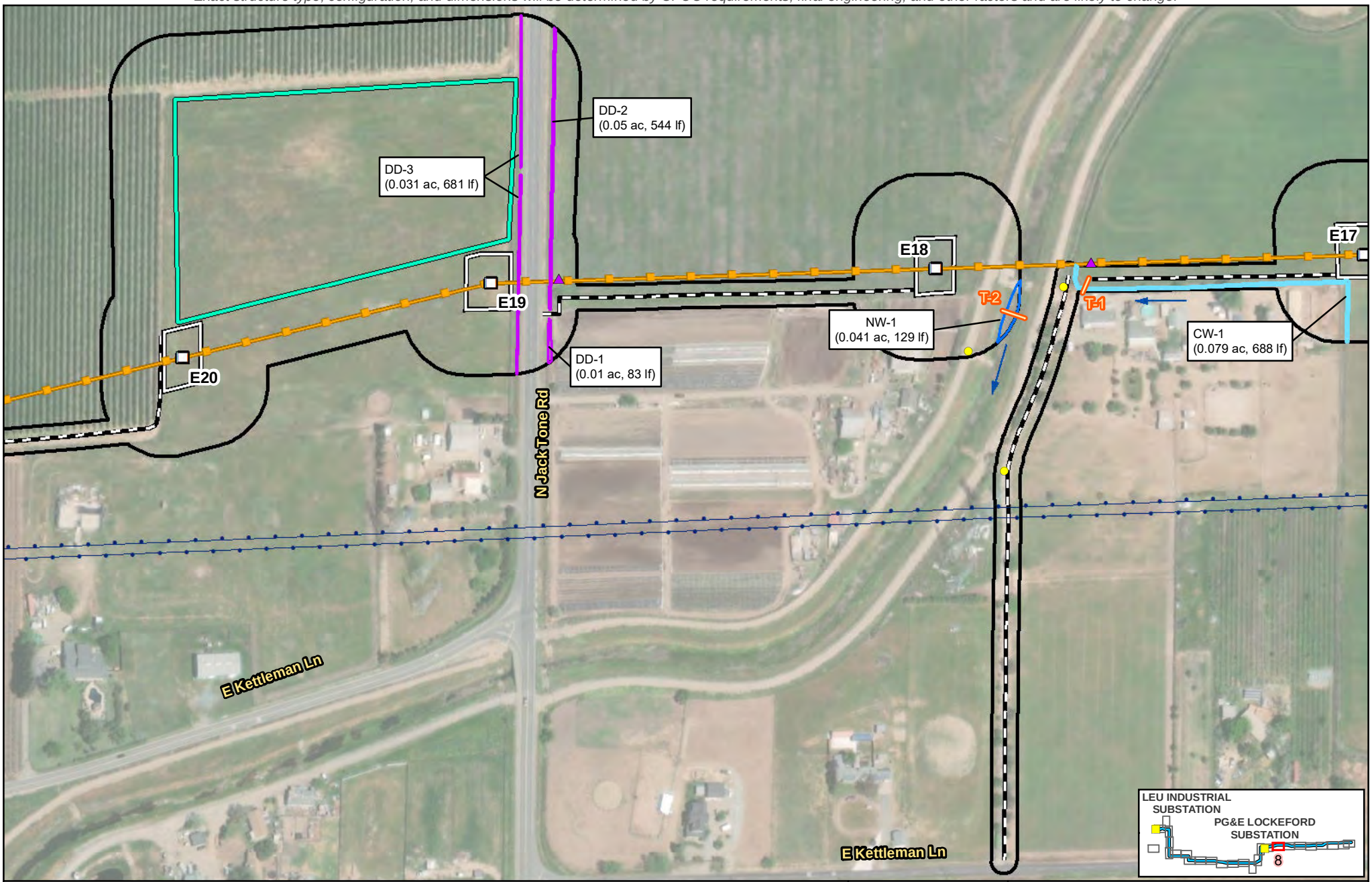

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Structure: Modify or Replace
- Structure: Remove
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- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Natural Watercourse (NW) (0.247 ac, 359 lf)
- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Drainage Ditch (DD) (0.127 ac, 1,805 lf)
- Culvert
- Flow Direction
- Transect

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 8 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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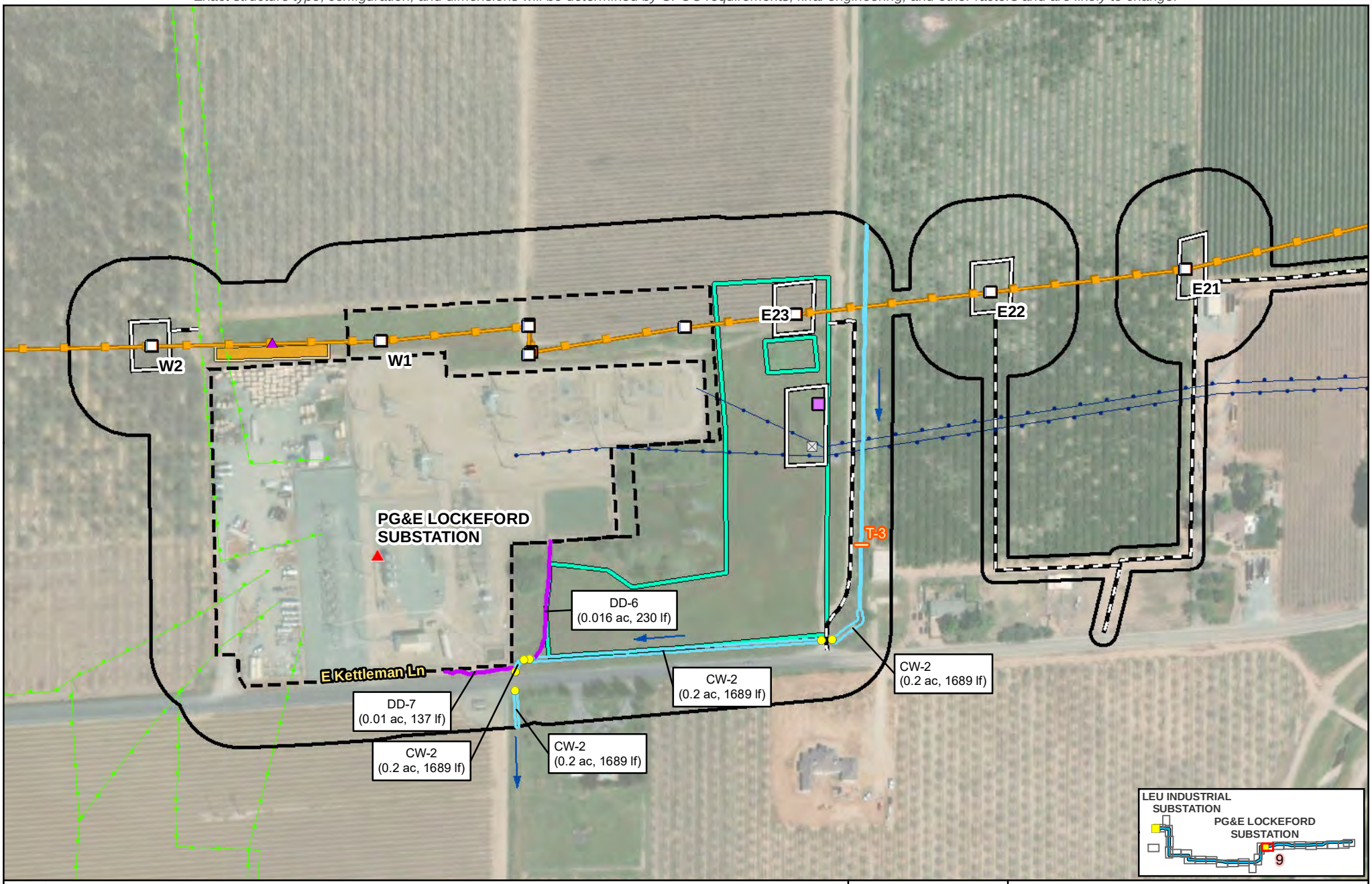

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Structure: Modify or Replace
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- Culvert
- Flow Direction
- Transect

Source: 1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area

Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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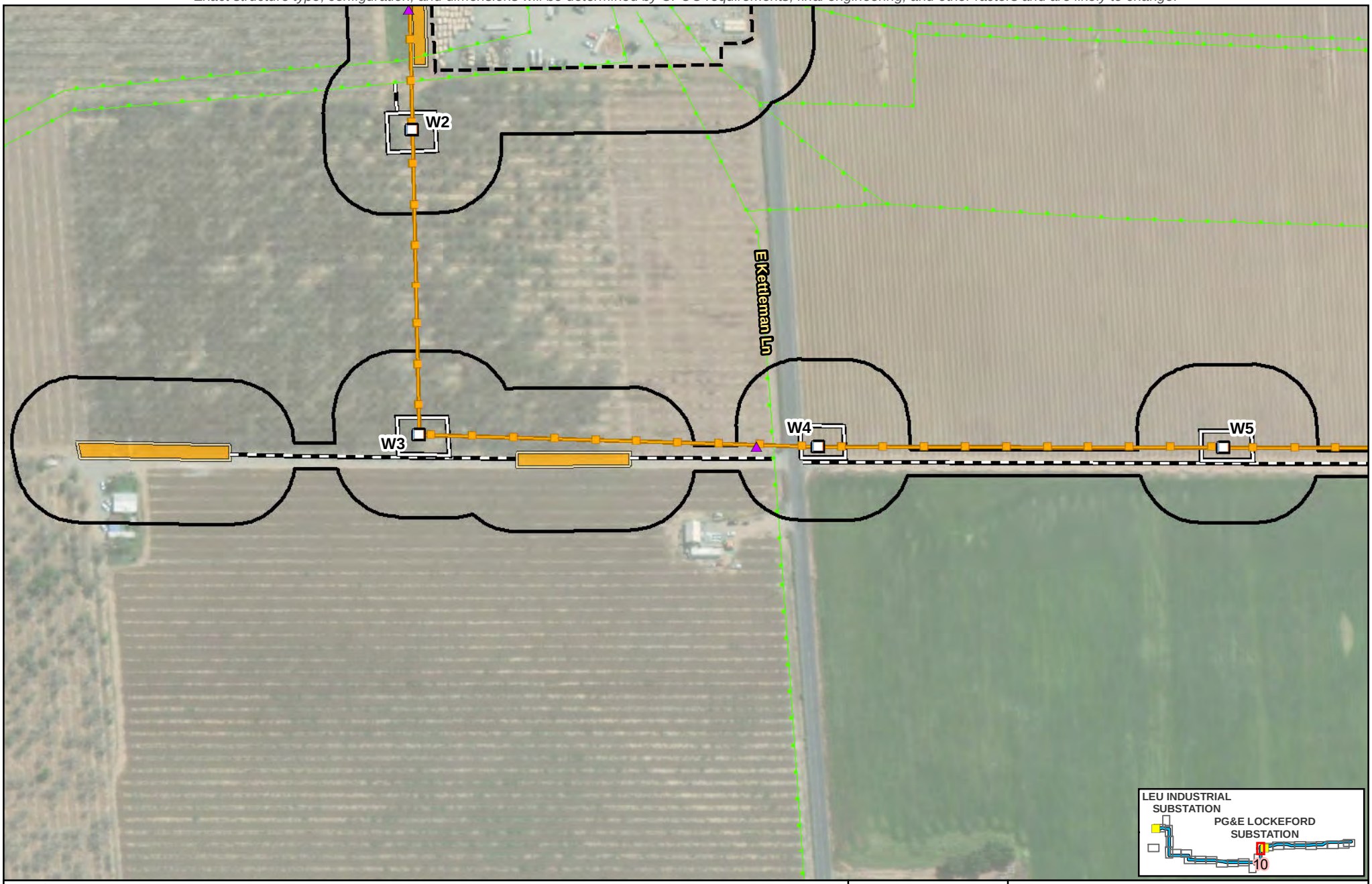

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
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- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 10 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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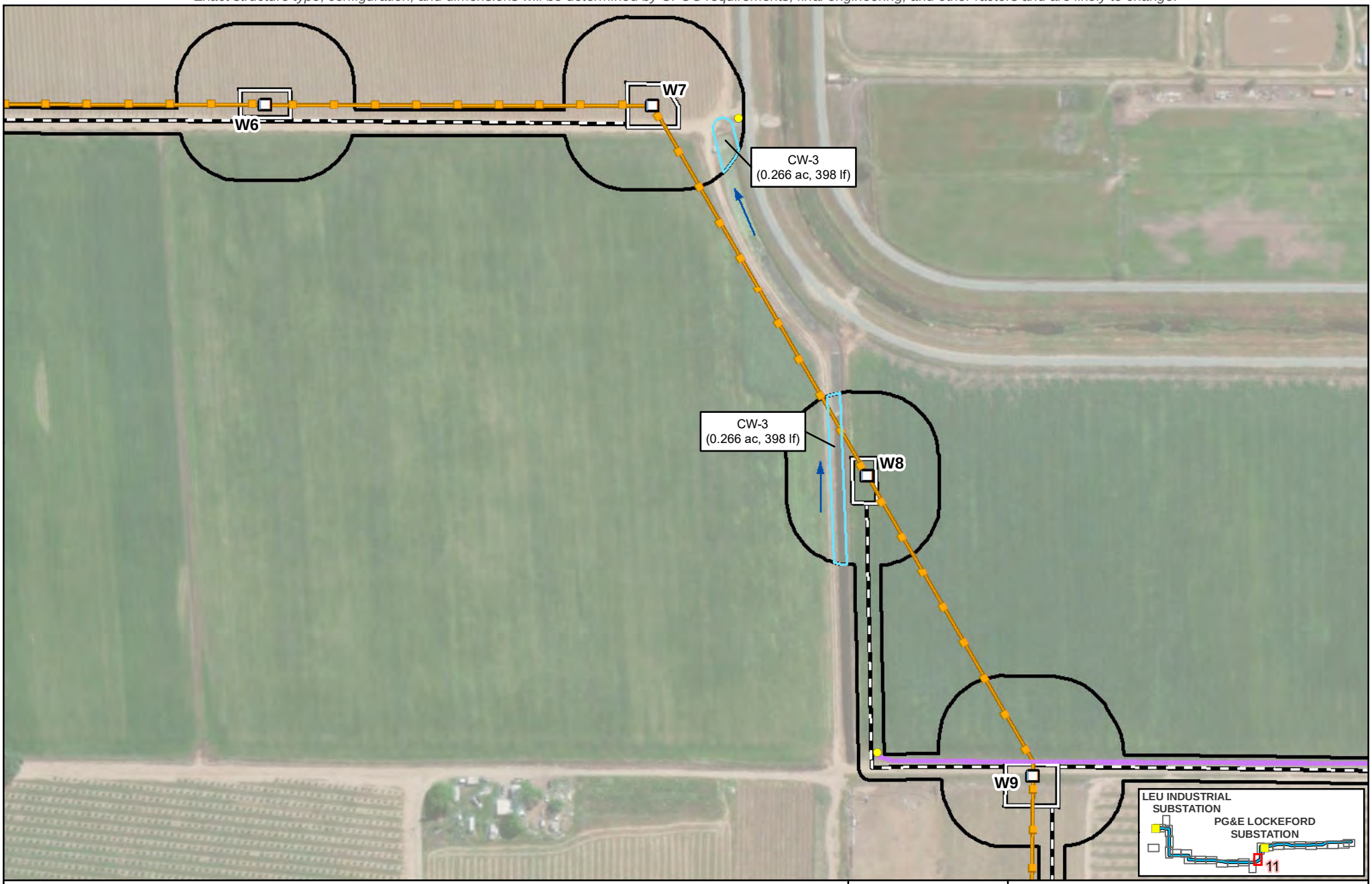

Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
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- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
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Potentially Jurisdictional Aquatic Resources and Riparian Habitat

- Constructed Watercourse (CW) (0.545 ac, 2,775 lf)
- Irrigation Ditch (ID) (0.152 ac, 1,654 lf)
- Culvert
- Flow Direction

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 11 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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Legend

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- Flow Direction
- Transect

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 12 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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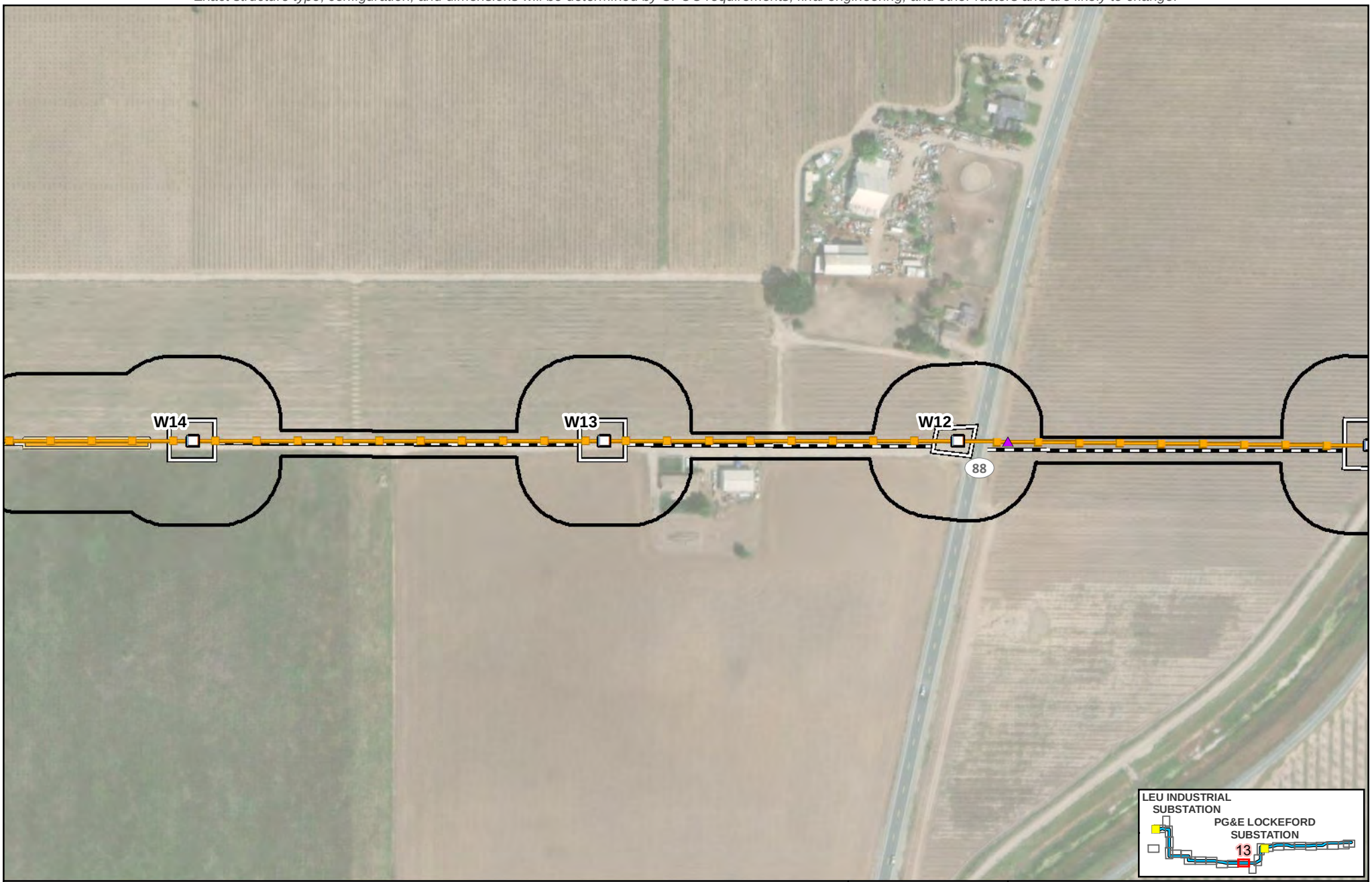

Legend

- Biological Resources Survey Area (387.06 acres)
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Proposed Impact Areas

- Proposed Structure
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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 13 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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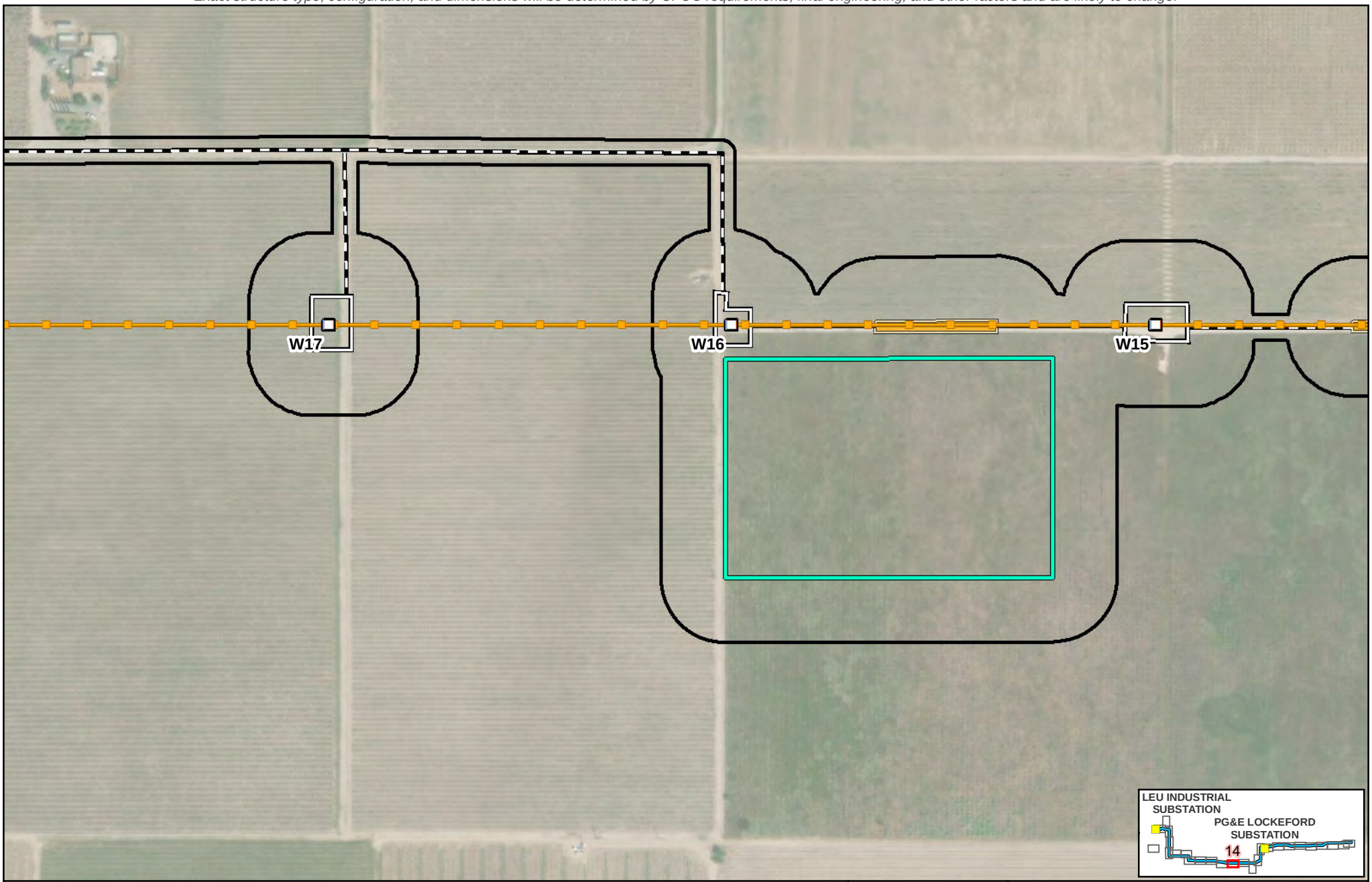

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- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 14 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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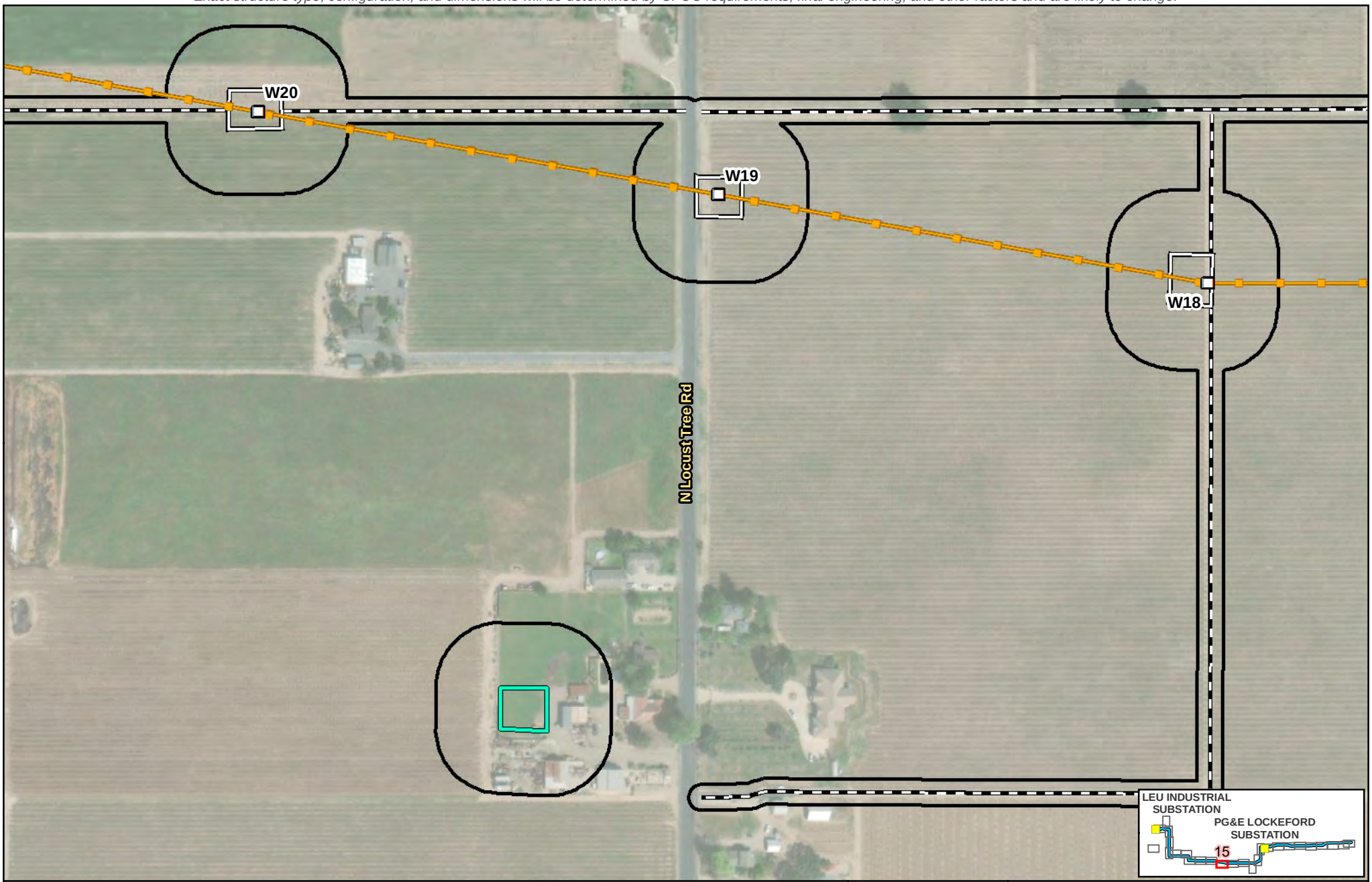

Legend

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- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 15 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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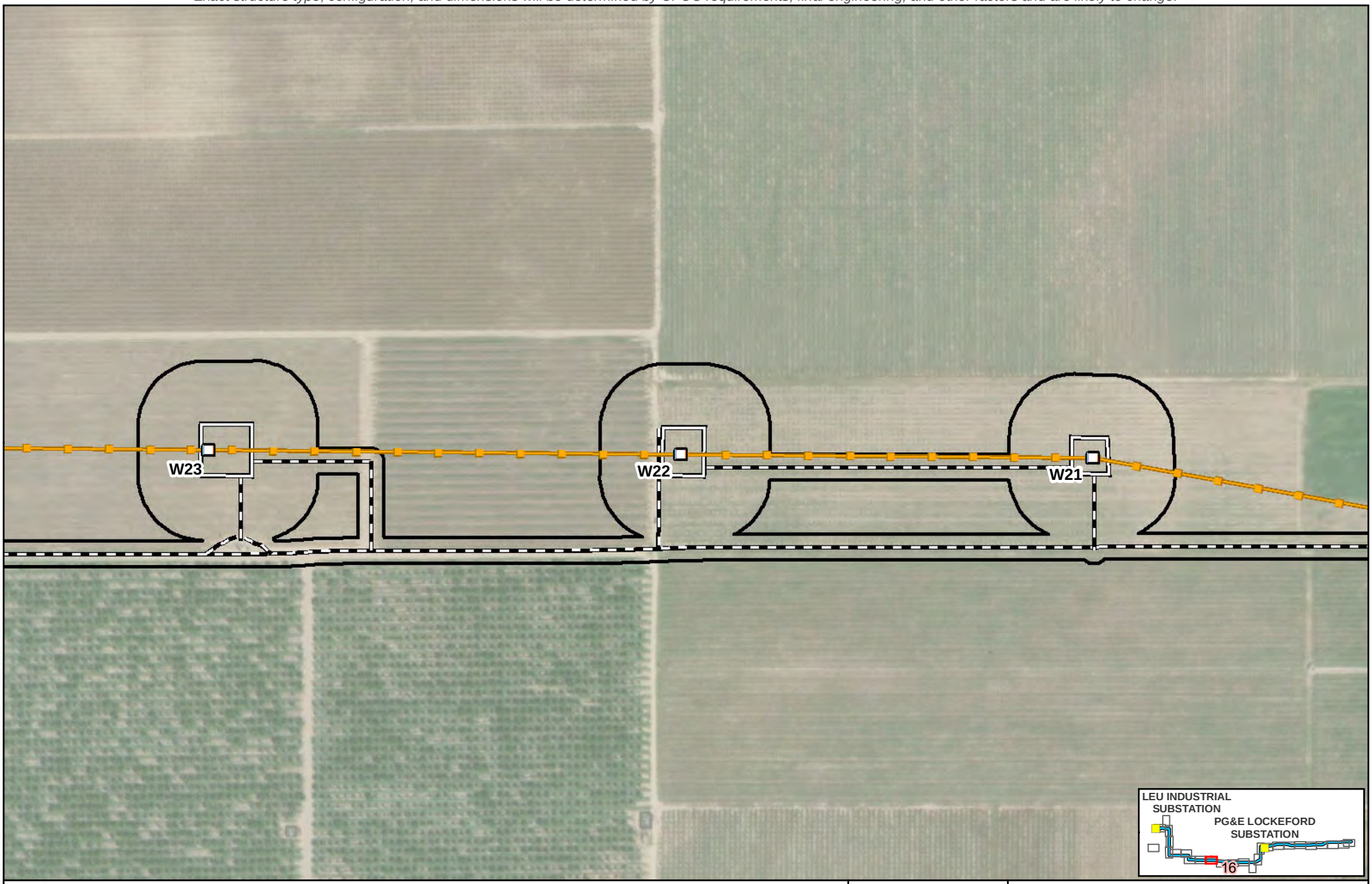

Legend

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- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
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Northern San Joaquin 230 kV Transmission Project

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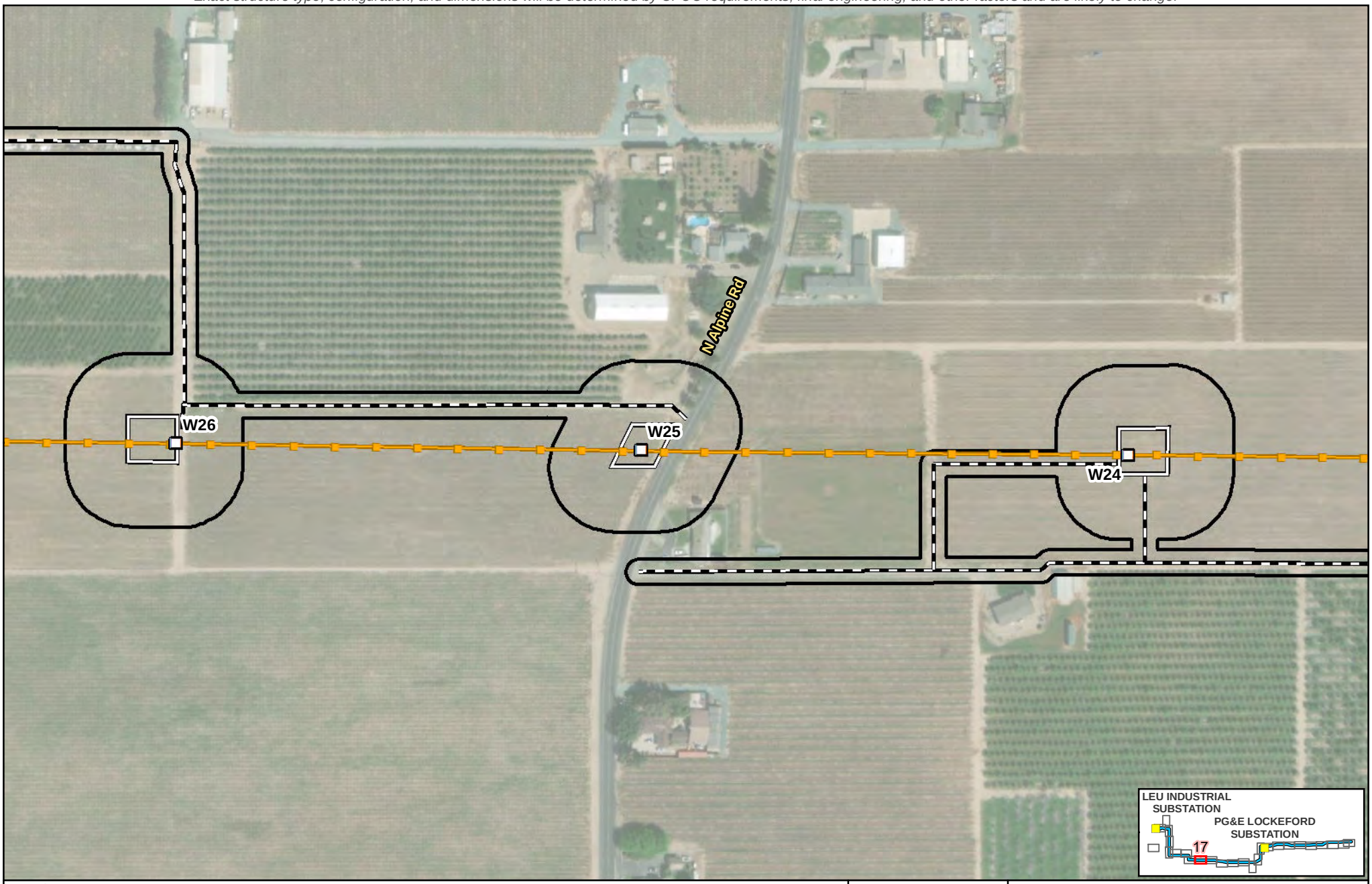
Preliminary design and engineering for the physical, civil, and outdoor components.
Exact structure type, configuration, and dimensions will be determined by CPUC requirements, final engineering, and other factors and are likely to change.



Legend

- Biological Resources Survey Area (387.06 acres)
- Substation
- PG&E New 230 kV Transmission Line
- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

Proposed Impact Areas

- Proposed Structure
- RO-L1 Proposed TSP
- Structure: Modify or Replace
- Structure: Remove
- Existing Guy Stub Pole: Remove
- Potential Guard Structure Area
- Proposed Access Route
- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
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Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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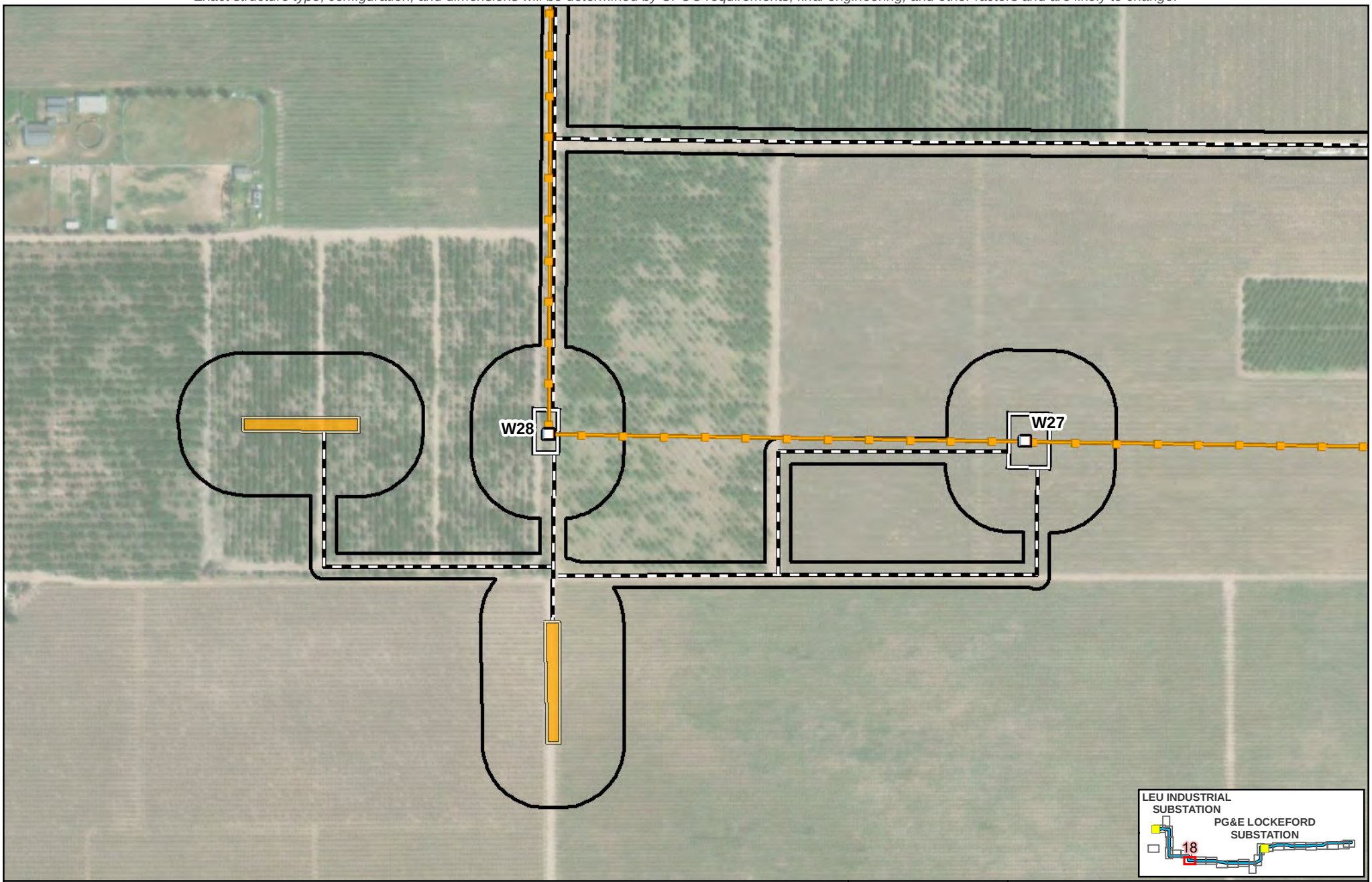

Legend

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 18 of 26
Northern San Joaquin 230 kV Transmission Project

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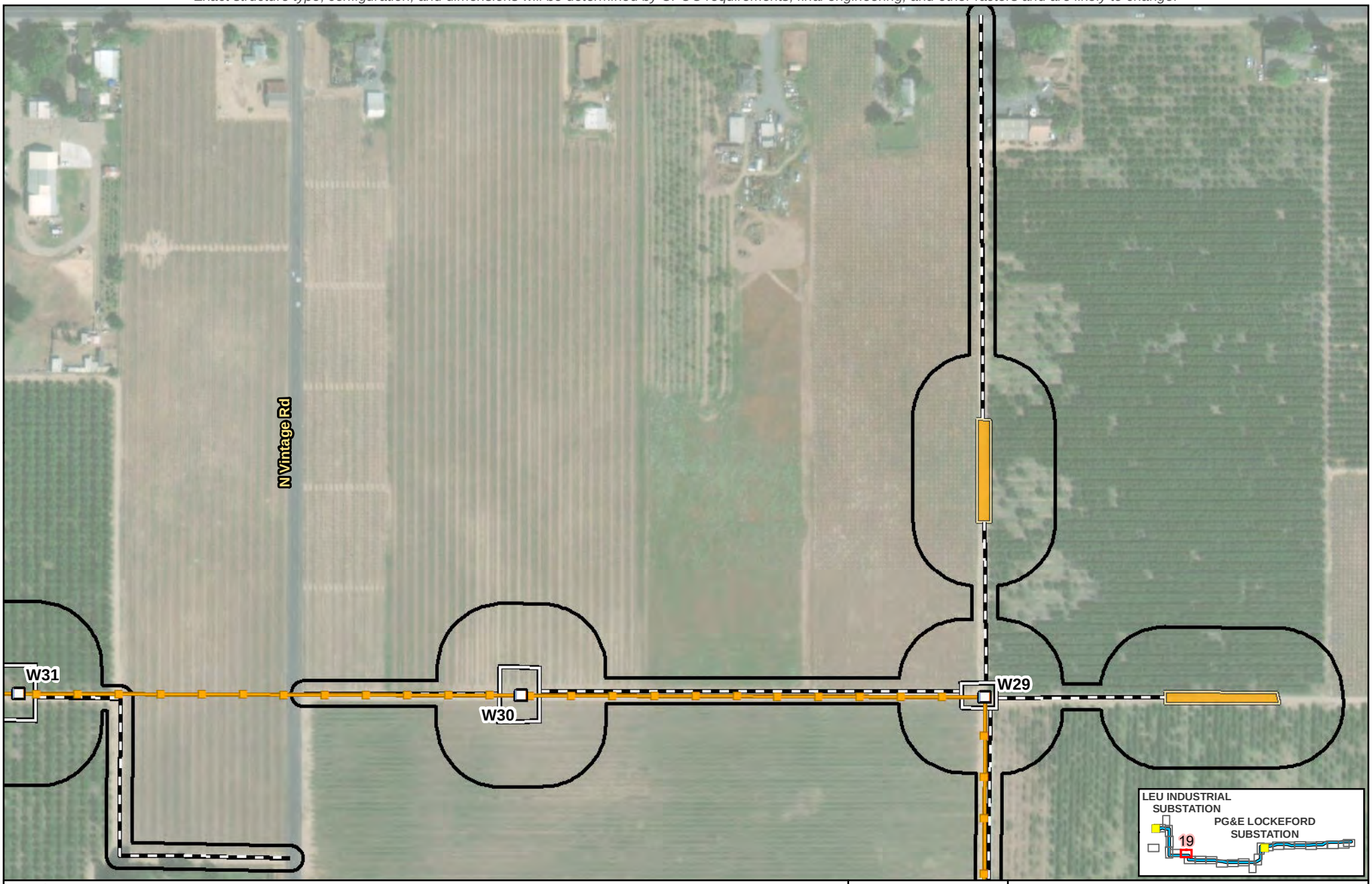

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
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Northern San Joaquin 230 kV Transmission Project

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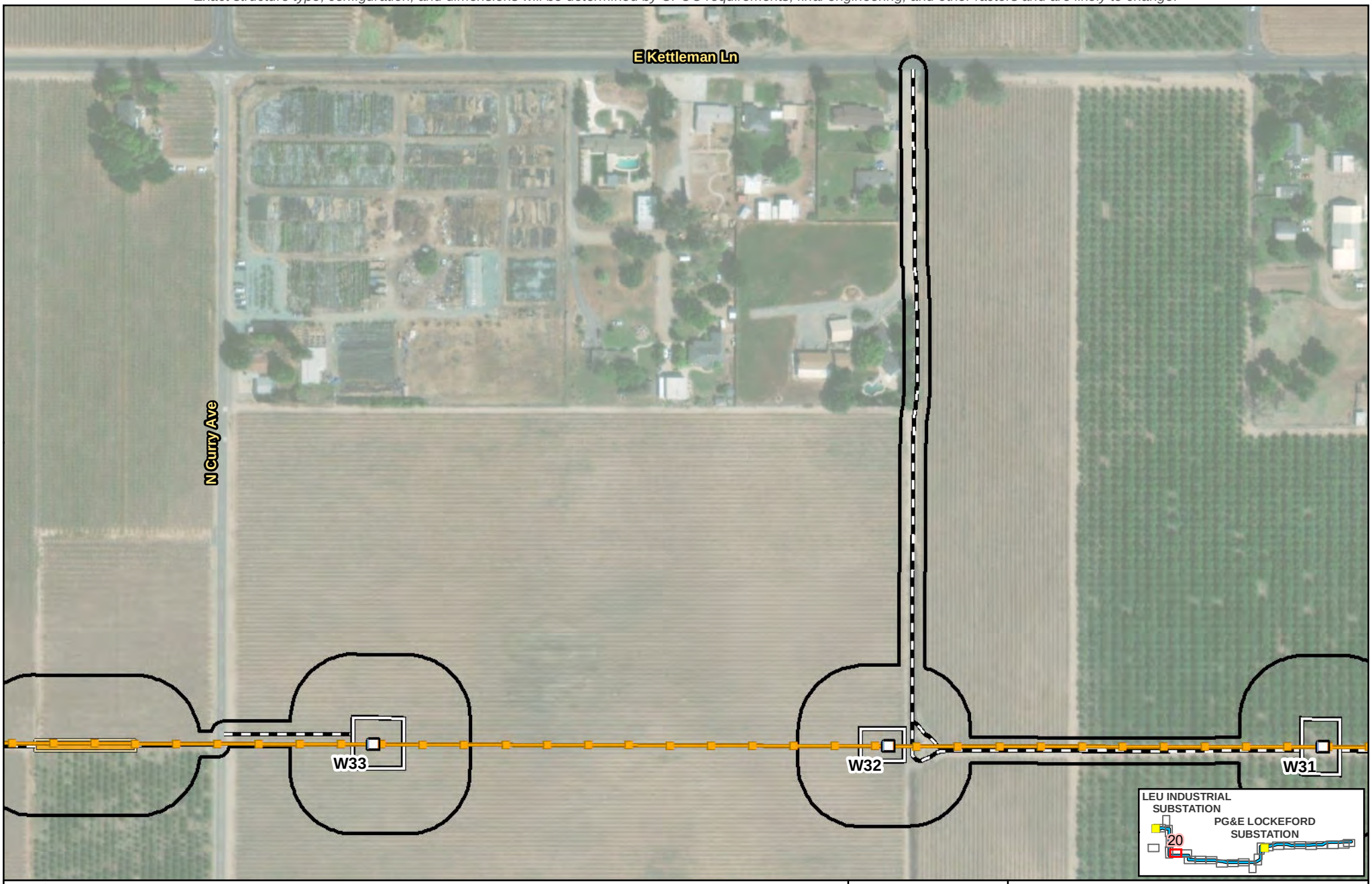

Legend

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 20 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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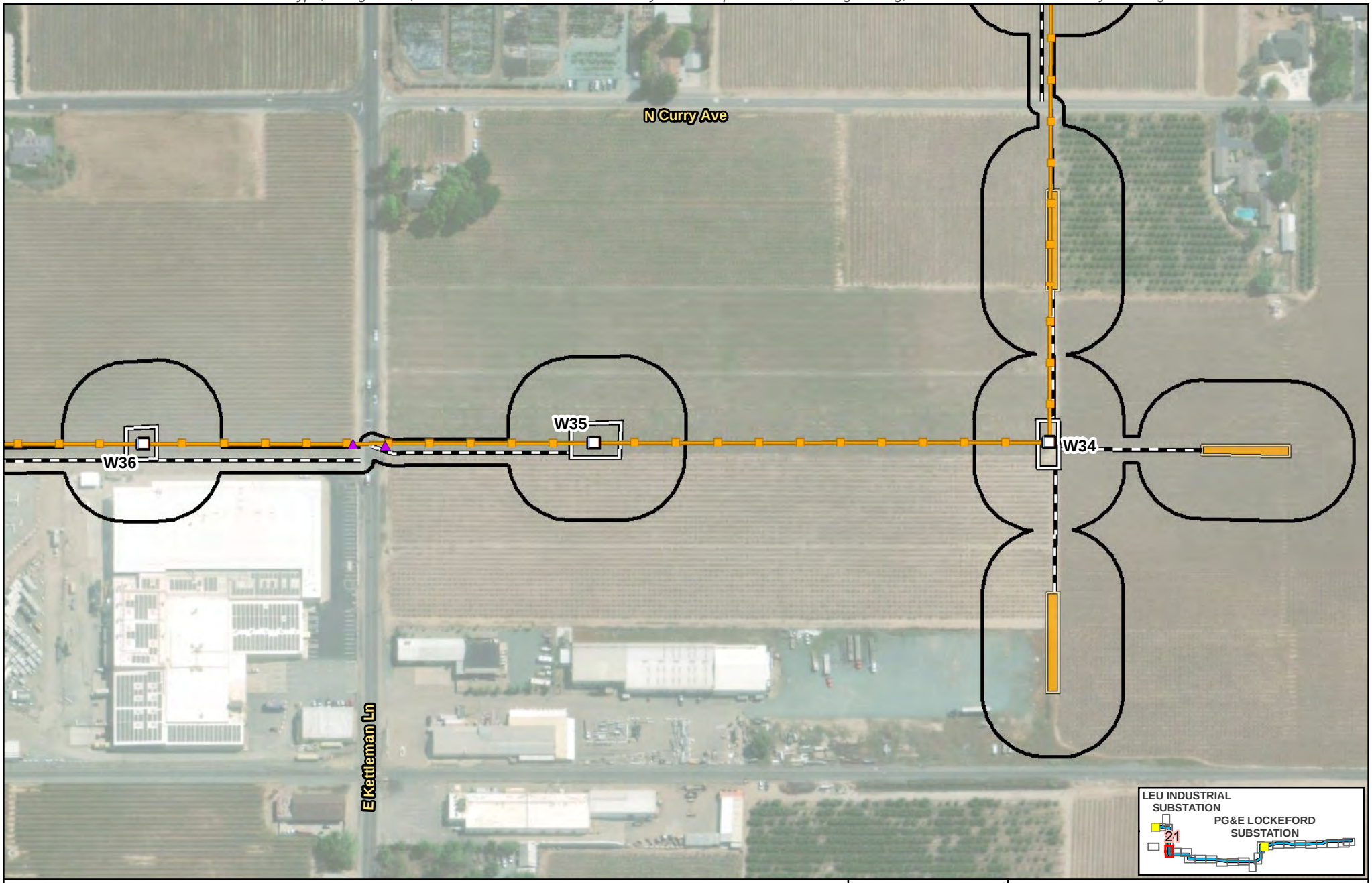

Legend

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Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 21 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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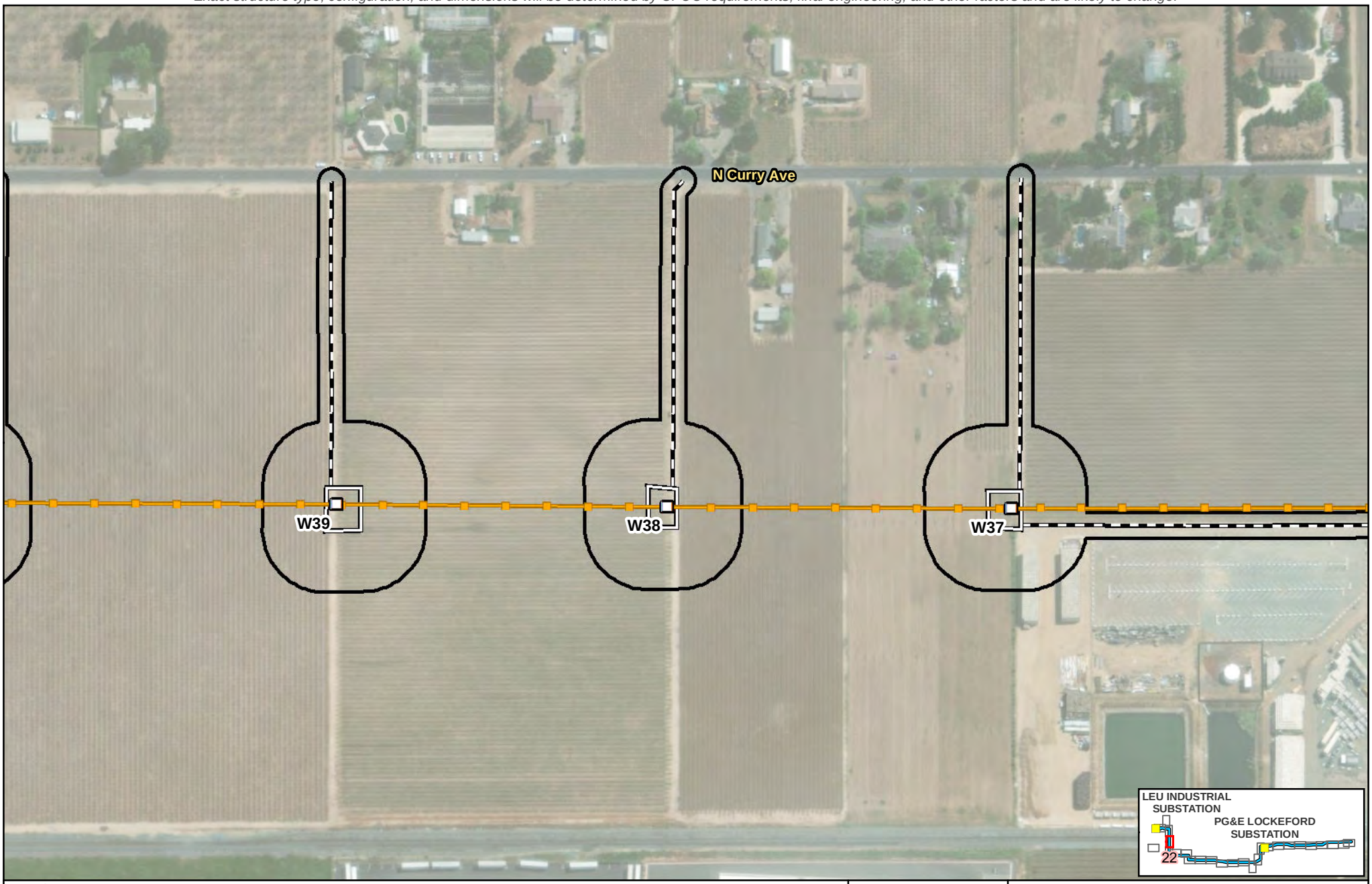

Legend

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- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 22 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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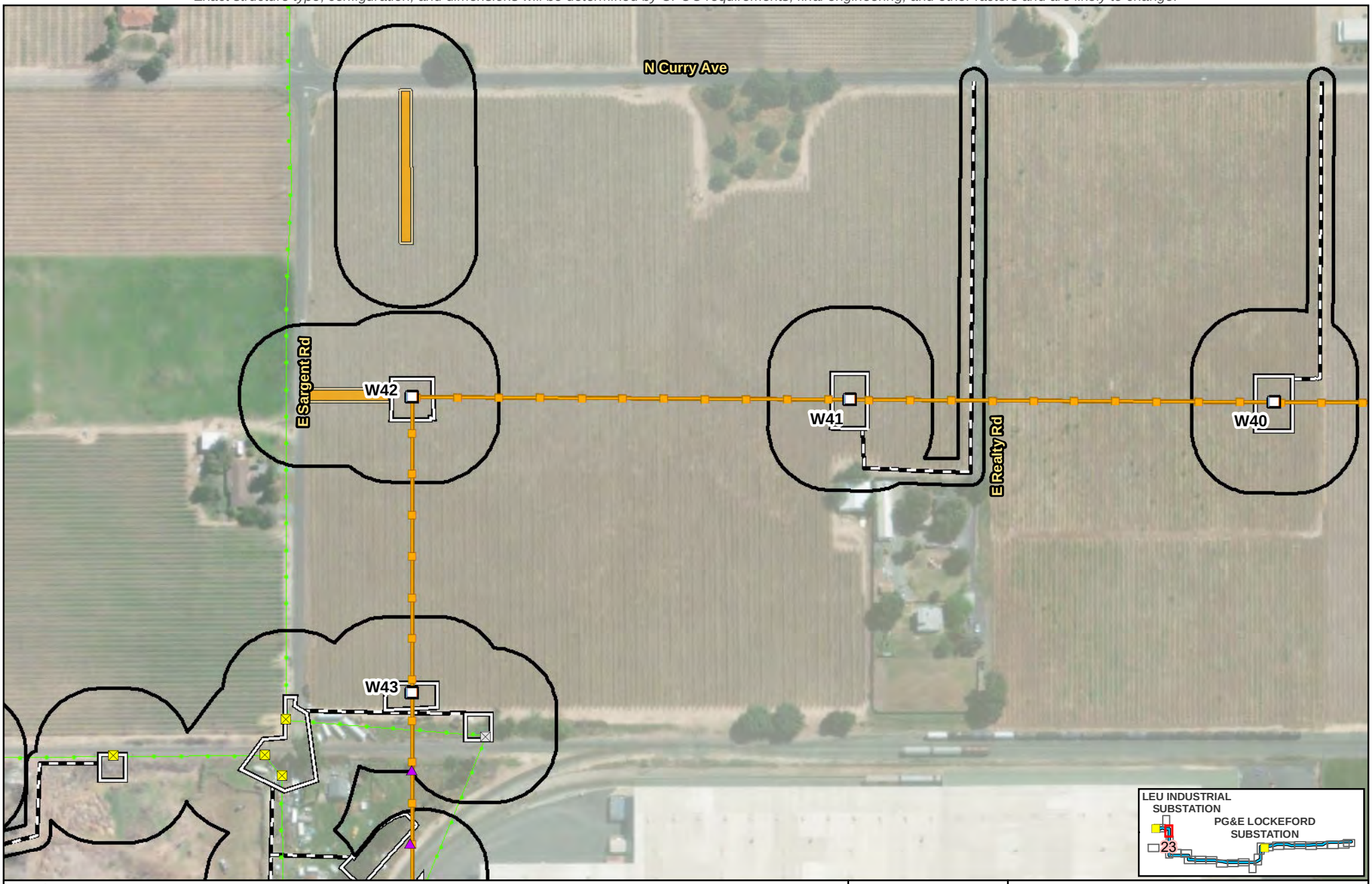

Legend

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- Existing 60 kV Power Line
- Existing 230 kV Transmission Line

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- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 23 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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Legend

- Biological Resources Survey Area (387.06 acres)
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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 24 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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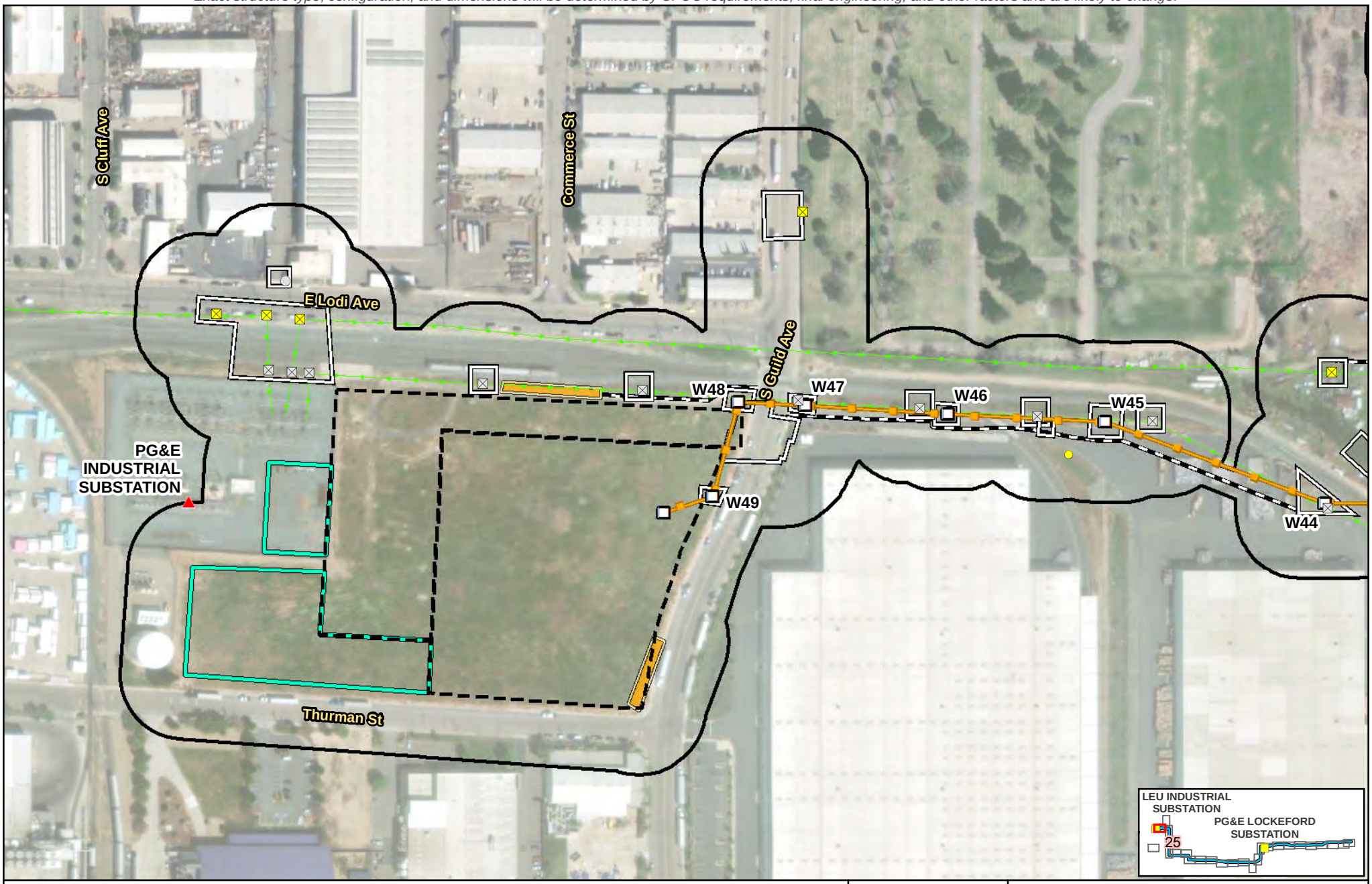

Legend

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- Proposed Work Area
- Proposed Pull Site
- Proposed Fenceline
- Proposed Staging Area
- Culvert

Source:
1) Esri World Imagery

N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 25 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023

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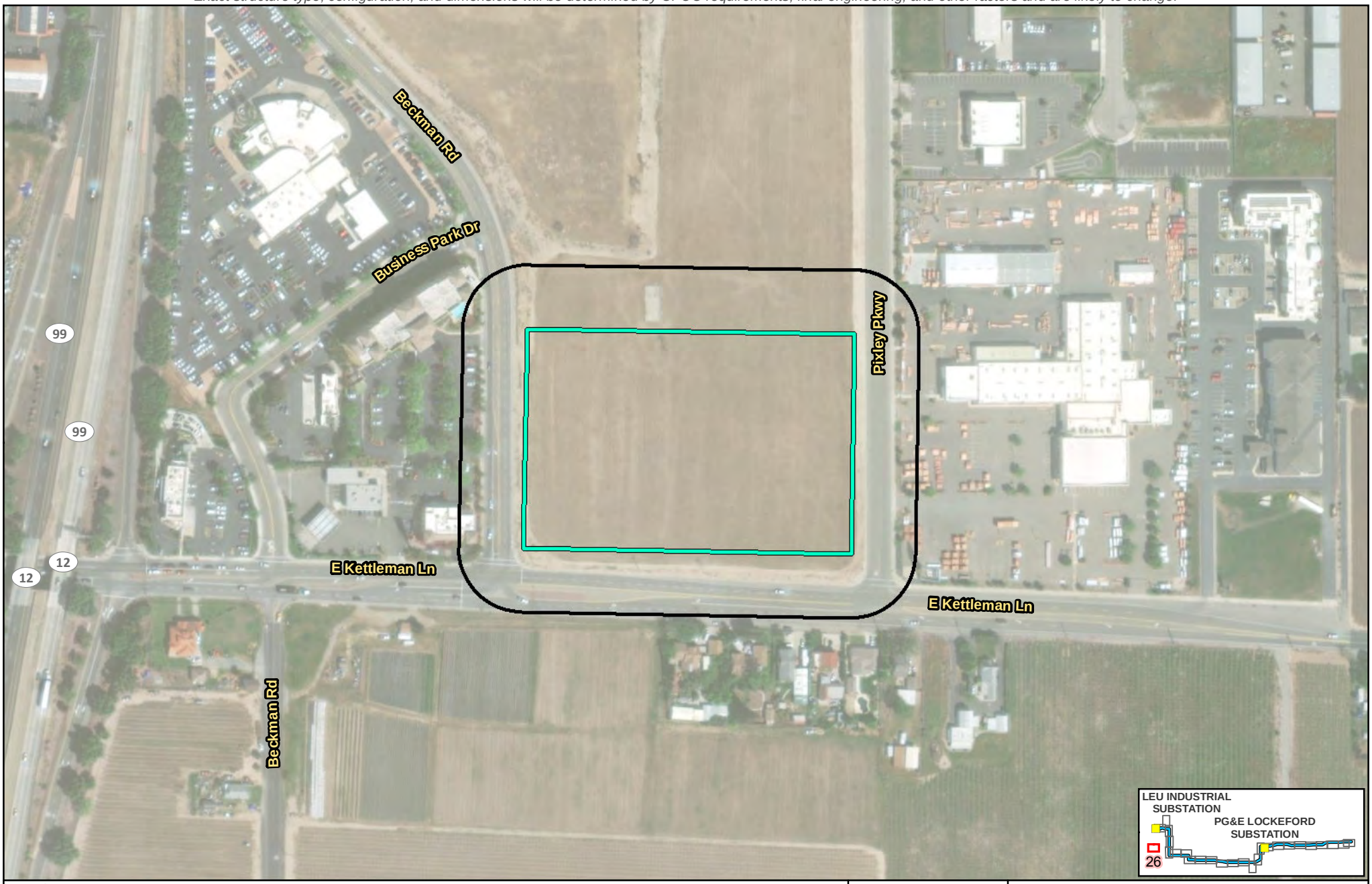

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Source:
1) Esri World Imagery

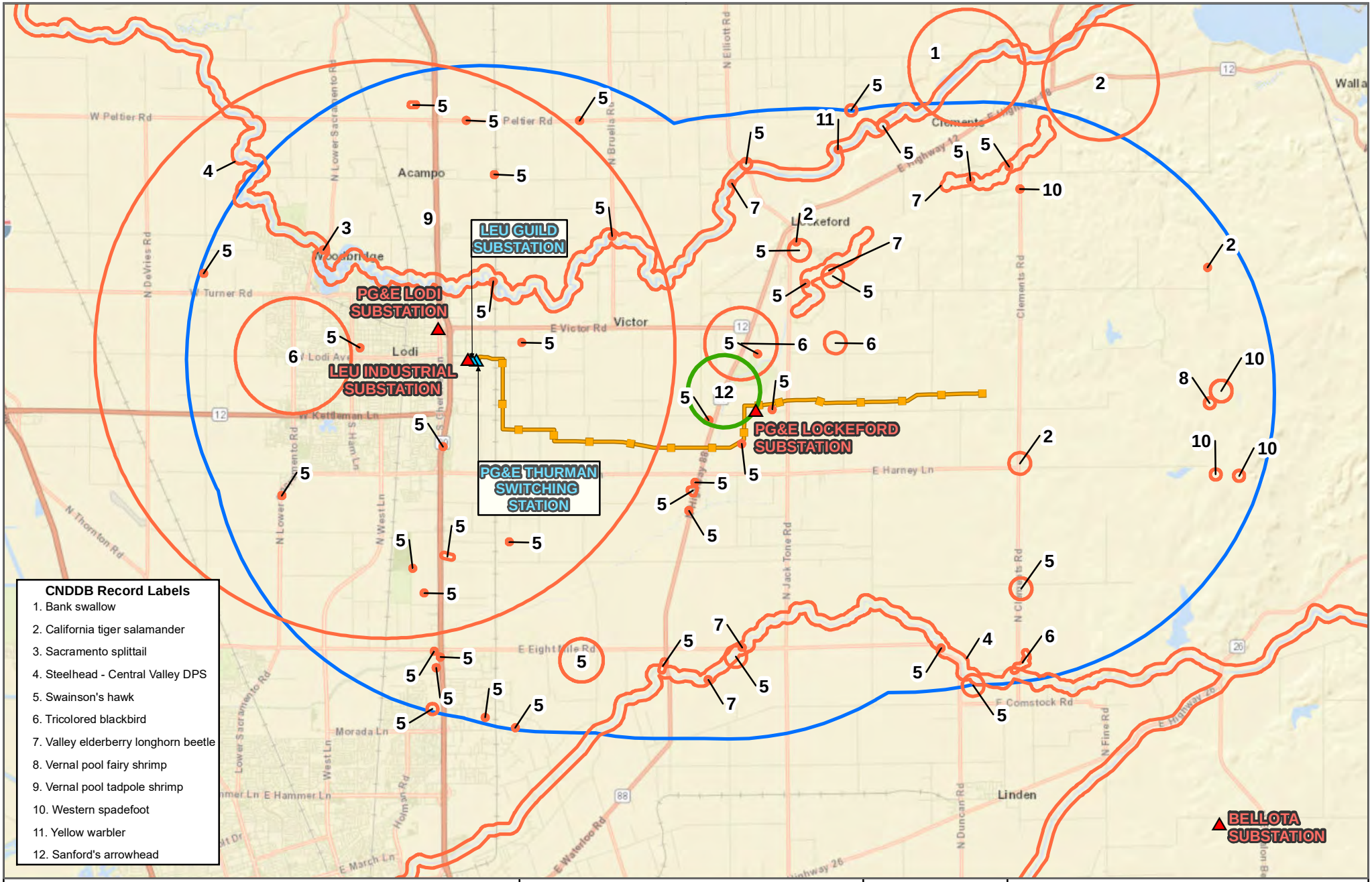
N

Scale: 1:3,000

0 100 Feet

FIGURE 4
Aquatic Resources within the Biological Resources Survey Area
Page 26 of 26
Northern San Joaquin 230 kV Transmission Project

\\dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\BiologicalResources\Tech_Report\Figure_4_230818.mxd kgrant1 8/21/2023



Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- 5-mile Project Buffer
- CNDDB Records within 5 Miles of the Project Area - Wildlife
- CNDDB Records within 5 Miles of the Project Area - Plants

Source:
1) ESRI World Street Map
2) CDFW, California Natural Diversity Database, December 2020.

0 9,400 18,800 Feet

N

Scale: 1:140,000

Project Location

FIGURE 5
CNDDB Records within 5 Miles of the Project Area
Northern San Joaquin 230 kV Transmission Project

Jacobs

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Attachment A
Special-Status Species Tables

Attachment A: Special-Status Species Tables

The special-status species tables have been divided into plants (Table A-1) and wildlife (Table A-2).

Table A-1: Special-Status Plant Species Identified in the Records Searches

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Agrostis hendersonii	Henderson's bent grass	-	-	3.2	Valley and foothill grassland (mesic) and vernal pools	Apr-Jun	Unlikely to occur. Low-quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Arctostaphylos myrtifolia	Ione manzanita	T	-	1B.2	Chaparral and cismontane woodland	Nov-Mar	Absent. No suitable habitat is present within the BSA.
Astragalus tener var. *tener*	alkali milk vetch	-	-	1B.2	Alkali playa, valley and foothill grassland, vernal pools; low ground, alkali flats, and flooded lands; in annual grassland or in playas or vernal pools	Mar-Jun	Unlikely to occur. Low-quality, disturbed, and ruderal grassland exists throughout the BSA, as do alkali flats. There is one historic occurrence in Stockton, but the BSA does not have alkaline habitat or vernal pools for this species to grow (Calflora 2022).
Atriplex cordulata var. *cordulata*	heartscale	-	-	1B.2	Saline soils, alkaline scrub, chenopod scrub, meadows and seeps, valley and foothill grassland	Apr-Oct	Unlikely to occur. Scrubs are not present in the BSA, and although there are historic occurrences in the Stockton West quadrangle (Calflora 2022), suitable habitat has predominantly been converted to agricultural development. Additionally, saline soils suitable for this species are not present in the BSA.
Azolla microphylla	Mexican mosquito fern	-	-	4.2	Marshes and swamps (ponds, slow water)	Aug	Absent. Marshes and swamps are not present in the BSA.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Blepharizonia plumosa	big tarplant	-	-	1B.1	Dry hills and plains in annual grassland; clay to clay-loam soils; usually on slopes and often in burned areas	Jul-Oct	Unlikely to occur. Calflora search results indicate a confirmed range within the BSA and one occurrence in the Stockton West quadrangle (Calflora 2022). However, suitable habitat such as slopes and burned areas are not present. Additionally, increasing agricultural development and urbanization has severely limited suitable habitat of this species.
Brasenia schreberi	watershield	-	-	2B.3	Marshes and swamps (freshwater); this plant is strictly aquatic	Jun-Sep	Absent. Marshes and swamps are not present in the BSA.
Brodiaea rosea	valley brodiaea	-	-	4.2	Old alluvial terraces; silty, sandy, and gravelly loam; valley and foothill grassland (swales) and vernal pools	Apr-May (Jun)	Unlikely to occur. Calflora search results indicate a confirmed range within the project area and an occurrence in the Clements quadrangle (Calflora 2022); however, suitable habitat has predominantly been converted to vineyards and orchards, which do not support habitat requirements of this species.
Calycadenia hooveri	Hoover's calycadenia	-	-	1B.3	Cismontane woodland and valley and foothill grassland	Jul-Sep	Unlikely to occur. Low-quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Carex comosa	bristly sedge	-	-	2B.1	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grassland	May-Sep	Unlikely to occur. Low-quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Castilleja campestris var. *succulenta*	succulent owl's-clover	T	E	1B.2	Occurs usually in wetlands, occasionally in non-wetlands; habitat is vernal pools (often acidic) with a variety of characteristics, including small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods; vegetation communities include valley grassland, foothill grassland, freshwater wetlands, wetland-riparian	(Mar) Apr-May	Potential to occur. Although there are no CNDDB occurrences within 5 miles of the BSA, a reconnaissance survey conducted in early December of 2019 and an aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. This species was not found during the appropriately timed botanical surveys.
Centromadia parryi ssp. *rudis*	Parry's rough tarplant	-	-	4.2	Occurs in alkaline and vernally mesic soils in seeps, valley and foothill grassland, vernal pools, and sometimes roadsides	May-Oct	Unlikely to occur. The BSA does not have alkaline habitats for this species to grow and there are no CNDDB occurrences within 5 miles of the BSA.
Chloropyron palmatum	palmate-bracted bird's-beak	E	E	1B.1	Occurs in alkaline soils, grows in saline-alkaline soils in seasonally flooded lowland plains and basins at elevations of less than 500 feet; associated plant species include iodine bush (*Allenrolfea occidentalis*), alkali heath (*Frankenia salina*), Great Valley gum plant (*Grindelia camporum*), and Parry's rough tarplant (*Centromadia parryi* ssp. *rudis*); vegetation communities include chenopod scrub, valley grassland, foothill grassland	May-Oct	Absent. No suitable habitat is present within the BSA.
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	-	-	2B.1	Marshes and swamps (brackish, coastal, freshwater)	Jul-Sep	Absent. No marshes or swamps are present within the BSA.
Delphinium recurvatum	recurved larkspur	-	-	1B.2	Chenopod scrub, valley and foothill grassland, cismontane woodland; on alkaline soils; often in valley saltbrush or valley chenopod scrub	Mar-Jun	Absent. Calflora search results indicate a possible range within the BSA and an occurrence in the Stockton East quadrangle (Calflora 2022). However, no suitable habitat or a confirmed range overlap is present.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Downingia pusilla	dwarf downingia	-	-	2B.2	Occurs in wetlands; habitat is vernal pools (no acidic preference) and wet ditches; vegetation communities include foothill woodland, valley grassland, freshwater wetlands, wetland-riparian	Mar-May	Unlikely to occur. Calflora search results indicate a possible range within the project area, an occurrence in the Stockton East quadrangle, and the possible occurrence of suitable habitat. However, there are no CNDDB occurrences within 5 miles of the BSA. Vernal pool habitat is not present.
Eryngium pinnatisectum	Tuolumne button-celery	-	-	1B.2	Cismontane woodland, lower montane coniferous forest, and vernal pools	May-Aug	Absent. No suitable habitat is present within the BSA.
Eryngium racemosum	Delta button-celery	-	E	1B.1	Riparian scrub; seasonally inundated floodplains on clay	Jun-Oct	Absent. Riparian scrub and floodplains do not exist in the BSA.
Extriplex joaquinana	San Joaquin spearscale	-	-	1B.2	Alkaline soils, chenopod scrub, meadows and seeps, playas, valley and foothill grassland	Apr-Oct	Unlikely to occur. There is only marginally suitable habitat present in the BSA. Alkaline habitat is not present. There are no CNDDB occurrences within 5 miles of the BSA.
Gratiola heterosepala	Boggs Lake hedge-hyssop	-	E	1B.2	Found predominantly growing in clay soils, marshes and swamps (lake margins), vernal pools	Apr-Aug	Absent. Marshes and swamps do not occur in the BSA. Additionally, the closest extant populations of this species occur in Solano and Sacramento counties (Calflora 2022).
Hesperevax caulescens	hogwallow starfish	-	-	4.2	Valley and foothill grassland (mesic clay) and vernal pools (shallow)	Mar-Jun	Unlikely to occur. Low-quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Hibiscus lasiocarpos var. *occidentalis*	wooly rose-mallow	-	-	1B.2	Marshes and swamps (freshwater); moist, freshwater-soaked river banks and low peat islands in sloughs; can also occur on riprap and levees	Jun-Sep	Absent. Marshes and swamps are not present in the BSA.
Horkelia parryi	Parry's horkelia	-	-	1B.2	Chaparral and cismontane woodland	Apr-Sep	Absent. No suitable habitat is present within the BSA.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Juncus leiospermus var. *ahartii*	Ahart's dwarf rush	-	-	1B.2	Valley and foothill grassland (mesic)	Mar-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Lasthenia ferrisiae	Ferris' goldfields	-	-	4.2	Vernal pools (alkaline, clay)	Feb-May	Absent. No suitable habitat is present within the BSA.
Lathyrus jepsonii var. *jepsonii*	delta tule pea	-	-	1B.2	Found in freshwater and brackish marshes; most often in ditches and along levees near Napa; often found with *Typha*, *Aster lentus*, *Rosa californica*, *Juncus* spp., *Scripus* spp.; usually on marsh and slough edges	May-Jul	Absent. The closest recorded observations of this species occur in western Lodi and Stockton (Calflora 2022); however, suitable habitat such as marshland sloughs are not present in the BSA.
Legenere limosa	legenere	-	-	1B.1	Occurs below elevations of 2,000 feet in vernal pools and wetlands; vegetation communities include valley grassland, freshwater wetlands, wetland-riparian	Apr-Jun	Unlikely to occur. There is marginally suitable wetland habitat present in the BSA. There are no CNDDDB occurrences within 5 miles of the BSA.
Lilaeopsis masonii	Mason's lilaeopsis	-	R	1B.1	Found in freshwater and brackish marshes and in riparian scrub habitats; found along the margins of the Napa River	Apr-Nov	Absent. This species grows predominantly along the margins of the Napa River (Calflora 2022). Suitable habitat is not present.
Limosella australis	Delta mudwort	-	-	2B.1	Marshes and swamps (brackish, freshwater) and riparian scrub	May-Aug	Absent. No suitable habitat is present within the BSA.
Navarretia myersii ssp. *myersii*	pincushion navarretia	-	-	1B.1	Vernal pools; clay soils within non-native grassland	Apr-May	Absent. This species predominantly occurs in the foothill grasslands of the Sierra Nevada (Calflora 2022). Suitable habitat is not present.
Navarretia paradoxiclara	Patterson's navarretia	-	-	1B.3	Meadows and seeps	May-Jun (Jul)	Absent. No suitable habitat is present within the BSA.
Orcuttia viscida	Sacramento Orcutt grass	E	E	1B.2	Occurs in wetlands; habitat is vernal pools (often acidic); vegetation communities include valley grassland, freshwater wetlands, wetland-riparian	Apr-Jul (Sep)	Absent. The closest extant populations occur in Placer, Sacramento, and El Dorado Counties outside of the BSA (Calflora 2022). Suitable habitat is not present.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Ranunculus lobbii	Lobb's aquatic buttercup	-	-	4.2	Cismontane woodland, north Coast coniferous forest, valley and foothill grassland, and vernal pools	Feb-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Sagittaria sanfordii	Sanford's arrowhead	-	-	1B.2	Occurs in wetlands, marshes, and swamps (assorted shallow freshwater); vegetation communities include freshwater wetlands, wetland-riparian	May-Oct (Nov)	Potential to occur. Marginally suitable habitat is present in the BSA adjacent to aquatic resources such as creeks, canals, and ditches. There is one CNDDB occurrence within 5 miles of the BSA. The species was not observed during appropriately timed botanical surveys.
Scutellaria galericulata	marsh skullcap	-	-	2B.2	Lower montane coniferous forest, meadows and seeps (mesic), and marshes and swamps	Jun-Sep	Absent. No suitable habitat is present within the BSA.
Scutellaria lateriflora	side-flowering skullcap	-	-	2B.2	Meadows and seeps (mesic) and marshes and swamps	Jul-Sep	Absent. No suitable habitat is present within the BSA.
Symphyotrichum lentum	Suisun marsh aster	-	-	1B.2	Found in brackish and freshwater marshes and swamps; most often seen along sloughs with *Phragmites, Scripus, Rubus, Typha*	May-Nov	Unlikely to occur. Calflora search results indicate occurrences in the Stockton West, Stockton East, and Lodi South quadrangles (Calflora 2022). However, marshes and swamps are not present in the BSA.
Trifolium hydrophilum	saline clover	-	-	1B.2	Occurs in marshes and swamps, vernal pools and valley and foothill grassland; mesic, alkaline sites	Apr-Jun	Absent. Most recent observations of this species are within the Suisun and San Pablo bays (Calflora 2022). Suitable alkaline habitat is not considered present in the BSA.
Tuctoria greenei	Greene's Tuctoria	E	R	1B.1	Vernal pools	May-Jul(Sep)	Absent. This species has recorded occurrences in Stockton and Farmington in 1936 (Calflora 2022). However, this species is considered extirpated from the BSA because of increased agricultural development and urbanization. Suitable habitat is not present.

Scientific Name	Common Name	Status*			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			

*Status designations are as follows:

Federal Designations:

(E) Federally Endangered; (T) Federally Threatened

State Designations:

(E) State Endangered; (R) Rare

California Native Plant Society (CNPS) California Rare Plant Rank (CRPR):

(1A) Presumed extinct in California

(1B) Rare, threatened, or endangered in California and elsewhere

(2B) Rare, threatened, or endangered in California, but more common elsewhere

(3) More information is needed

(4) Limited distribution

Threat Rank:

0.1 Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat)

0.2 Moderately threatened in California (20 to 80% of occurrences threatened/moderate degree and immediacy of threat)

0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Sources:

California Department of Fish and Wildlife (CDFW). 2023. California Natural Diversity Database, Biogeographic Data Branch. California Department of Fish and Wildlife. Sacramento, CA. Accessed May 3, 2023. https://www.wildlife.ca.gov/data/cnddb.

California Native Plant Society (CNPS). 2023. Online Inventory of Rare, Threatened and Endangered Plants of California. Accessed May 3, 2023. http://www.rareplants.cnps.org/advanced.html.

California Native Plant Society Calflora Database (Calflora). 2022. "'What Grows Here' online application for documented ranges and occurrences of rare and endangered plants of California." Accessed August 29, 2022. https://www.calflora.org/.

U.S. Fish and Wildlife Service (USFWS). 2023. Environmental Conservation Online System: Information, Planning and Conservation System (IPaC), 2023. Accessed May 3, 2023. https://ecos.fws.gov/ipac/.

Table A-2: Special-status Wildlife Species Identified in the Records Searches

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Invertebrates						
Bombus crotchii	Crotch bumble bee	-	CE	-	Range extends from coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Eriogonum.*	Unlikely to occur. Habitat for this species, including annual grassland, small mammal burrows, and floral host plants, occurs within the BSA. However, the species is thought to be absent from much of its historic range in the Central Valley (Hatfield et. al. 2014). Additionally, current land use in the BSA has degraded potential habitat to very low quality.
Branchinecta conservatio	Conservancy fairy Shrimp	E	-	-	Endemic to the grasslands of the central valley, central coast mountains, and south coast mountains in rain-filled vernal pools and swales.	Unlikely to occur. Suitable vernal pool habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA, and per the most recent 5-year review of the species, the closest known population is greater than 20 miles away (USFWS 2012). Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard and are no longer considered suitable habitat.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Branchinecta lynchi	vernal pool fairy shrimp	T	-	-	Endemic to the grasslands of the central valley, central coast mountains, and south coast mountains in rain-filled vernal pools and swales.	Unlikely to occur. Suitable vernal pool and swale habitat is not present within the BSA. There is one CNDDB occurrence (#925) within 5 miles of the BSA. This occurrence is located within known vernal pools 4 miles east of the BSA and is separated from the BSA by at least 1.8 miles of crop agriculture. This species has been known to occur in roadside ditches and similar areas, but this is often in proximity to higher quality vernal pool habitat. In addition, no roadside ditches or swales will be affected by project activities. Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard and are no longer considered suitable habitat.
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	T	-	-	Valley elderberry longhorn beetles are found in riparian habitat only in the vicinity of their host plant, the elderberry (*Sambucus* species).	Potential to occur. Host plant, the elderberry (*Sambucus* species, such as *S. nigra*), does exist in the BSA. There are five CNDDB occurrences within 5 miles of the BSA.
Lepidurus packardi	vernal pool tadpole shrimp	E	-	-	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools. Commonly found in grass-bottomed swales of unplowed grasslands. Some pools are mud-bottomed and highly turbid.	Unlikely to occur. Suitable vernal pool and swale habitat is not present within the BSA. There is one CNDDB occurrence (#210) within 5 miles of the BSA. This occurrence has no location or ecological setting details and is based on one specimen collected in 1990. Aerial imagery indicates that aside from the Mokelumne River, the occurrence area has been nearly entirely converted to crop agriculture, which is not suitable habitat for this species. Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard and are no longer considered suitable habitat.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Fish						
Acipenser medirostris	Green sturgeon – southern distinct population segment (DPS)	T	-	-	Spawns in the Sacramento, Feather, and Yuba Rivers. Presence in upper Stanislaus and San Joaquin Rivers may indicate spawning. Non-spawning adults occupy marine/estuarine waters. The San Francisco Estuary is important for rearing juveniles.	Absent. Suitable habitat is not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Hypomesus transpacificus	delta smelt	T	E	-	Sacramento-San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait, and San Pablo Bay. Seldom found at salinities > 10 ppt. Most often at salinities <2 ppt.	Absent. Suitable habitat is not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	T	-	-	The minimum depth of water required for successful migration of adult steelhead is 7 inches, although the distance fish must travel through shallow water areas is also a critical factor. Spawning ranges from 6 to 24 inches with an average of 14 inches. Substrates from 0.2 to 4.0 inches in diameter. Temperature requirement of 39 to 52°F.	Unlikely to occur. There is only marginally suitable habitat in the BSA within Bear Creek and Paddy Creek. There are two CNDDB occurrences within 5 miles of the BSA within large rivers including Mokelumne River and Lower Calaveras River.
Pogonichthys macrolepidotus	Sacramento splittail	-	-	SSC	Estuarine habitat. Requires a rising hydrograph for upstream migration and flooded vegetation for spawning and rearing areas.	Unlikely to occur. There is only marginally suitable habitat in the BSA within Bear Creek and Paddy Creek. There is one CNDDB occurrence within 5 miles of the BSA in the lower Mokelumne River.
Spirinchus thaleichthys	longfin smelt	C	T	-	Euryhaline, nektonic, and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Absent. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Amphibians						
Ambystoma californiense	California tiger salamander	T	T	WL	Central Valley DPS federally listed as threatened. Santa Barbara and Sonoma Counties DPS federally listed as endangered. Need underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding.	Unlikely to occur. There are four CNDDB occurrences within 5 miles of the BSA; however, these have been within known vernal pool habitat. Vernal pools are not present within the BSA. Two CNDDB occurrences are historic (#280 from 1973, #289 from 1925). Aerial imagery indicates that natural habitat at these two locations has largely been converted to agriculture since the observations, and these areas are no longer suitable habitat for the species. Occurrence #547 (2002) is approximately 3 miles north of the BSA, separated from the BSA by at least three major roads and land cover entirely converted to crop agriculture, which is not suitable habitat for the species. Occurrence #882 (2008) is approximately 4 miles northeast of the BSA and is also separated from the BSA by at least two major roads, and a span of approximately 2 miles of crop agriculture. There are no suitable migratory corridors from known vernal pool habitat to the BSA, and the nearest potential habitat from the BSA is outside of their known dispersal range. There are no "wildlife occurrences" of CTS within the BSA per the SJVHCP (PG&E 2006).
Rana boylii	foothill yellow-legged frog	-	E	SSC	Partly shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis.	Unlikely to occur. There is suitable habitat within Mokelumne River; however, this is outside of the BSA and separated from the project area by urban development. There are no CNDDB occurrences within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Rana draytonii	California red-legged frog	T	-	-	Variety of habitat elements with aquatic breeding areas embedded within a matrix of riparian and upland dispersal habitats. Breeding sites of the California red-legged frog are in aquatic habitats, including pools and backwaters within streams and creeks, ponds, marshes, springs, sag ponds, dune ponds, and lagoons.	Unlikely to occur. There is only marginally suitable habitat within ponding areas of Bear Creek and adjacent upland dispersal areas. There are no CNDDB occurrences within 5 miles of the BSA and the BSA is approximately 16 miles outside of the USFWS's mapped current range of this species.
Spea hammondii	western spadefoot	-	-	SSC	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Unlikely to occur. Marginally suitable grassland habitat is present within the BSA. There are no vernal pools within the BSA. There are three CNDDB occurrences within 5 miles of the BSA; however, these are located more than 4 miles to the east of the BSA.
Reptiles						
Emys marmorata	western pond turtle	-	-	SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6,000 feet elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.3 mile from water for egg-laying.	Unlikely to occur. Marginally suitable aquatic habitat is present within the BSA in Bear Creek and Paddy Creek. There are no CNDDB occurrences within 5 miles of the BSA.
Thamnophis gigas	giant gartersnake	T	-	-	Agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands in the Central Valley.	Absent. Suitable breeding habitat does not exist in the BSA or within 5 miles. Isolated from potential breeding habitat by urban development.
Birds						
Agelaius tricolor	tricolored blackbird	BCC	T	-	Found in areas near water, such as marshes, grasslands, and wetlands. They require some sort of substrate nearby to build nests. This substrate is often in the form of aquatic vegetation. They also need foraging areas, which can consist of grassland or agricultural pastures such as rice, grain, or alfalfa.	Potential to occur. There is suitable habitat present along canals within the BSA. There are four CNDDB occurrences within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Aquila chrysaetos	golden eagle	-	-	FP	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Unlikely to occur. Suitable habitat is not present. Potential to occur would be limited to flyovers.
Athene cunicularia	burrowing owl	BCC	-	SSC	Open, dry annual or perennial grasslands with low-growing vegetation and on the margins of disturbed/developed habitats. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Potential to occur. Suitable habitat is present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Buteo swainsoni	Swainson's hawk	BCC	T	-	Suitable foraging habitat includes a variety of agriculture crops, grassland, and pasture. Alfalfa fields are more routinely used by foraging Swainson's hawks than any other crop type. Suitable nesting habitat includes trees within mature riparian forest or corridors, lone oak trees and oak groves, and mature roadside trees (man-made structures).	Likely to occur. There is suitable foraging habitat within the BSA throughout the agriculture areas. There are 38 CNDDB occurrences within 5 miles of the BSA.
Coccyzus americanus	yellow-billed cuckoo	T	-	-	Wooded habitat with dense cover and water nearby, including woodlands with low, scrubby, vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes.	Absent. Suitable nesting habitat does not exist in the BSA or within 5 miles. Isolated from potential breeding habitat by urban development.
Elanus leucurus	white-tailed kite	-	-	FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows for foraging close to isolated, dense-topped trees for nesting and perching.	Potential to occur. There is suitable foraging habitat present within the BSA and species is likely to fly over. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Haliaeetus leucocephalus	bald eagle	D	E	FP	Prefer living in areas close to bodies of water, as their favorite prey is fish. They can be found in wetlands, on the coasts, near lakes or rivers, and in marshes. When perching, roosting, and nesting, bald eagles prefer hardwoods, like oak trees, or coniferous, like pine trees. They appear to select trees based on height and sturdiness.	Unlikely to occur. Preferred nesting and foraging habitat are not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Icteria virens	yellow-breasted chat	-	-	SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian area consisting of willow, blackberry, wild grape; forages and nests within 10 feet of ground.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Laterallus jamaicensis coturniculus	California black rail	-	T	FP	Freshwater marshes, wet meadows, and shallow margins of saltwater marshes. Needs water depth of about 1 inch that does not fluctuate during the year and dense vegetation for nesting habitat.	Absent. Suitable nesting habitat does not exist in the BSA or within 5 miles. Isolated from potential breeding habitat by urban development.
Melospiza melodia	song sparrow ("Modesto" population)	-	-	SSC	Endemic to California, residing only in the north-central portion of the Central Valley. Inhabit riparian habitat with moderately dense vegetation to supply cover for nest sites, a source of standing or running water, semi-open canopies to allow light, and exposed ground or leaf litter for foraging.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Riparia riparia	bank swallow	BCC	T	-	Nesting colonies dug into the sides of sandy cliffs or banks or pick them out of mixed swallow flocks as they catch insects over the water.	Potential to occur. Suitable habitat is present within the BSA. There is one CNDDB occurrence within 5 miles of the BSA.
Setophaga petechia	yellow warbler	-	-	SSC	Breed in shrubby thickets and woods, particularly along watercourses and in wetlands. Common trees include willows, alders, and cottonwoods across North America.	Potential to occur. Suitable habitat is present within the BSA. There is one CNDDB occurrence within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		
Vireo bellii pusillus	least Bell's vireo	E	E		Summer resident of southern California in low riparian habitat in vicinity of water or in dry river bottoms; below 2,000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, and mesquite.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Mammals						
Antrozous pallidus	pallid bat	-	-	SSC	Deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Unlikely to occur. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Sylvilagus bachmani riparius	riparian brush rabbit	E	-	-	Riparian areas including dense thickets of wild rose, willows, and blackberries on the San Joaquin River in northern Stanislaus County.	Unlikely to occur. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Taxidea taxus	American badger	-	-	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils, and open, uncultivated ground. Preys on burrowing rodents.	Absent. Suitable habitat requirements are not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Scientific Name	Common Name	Status*			Habitat	Potential for Occurrence in BSA
		Federal	State	CDFW		

*Status designations are as follows:

Federal Designations:

(E) Federally Endangered, (T) Federally Threatened, (C) Candidate, (D) Delisted, (BCC) Bird of Conservation Concern

State Designations:

(E) State Endangered, (T) State Threatened, (CE) Candidate Endangered

California Department of Fish and Wildlife (CDFW) Designations:

(SSC) Species of Special Concern, (FP) Fully Protected, Watch List (WL)

Sources:

California Department of Fish and Wildlife (CDFW). 2023. California Natural Diversity Database, Biogeographic Data Branch. California Department of Fish and Wildlife. Sacramento, CA. Accessed May 3, 2023. https://www.wildlife.ca.gov/data/cnddb.

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Linden (3812111) OR Lockeford (3812122) OR Waterloo (3812112) OR Lodi North (3812123) OR Lodi South (3812113) OR Clay (3812132) OR Goose Creek (3812131) OR Clements (3812121) OR Wallace (3812028) OR Valley Springs SW (3812018) OR Farmington (3712088) OR Peters (3712181) OR Stockton East (3712182) OR Stockton West (3712183) OR Galt (3812133) OR Bruceville (3812134) OR Thornton (3812124) OR Terminous (3812114))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Acipenser medirostris pop. 1 green sturgeon - southern DPS	AFCAA01031	Threatened	None	G2T1	S1	
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S2	SSC
Agrostis hendersonii Henderson's bent grass	PMPOA040K0	None	None	G2Q	S2	3.2
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Andrena blennospermatis Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S1	
Andrena subapasta An andrenid bee	IIHYM35210	None	None	G1G2	S1S2	
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arctostaphylos myrtifolia Ione manzanita	PDERI04240	Threatened	None	G1	S1	1B.2
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Ardea herodias great blue heron	ABNGA04010	None	None	G5	S4	
Astragalus tener var. tener alkali milk-vetch	PDFAB0F8R1	None	None	G2T1	S1	1B.2
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Atriplex cordulata var. cordulata heartscale	PDCHE040B0	None	None	G3T2	S2	1B.2
Blepharizonia plumosa big tarplant	PDAST1C011	None	None	G1G2	S1S2	1B.1
Bombus crotchii Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G2	S2	
Bombus pensylvanicus American bumble bee	IIHYM24260	None	None	G3G4	S2	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Brasenia schreberi watershield	PDCAB01010	None	None	G5	S3	2B.3
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S4	
Calycadenia hooveri Hoover's calycadenia	PDAST1P040	None	None	G2	S2	1B.3
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Castilleja campestris var. succulenta succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
Chloropyron palmatum palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1	1B.1
Cicuta maculata var. bolanderi Bolander's water-hemlock	PDAPI0M051	None	None	G5T4T5	S2?	2B.1
Coastal and Valley Freshwater Marsh Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Delphinium recurvatum recurved larkspur	PDRAN0B1J0	None	None	G2?	S2?	1B.2
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2T3	S3	
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eryngium pinnatisectum Tuolumne button-celery	PDAPI0Z0P0	None	None	G2	S2	1B.2
Eryngium racemosum Delta button-celery	PDAPI0Z0S0	None	Endangered	G1	S1	1B.1
Extriplex joaquinana San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
Falco mexicanus prairie falcon	ABNKD06090	None	None	G5	S4	WL
Gonidea angulata western ridged mussel	IMBIV19010	None	None	G3	S2	
Gratiola heterosepala Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Great Valley Mixed Riparian Forest						
Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
Great Valley Valley Oak Riparian Forest						
Haliaeetus leucocephalus	ABNKC10010	Delisted	Endangered	G5	S3	FP
bald eagle						
Hibiscus lasiocarpos var. occidentalis	PDMAL0H0R3	None	None	G5T3	S3	1B.2
woolly rose-mallow						
Horkelia parryi	PDROS0W0C0	None	None	G2	S2	1B.2
Parry's horkelia						
Hydrochara rickseckeri	IICOL5V010	None	None	G2?	S2?	
Ricksecker's water scavenger beetle						
Hypomesus transpacificus	AFCHB01040	Threatened	Endangered	G1	S1	
Delta smelt						
Icteria virens	ABPBX24010	None	None	G5	S3	SSC
yellow-breasted chat						
Ione Chaparral	CTT37D00CA	None	None	G1	S1.1	
Ione Chaparral						
Juncus leiospermus var. ahartii	PMJUN011L1	None	None	G2T1	S1	1B.2
Ahart's dwarf rush						
Laterallus jamaicensis coturniculus	ABNME03041	None	Threatened	G3T1	S2	FP
California black rail						
Lathyrus jepsonii var. jepsonii	PDFAB250D2	None	None	G5T2	S2	1B.2
Delta tule pea						
Legenere limosa	PDCAM0C010	None	None	G2	S2	1B.1
legenere						
Lepidurus packardi	ICBRA10010	Endangered	None	G4	S3	
vernal pool tadpole shrimp						
Lilaeopsis masonii	PDAPI19030	None	Rare	G2	S2	1B.1
Mason's lilaeopsis						
Limosella australis	PDSCR10030	None	None	G4G5	S2	2B.1
Delta mudwort						
Linderiella occidentalis	ICBRA06010	None	None	G2G3	S2S3	
California linderiella						
Melospiza melodia pop. 1	ABPBXA3013	None	None	G5T3?Q	S3?	SSC
song sparrow ("Modesto" population)						
Mylopharodon conocephalus	AFCJB25010	None	None	G3	S3	SSC
hardhead						
Navarretia myersii ssp. myersii	PDPLM0C0X1	None	None	G2T2	S2	1B.1
pincushion navarretia						
Navarretia paradoxiclara	PDPLM0C150	None	None	G2	S2	1B.3
Patterson's navarretia						

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Nycticorax nycticorax black-crowned night heron	ABNGA11010	None	None	G5	S4	
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Orcuttia viscida Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
Pandion haliaetus osprey	ABNKC01010	None	None	G5	S4	WL
Pogonichthys macrolepidotus Sacramento splittail	AFCJB34020	None	None	G3	S3	SSC
Rana boylii pop. 5 foothill yellow-legged frog - south Sierra DPS	AAABH01055	Proposed Endangered	Endangered	G3T2	S2	
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S3	
Sagittaria sanfordii Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
Scutellaria galericulata marsh skullcap	PDLAM1U0J0	None	None	G5	S2	2B.2
Scutellaria lateriflora side-flowering skullcap	PDLAM1U0Q0	None	None	G5	S2	2B.2
Setophaga petechia yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
Spea hammondii western spadefoot	AAABF02020	None	None	G2G3	S3S4	SSC
Spirinchus thaleichthys longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
Sylvilagus bachmani riparius riparian brush rabbit	AMAEB01021	Endangered	Endangered	G5T1	S1	
Symphyotrichum lentum Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis gigas giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
Trifolium hydrophilum saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Tuctoria greenei Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S3	
least Bell's vireo						

Record Count: 82

CNPS Rare Plant Inventory

California Native Plant Society

Search Results

39 matches found. Click on scientific name for details

Search Criteria: Quad is one of
[**3812111:3812122:3812112:3812123:3812132:3812131:3812121:3812028:3812018:3712088:3712181:3712182:3712183:3812113:3812133:3812134:3812124:3812114**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED
Agrostis hendersonii	Henderson's bent grass	Poaceae	annual herb	Apr-Jun	None	None	G2Q	S2	3.2		1974-01-01
Arctostaphylos myrtifolia	Ione manzanita	Ericaceae	perennial evergreen shrub	Nov-Mar	FT	None	G1	S1	1B.2	Yes	1974-01-01
Astragalus tener var. *tener*	alkali milk-vetch	Fabaceae	annual herb	Mar-Jun	None	None	G2T1	S1	1B.2	Yes	1994-01-01
Atriplex cordulata var. *cordulata*	heartscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G3T2	S2	1B.2	Yes	1988-01-01
Azolla microphylla	Mexican mosquito fern	Azollaceae	annual/perennial herb	Aug	None	None	G5	S4	4.2		1994-01-01
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	None	None	G1G2	S1S2	1B.1	Yes	1994-01-01
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	None	None	G5	S3	2B.3		2010-10-27
Brodiaea rosea ssp. *vallicola*	valley brodiaea	Themidaceae	perennial bulbiferous herb	Apr-May(Jun)	None	None	G5T3	S3	4.2	Yes	2019-01-07
Calycadenia hooveri	Hoover's calycadenia	Asteraceae	annual herb	Jul-Sep	None	None	G2	S2	1B.3	Yes	1980-01-01
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	None	None	G5	S2	2B.1		1994-01-01
Castilleja campestris var. *succulenta*	succulent owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	(Mar)Apr-May	FT	CE	G4?T2T3	S2S3	1B.2	Yes	1984-01-01
Centromadia parryi ssp. *rudis*	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	None	None	G3T3	S3	4.2	Yes	2007-05-22
Chloropyron palmatum	palmate-bracted bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct	FE	CE	G1	S1	1B.1	Yes	1974-01-01
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	None	None	G5T4T5	S2?	2B.1		1974-01-01
Delphinium recurvatum	recurved larkspur	Ranunculaceae	perennial herb	Mar-Jun	None	None	G2?	S2?	1B.2	Yes	1988-01-01
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	None	None	GU	S2	2B.2		1980-01-01
Eryngium pinnatisectum	Tuolumne button-celery	Apiaceae	annual/perennial herb	May-Aug	None	None	G2	S2	1B.2	Yes	1974-01-01

Eryngium racemosum	Delta button-celery	Apiaceae	annual/perennial herb	(May)Jun-Oct	None	CE	G1	S1	1B.1	Yes	1974-01-01
Extriplex joaquinana	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G2	S2	1B.2	Yes	1988-01-01
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	Apr-Aug	None	CE	G2	S2	1B.2		1974-01-01
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	None	None	G3	S3	4.2	Yes	2001-01-01
Hibiscus lasiocarpos var. *occidentalis*	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	None	None	G5T3	S3	1B.2	Yes	1974-01-01
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	Apr-Sep	None	None	G2	S2	1B.2	Yes	1974-01-01
Juncus leiospermus var. *ahartii*	Ahart's dwarf rush	Juncaceae	annual herb	Mar-May	None	None	G2T1	S1	1B.2	Yes	1984-01-01
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	Feb-May	None	None	G3	S3	4.2	Yes	2001-01-01
Lathyrus jepsonii var. *jepsonii*	Delta tule pea	Fabaceae	perennial herb	May-Jul(Aug-Sep)	None	None	G5T2	S2	1B.2	Yes	1974-01-01
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.1	Yes	1974-01-01
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	None	CR	G2	S2	1B.1	Yes	1974-01-01
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	May-Aug	None	None	G4G5	S2	2B.1		1994-01-01
Navarretia myersii ssp. *myersii*	pincushion navarretia	Polemoniaceae	annual herb	Apr-May	None	None	G2T2	S2	1B.1	Yes	1994-01-01
Navarretia paradoxiclara	Patterson's navarretia	Polemoniaceae	annual herb	May-Jun(Jul)	None	None	G2	S2	1B.3	Yes	2016-04-27
Orcuttia viscida	Sacramento Orcutt grass	Poaceae	annual herb	Apr-Jul(Sep)	FE	CE	G1	S1	1B.1	Yes	1974-01-01
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	None	None	G4	S3	4.2		1974-01-01
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984-01-01
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Sep	None	None	G5	S2	2B.2		1994-01-01
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	Jul-Sep	None	None	G5	S2	2B.2		1994-01-01
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May-Nov	None	None	G2	S2	1B.2	Yes	1974-01-01
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	2001-01-01
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	FE	CR	G1	S1	1B.1	Yes	1974-01-01

Showing 1 to 39 of 39 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 3 May 2023].

Marek, Mia

From: Marek, Mia
Sent: Wednesday, May 3, 2023 10:33 AM
To: nmfs.wcrca.specieslist@noaa.gov
Subject: Official Species List - Linden, Lockeford, Waterloo, and Lodi North

Hello, my name is Mia Marek and I am a biologist with Jacobs Engineering in Oakland, CA. I am requesting an official species list for the Northern San Joaquin 230 kV Transmission Project, which will provide a new 230 kV transmission system in northern San Joaquin County, in central California. I have copied and pasted the search results for a query I ran for the Linden, Lockeford, Waterloo, and Lodi North quadrants where the project is located. Below, you will find the results.

Quad Name **Linden**
Quad Number **38121-A1**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - **X**
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - **X**
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -
Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - **X**
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office
562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Quad Name **Waterloo**
Quad Number **38121-A2**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - X
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - X
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -
Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - X
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Quad Name **Lodi North**
Quad Number **38121-B3**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - X
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - X
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -

Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - **X**
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office
562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Mia Marek, M.A.
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Pronouns: she/her

I respectfully acknowledge that we live and work on the traditional, ancestral & unceded land of Indigenous Peoples.
Whose land are you on?

Attachment B
Species Lists

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

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Project information

NAME

Northern San Joaquin 230 kV Transmission Project

LOCATION

San Joaquin County, California



DESCRIPTION

Some(new 230 kV transmission system)

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

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Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Riparian Brush Rabbit Sylvilagus bachmani riparius Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6189	Endangered

Birds

NAME	STATUS
Yellow-billed Cuckoo Coccyzus americanus There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Tiger Salamander Ambystoma californiense There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

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Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus — Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/7850

Crustaceans

NAME	STATUS

Conservancy Fairy Shrimp Branchinecta conservatio — Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/8246

Vernal Pool Fairy Shrimp Branchinecta lynchi — Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/498

Vernal Pool Tadpole Shrimp Lepidurus packardi — Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/2246

Flowering Plants

NAME	STATUS

Fleshy Owl's-clover Castilleja campestris ssp. succulenta — Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/8095

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your

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list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird Selasphorus sasin This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
Belding's Savannah Sparrow Passerculus sandwichensis beldingi This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Bullock's Oriole Icterus bullockii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull Larus californicus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
California Thrasher Toxostoma redivivum This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Common Yellowthroat Geothlypis trichas sinuosa This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084	Breeds May 20 to Jul 31

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Lawrence's Goldfinch Carduelis lawrencei — Breeds Mar 20 to Sep 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9464

Nuttall's Woodpecker Picoides nuttallii — Breeds Apr 1 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus — Breeds Mar 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656

Olive-sided Flycatcher Contopus cooperi — Breeds May 20 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3914

Tricolored Blackbird Agelaius tricolor — Breeds Mar 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3910

Wrentit Chamaea fasciata — Breeds Mar 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Yellow-billed Magpie Pica nuttalli — Breeds Apr 1 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9726

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Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

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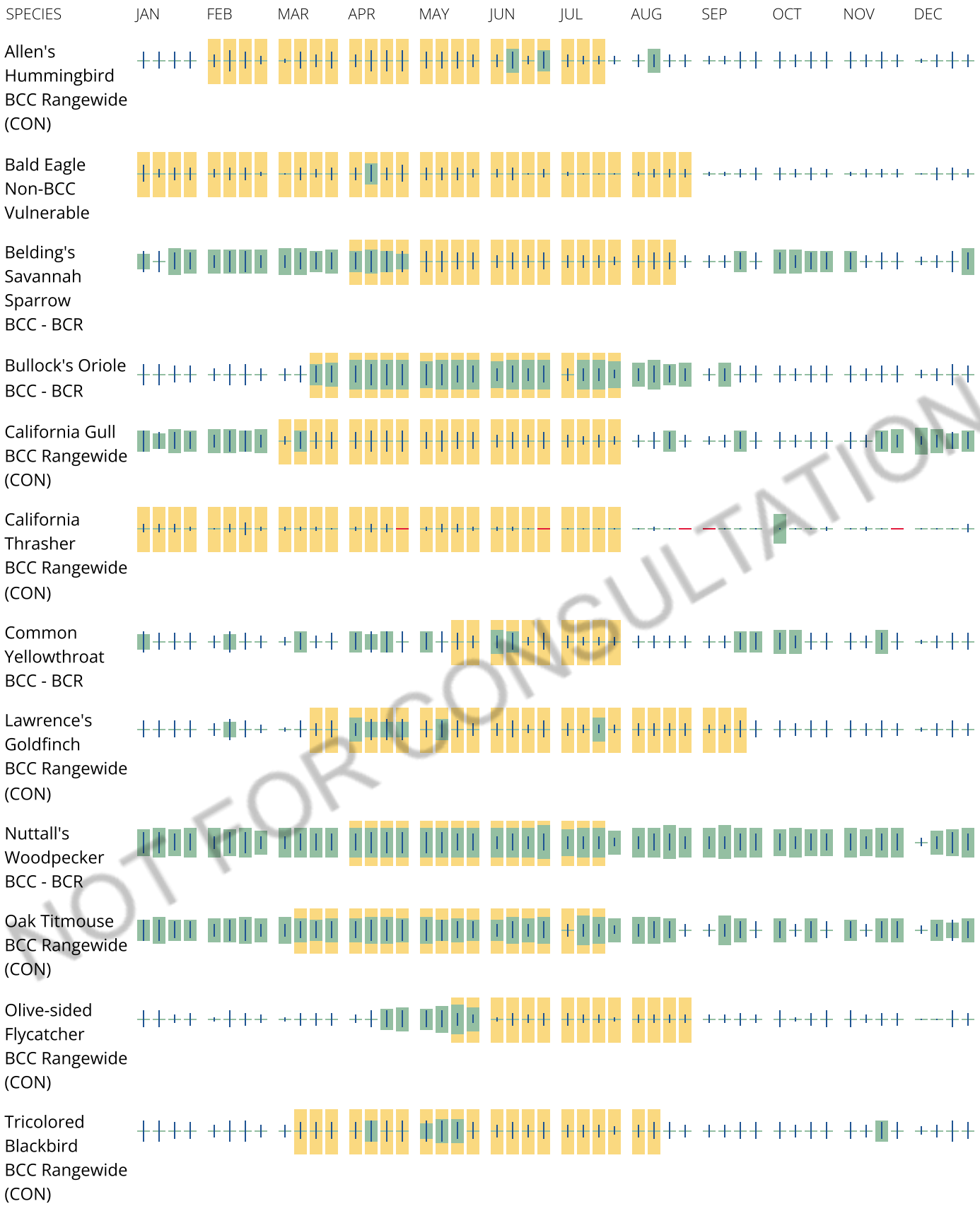
▪ probability of presence ▪ breeding season | survey effort – no data



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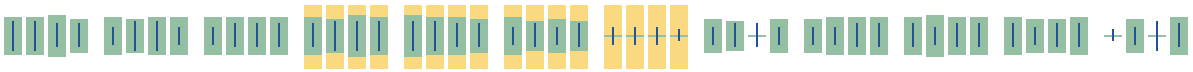
Yellow-billed Magpie
BCC Rangewide (CON)



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird

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on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is

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the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Wetland information is not available at this time

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This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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Appendix C4
Species Table

APPENDIX C4 – SPECIAL-STATUS SPECIES TABLES

The special-status species tables have been divided into plants (Table 1) and wildlife (Table 2).

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Agrostis hendersonii	Henderson's bent grass	-	-	3.2	Valley and foothill grassland (mesic) and vernal pools.	Apr-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Arctostaphylos myrtifolia	Ione manzanita	T	-	1B.2	Chaparral and cismontane woodland.	Nov-Mar	Absent. No suitable habitat is present within the BSA.
Astragalus tener var. tener	alkali milk vetch	-	-	1B.2	Alkali playa, valley and foothill grassland, vernal pools. Low ground, alkali flats, and flooded lands. In annual grassland or in playas or vernal pools.	Mar-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA, as do alkali flats. There is one historic occurrence in Stockton, but the BSA does not have alkali resources or vernal pools for this species to grow (Calflora 2022).
Atriplex cordulata var. cordulata	heartscale	-	-	1B.2	Saline soils, Alkaline scrub, Chenopod scrub, meadows and seeps, valley and foothill grassland.	Apr-Oct	Unlikely to occur. Scrub habitat is not present in the BSA, and although there are historic occurrences in the 'Stockton West' quad (Calflora 2022), suitable habitat has predominately been converted to agricultural development.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
							Additionally, saline soils suitable for this species are not present in the BSA.
Azolla microphylla	Mexican mosquito fern	-	-	4.2	Marshes and swamps (ponds, slow water).	Aug	Absent. Marshes and swamps are not present in the BSA.
Blepharizonia plumosa	big tarplant	-	-	1B.1	Dry hills and plains in annual grassland. Clay to clay-loam soils; usually on slopes and often in burned areas.	Jul-Oct	Unlikely to occur. Calflora search results indicate a confirmed range within the BSA and one occurrence in the 'Stockton west' quad (Calflora 2022). However, suitable habitat such as slopes and burned areas are not present. Additionally, increasing agricultural development and urbanization has severely limited suitable habitat of this species.
Brasenia schreberi	watershield	-	-	2B.3	Marshes and swamps (freshwater). This plant is strictly aquatic.	Jun-Sep	Absent. Marshes and swamps are not present in the BSA.
Brodiaea rosea	valley brodiaea	-	-	4.2	Old alluvial terraces; silty, sandy, and gravelly loam. Valley and foothill grassland (swales) and vernal pools.	Apr-May (Jun)	Unlikely to occur. Calflora search results indicate a confirmed range within the project site area and an occurrence in the 'Clements' quad (Calflora 2022). However, suitable habitat has predominately been converted to vineyards and orchards which does not support habitat requirements of this species.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Calycadenia hooveri	Hoover's calycadenia	-	-	1B.3	Cismontane woodland and valley and foothill grassland.	Jul-Sep	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Carex comosa	bristly sedge	-	-	2B.1	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grassland.	May-Sep	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Castilleja campestris var. succulenta	succulent owl's-clover	T	E	1B.2	Occurs usually in wetlands, occasionally in non-wetlands. Habitat is vernal pools (often acidic). Occurs in vernal pools with a variety of characteristics including small and large pools, bowl-shaped pools and swales, shallow and deep pools, and pools with short and long inundation periods. Vegetation communities include: valley grassland, foothill grassland, freshwater wetlands, wetland-riparian.	(Mar)Apr-May	Potential to occur. Although there are no CNDDB occurrences within 5 miles of the BSA, a reconnaissance survey conducted in early December of 2019 and an aquatic resources delineation conducted in April and May of 2021 indicated the presence of wetland features in portions of the BSA that could provide suitable habitat for this species. This species was not found during appropriately timed botanical surveys.
Centromadia parryi ssp. rudis	Parry's rough tarplant	-	-	4.2	Occurs in alkaline and vernally mesic soils in seeps, valley and foothill grassland, vernal pools, and sometimes roadsides.	May-Oct	Unlikely to occur. The BSA does not have alkali resources for this species to grow and there are no CNDDB occurrences within 5 miles of the BSA.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Chloropyron palmatum	palmate-bracted bird's-beak	E	E	1B.1	Occurs in alkaline soils, grows in saline-alkaline soils in seasonally flooded lowland plains and basins at elevations of less than 500 feet. Associated plant species include iodine bush (*Allenrolfea occidentalis*), alkali heath (*Frankenia salina*), Great Valley gum plant (*Grindelia camporum*), and Parry's rough tarplant (*Centromadia parryi ssp.rudis*). Vegetation communities include: chenopod scrub, valley grassland, foothill grassland.	May-Oct	Absent. No suitable habitat is present within the BSA.
Cicuta maculata var. bolanderi	Bolander's water-hemlock	-	-	2B.1	Marshes and swamps (brackish, coastal, freshwater).	Jul-Sep	Absent. No marshes or swamps are present within the BSA.
Delphinium recurvatum	recurved larkspur	-	-	1B.2	Chenopod scrub, valley and foothill grassland, cismontane woodland. On alkaline soils; often in valley saltbrush or valley chenopod scrub.	Mar-Jun	Absent. Calflora search results indicate a possible range within the BSA and an occurrence in the 'Stockton East' quad (Calflora 2022). However, no suitable habitat or a confirmed range overlap is present.
Downingia pusilla	dwarf downingia	-	-	2B.2	Occurs in wetlands. Habitat is vernal pools (no acidic preference) and wet ditches. Vegetation communities include: foothill woodland, valley	Mar-May	Unlikely to occur. Calflora search results indicate a possible range within the project site area, an occurrence in the 'Stockton East' quad, and the possible occurrence of

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
					grassland, freshwater wetlands, wetland-riparian.		suitable habitat. However, there are no CNDDB occurrences within 5 miles of the BSA. Rare plant surveys need to be conducted to verify the presence or absence of this species.
Eryngium pinnatisectum	Tuolumne button-celery	-	-	1B.2	Cismontane woodland, lower montane coniferous forest, and vernal pools.	May-Aug	Absent. No suitable habitat is present within the BSA.
Eryngium racemosum	Delta button-celery	-	E	1B.1	Riparian scrub. Seasonally inundated floodplains on clay.	Jun-Oct	Absent. Riparian scrub and floodplains do not exist in the BSA.
Extriplex joaquinana	San Joaquin spearscale	-	-	1B.2	Alkaline soils, chenopod scrub. meadows and seeps, playas, valley and foothill grassland.	Apr-Oct	Unlikely to occur. There is only marginally suitable habitat present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Gratiola heterosepala	Boggs Lake hedge-hyssop	-	E	1B.2	Found predominately growing in clay soils, marshes and swamps (lake margins). Vernal pools.	Apr-Aug	Absent. Marshes and swamps do not occur in the BSA. Additionally, the closest extant populations of this species occur in Solano and Sacramento counties (Calflora 2022).
Hesperevax caulescens	hogwallow starfish	-	-	4.2	Valley and foothill grassland (mesic clay) and vernal pools (shallow)	Mar-Jun	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Hibiscus lasiocarpos var. occidentalis	wooly rose-mallow	-	-	1B.2	Marshes and swamps (freshwater). Moist, freshwater-soaked river banks and low peat islands in sloughs; can also occur on riprap and levees.	Jun-Sep	Absent. Marshes and swamps are not present in the BSA.
Horkelia parryi	Parry's horkelia	-	-	1B.2	Chaparral and cismontane woodland.	Apr-Sep	Absent. No suitable habitat is present within the BSA.
Juncus leiospermus var. ahartii	Ahart's dwarf rush	-	-	1B.2	Valley and foothill grassland (mesic).	Mar-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Lasthenia ferrisiae	Ferris' goldfields	-	-	4.2	Vernal pools (alkaline, clay).	Feb-May	Absent. No suitable habitat is present within the BSA.
Lathyrus jepsonii var. jepsonii	delta tule pea	-	-	1B.2	Found in freshwater and brackish marshes; most often in ditches and along levees near Napa. Often found with *Typha*, *Aster lentus*, *Rosa californica*, *Juncus* spp., *Scripus* spp., etc. Usually on marsh and slough edges.	May-Jul	Absent. The closest recorded observations of this species occur in western Lodi and Stockton (Calflora 2022), however, suitable habitat such as marshland sloughs are not present in the BSA.
Legenere limosa	legenere	-	-	1B.1	Occurs below elevations of 610 meters in vernal pools and wetlands. Vegetation communities include: valley grassland, freshwater wetlands, wetland-riparian.	Apr-Jun	Unlikely to occur. There is only marginally suitable wetland habitat present in the BSA. There are no CNDDDB occurrences within 5 miles of the BSA.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
Lilaeopsis masonii	Mason's lilaeopsis	-	R	1B.1	Found in freshwater and brackish marshes and in riparian scrub habitats; found along the margins of Napa River	Apr-Nov	Absent. This species grows predominately along the margins of Napa River (Calflora 2022).
Limosella australis	Delta mudwort	-	-	2B.1	Marshes and swamps (brackish, freshwater) and riparian scrub.	May-Aug	Absent. No suitable habitat is present within the BSA.
Navarretia myersii ssp. myersii	pincushion navarretia	-	-	1B.1	Vernal pools. Clay soils within non-native grassland.	Apr-May	Absent. This species predominantly occurs in the foothill grasslands of the Sierra Nevada (Calflora 2022).
Navarretia paradoxiclara	Patterson's navarretia	-	-	1B.3	Meadows and seeps.	May-Jun(Jul)	Absent. No suitable habitat is present within the BSA.
Orcuttia viscida	Sacramento Orcutt grass	E	E	1B.2	Occurs in wetlands. Habitat is vernal pools (often acidic). Vegetation communities include: valley grassland, freshwater wetlands, wetland-riparian.	Apr-Jul(Sep)	Absent. The closest extant populations occur in Placer, Sacramento, and El Dorado Counties outside of the BSA (Calflora 2022).
Ranunculus lobbii	Lobb's aquatic buttercup	-	-	4.2	Cismontane woodland, north Coast coniferous forest, valley and foothill grassland, and vernal pools.	Feb-May	Unlikely to occur. Low quality, disturbed, and ruderal grassland exists throughout the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Sagittaria sanfordii	Sanford's arrowhead	-	-	1B.2	Occurs in wetlands, marshes and swamps (assorted shallow freshwater). Vegetation communities include freshwater wetlands, wetland-riparian.	May-Oct(Nov)	Potential to occur. Marginally suitable habitat is present in the BSA adjacent to aquatic resources such as creeks, canals, and ditches. There is one CNDDB occurrence within 5 miles of the BSA. The species was

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			
							not observed during appropriately timed botanical surveys.
Scutellaria galericulata	marsh skullcap	-	-	2B.2	Lower montane coniferous forest, meadows and seeps (mesic), and marshes and swamps.	Jun-Sep	Absent. No suitable habitat is present within the BSA.
Scutellaria lateriflora	side-flowering skullcap	-	-	2B.2	Meadows and seeps (mesic) and marshes and swamps.	Jul-Sep	Absent. No suitable habitat is present within the BSA.
Symphyotrichum lentum	Suisun marsh aster	-	-	1B.2	Found in brackish and freshwater marshes and swamps. Most often seen along sloughs with *Phragmites, Scripus, Rubus, Typha*, etc.	May-Nov	Unlikely to occur. Calflora search results indicate occurrences in the 'Stockton West', 'Stockton East', and 'Lodi South' quads (Calflora 2022). However, marshes and swamps are not present in the BSA.
Trifolium hydrophilum	saline clover	-	-	1B.2	Occurs in marshes and swamps, vernal pools and valley and foothill grassland. Mesic, alkaline sites.	Apr-Jun	Absent. Most recent observations of this species are within the Suisun and San Pablo bays (Calflora 2022). Suitable habitat is not considered present in the BSA.
Tuctoria greenei	Greene's Tuctoria	E	R	1B.1	Vernal pools.	May-Jul(Sep)	Absent. This species has recorded occurrences in Stockton and Farmington in 1936 (Calflora 2022). However, this species is considered extirpated from the BSA because of increased agricultural development and urbanization.

Table 1. Special-Status Plant Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Blooming Period	Potential for Occurrence within the BSA
		Federal	State	CNPS			

[a]Status designations are as follows:
Federal Designations:
(E) Federally Endangered; (T) Federally Threatened
State Designations:
(E) State Endangered; (R) Rare
California Native Plant Society (CNPS) California Rare Plant Rank (CRPR):
(1A) Presumed extinct in California
(1B) Rare, threatened, or endangered in California and elsewhere
(2B) Rare, threatened, or endangered in California, but more common elsewhere
(3) More information is needed
(4) Limited distribution
Threat Rank:
0.1 Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat)
0.2 Moderately threatened in California (20 to 80% of occurrences threatened/moderate degree and immediacy of threat)
0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)
Sources:
California Department of Fish and Wildlife (CDFW). 2023. California Natural Diversity Database, Biogeographic Data Branch. California Department of Fish and Wildlife. Sacramento, CA. Accessed May 3, 2023. https://www.wildlife.ca.gov/data/cnddb.
California Native Plant Society (CNPS). 2023. Online Inventory of Rare, Threatened and Endangered Plants of California. Accessed May 3, 2023. http://www.rareplants.cnps.org/advanced.html
California Native Plant Society Calflora Database (Calflora). 2022. "'What Grows Here' online application for documented ranges and occurrences of rare and endangered plants of California." Accessed August 29, 2022. https://www.calflora.org/.
U.S. Fish and Wildlife Service (USFWS). 2023. Environmental Conservation Online System: Information, Planning and Conservation System (IPaC), 2023. Accessed May 3, 2023. https://ecos.fws.gov/ipac/.

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
Invertebrates						
Bombus crotchii	Crotch bumble bee	-	CE	-	Range extends from coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Eriogonum*.	Unlikely to occur. Habitat for this species, including annual grassland, small mammal burrows, and floral host plants, occurs within the BSA. However, the species is thought to be absent from much of its historic range in the Central Valley (Hatfield et. al. 2014). Additionally, current land use in the BSA has degraded potential habitat to very low quality.
Branchinecta conservatio	Conservancy fairy Shrimp	E	-	-	Endemic to the grasslands of the central valley, central coast mountains, and south coast mountains in rain-filled vernal pools and swales.	Unlikely to occur. Suitable vernal pool habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA, and per the most recent 5-year review of the species, the closest known population is greater than 20 miles away (USFWS 2012). Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
						and are no longer considered suitable habitat.
Branchinecta lynchi	vernal pool fairy shrimp	T	-	-	Endemic to the grasslands of the central valley, central coast mountains, and south coast mountains in rain-filled vernal pools and swales.	Unlikely to occur. Suitable vernal pool and swale habitat is not present within the BSA. There is one CNDDB occurrence (#925) within 5 miles of the BSA. This occurrence is located within known vernal pools 4 miles east of the BSA and is separated from the BSA by at least 1.8 miles of crop agriculture. This species has been known to occur in roadside ditches and similar areas, but this is often in proximity to higher quality vernal pool habitat. In addition, no roadside ditches or swales will be affected by project activities. Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard and are no longer considered suitable habitat.
Desmocerus californicus dimorphus	valley elderberry	T	-	-	Valley elderberry longhorn beetles are found in riparian habitat only in the	Potential to occur. Host plant, elderberry (*Sambucus* sp.) occurs

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
	longhorn beetle				vicinity of their host plant, the elderberry (*Sambucus* species).	in the BSA. There are five CNDDB occurrences within 5 miles of the BSA.
Lepidurus packardi	vernal pool tadpole shrimp	E	-	-	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools. Commonly found in grass-bottomed swales of unplowed grasslands. Some pools are mud-bottomed and highly turbid.	Unlikely to occur. Suitable vernal pool and swale habitat is not present within the BSA. There is one CNDDB occurrence (#210) within 5 miles of the BSA. This occurrence has no location or ecological setting details and is based on one specimen collected in 1990. Aerial imagery indicates that aside from the Mokelumne River, the occurrence area has been nearly entirely converted to crop agriculture, which is not suitable habitat for this species. Per the PG&E SJVHCP, the only 'habitat areas' that would be suitable for this species are potential vernal pools at the eastern portion of the project (PG&E 2006). These areas have been converted to vineyard and are no longer considered suitable habitat.
Fish						

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
Acipenser medirostris	Green sturgeon – southern DPS	T	-	-	Spawns in the Sacramento, Feather, and Yuba Rivers. Presence in upper Stanislaus and San Joaquin Rivers may indicate spawning. Non-spawning adults occupy marine/estuarine waters. The San Francisco Estuary is important for rearing juveniles.	Absent. Suitable habitat is not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Hypomesus transpacificus	delta smelt	T	E	-	Sacramento-San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait, and San Pablo Bay. Seldom found at salinities > 10 ppt. Most often at salinities <2 ppt.	Absent. Suitable habitat is not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	T	-	-	7 inches is the minimum depth required for successful migration of adult steelhead although the distance fish must travel through shallow water areas is also a critical factor. Spawning ranges from 6 to 24 inches with an average of 14 inches. Substrates from 0.2 to 4.0 inches in diameter. Temperature requirement of 39 to 52°F.	Unlikely to occur. There is only marginally suitable habitat in the BSA within Bear Creek and Paddy Creek. There are two CNDDB occurrences within 5 miles of the BSA within large rivers including Mokelumne River and Lower Calaveras River.
Pogonichthys macrolepidotus	Sacramento splittail	-	-	SSC	Estuarine habitat. Requires a rising hydrograph for upstream migration and flooded vegetation for spawning and rearing areas.	Unlikely to occur. There is marginally suitable habitat in the BSA within Bear Creek and Paddy Creek. There is one CNDDB occurrence within 5 miles of the BSA in the lower Mokelumne River.

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
Spirinchus thaleichthys	longfin smelt	C	T	-	Euryhaline, nektonic, and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Absent. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Amphibians						
Ambystoma californiense	California tiger salamander	T	T	WL	Central Valley DPS federally listed as threatened. Santa Barbara and Sonoma Counties DPS federally listed as endangered. Need underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding.	Unlikely to occur. There are four CNDDB occurrences within 5 miles of the BSA; however, these have been within known vernal pool habitat. Vernal pools are not present within the BSA. Two CNDDB occurrences are historic (#280 from 1973, #289 from 1925). Aerial imagery indicates that natural habitat at these two locations has largely been converted to agriculture since the observations, and these areas are no longer suitable habitat for the species. Occurrence #547 (2002) is approximately 3 miles north of the BSA, separated from the BSA by at least three major roads and land cover entirely converted to crop agriculture, which is not suitable habitat for the species. Occurrence #882 (2008) is

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
						approximately 4 miles northeast of the BSA and is also separated from the BSA by at least two major roads, and a span of approximately 2 miles of crop agriculture. There are no suitable migratory corridors from known vernal pool habitat to the BSA, and the nearest potential habitat from the BSA is outside of their known dispersal range. There are no "wildlife occurrences" of CTS within the BSA per the SJVHCP (PG&E 2006).
Rana boylii	foothill yellow-legged frog	-	E	SSC	Partly shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis.	Unlikely to occur. There is suitable habitat within Mokelumne River; however, this is outside of the BSA and separated from the project footprint by urban development. There are no CNDDB occurrences within 5 miles of the BSA.
Rana draytonii	California red-legged frog	T	-	SSC	Variety of habitat elements with aquatic breeding areas embedded within a matrix of riparian and upland dispersal habitats. Breeding sites of the California red-legged frog are in aquatic habitats including pools and backwaters within streams and creeks, ponds, marshes,	Unlikely to occur. There is only marginally suitable habitat within ponding areas of Bear Creek and adjacent upland dispersal areas. There are no CNDDB occurrences within 5 miles of the BSA and the BSA is approximately 16 miles

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
					springs, sag ponds, dune ponds and lagoons.	outside of the USFWS's mapped current range of this species.
Spea hammondii	western spadefoot	-	-	SSC	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Unlikely to occur. Marginally suitable grassland habitat is present within the BSA. There are no vernal pools within the BSA. There are three CNDDB occurrences within 5 miles of the BSA; however, these are located over 4 miles to the east of the BSA.
Reptiles						
Emys marmorata	western pond turtle	-	-	SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6,000 feet elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.3 mile from water for egg-laying.	Unlikely to occur. Marginally suitable aquatic habitat is present within the BSA in Bear Creek and Paddy Creek. There are no CNDDB occurrences within 5 miles of the BSA.
Thamnophis gigas	giant gartersnake	T	-	-	Agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands in the Central Valley.	Absent. Suitable breeding habitat does not exist in the BSA or within 5 miles. Isolated from potential breeding habitat by urban development.
Birds						
Agelaius tricolor	tricolored blackbird	BCC	T	SSC	Found in areas near water, such as marshes, grasslands, and wetlands. They require some sort of substrate nearby to build nests. This substrate is	Potential to occur. There is suitable nesting habitat present along canals and creeks within the BSA, and suitable foraging habitat

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
					often in the form of aquatic vegetation. They also need foraging areas, which can consist of grassland or agricultural pastures such as rice, grain, or alfalfa.	in grassland habitats and agricultural areas. There are four CNDDB occurrences within 5 miles of the BSA.
Aquila chrysaetos	golden eagle	-	-	FP	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Unlikely to occur. Suitable habitat is not present. Potential to occur would be limited to fly overs.
Athene cunicularia	burrowing owl	BCC	-	SSC	Open, dry annual or perennial grasslands with low-growing vegetation and on the margins of disturbed/developed habitats. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Potential to occur. Suitable habitat is present in the BSA, including burrows along the margins of vineyards, orchards, and other agricultural developments. There are no CNDDB occurrences within 5 miles of the BSA.
Buteo swainsoni	Swainson's hawk	BCC	T	-	Suitable foraging habitat includes a variety of agriculture crops, grassland, and pasture. Alfalfa fields are more routinely used by foraging Swainson's hawks than any other crop type. Suitable nesting habitat includes trees within mature riparian forest or corridors, lone oak trees and oak groves, and mature roadside trees (man-made structures).	Likely to occur. There is suitable nesting and foraging habitat within the BSA in tall emergent trees and throughout agriculture areas. There are 38 CNDDB occurrences within 5 miles of the BSA.
Coccyzus americanus	yellow-billed cuckoo	T	-	-	Wooded habitat with dense cover and water nearby, including woodlands with	Absent. Suitable nesting habitat does not exist in the BSA or within

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
					low, scrubby, vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes.	5 miles. Isolated from potential breeding habitat by urban development.
Elanus leucurus	white-tailed kite	-	-	FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows for foraging close to isolated, dense-topped trees for nesting and perching.	Potential to occur. There is suitable foraging and nesting habitat present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.
Haliaeetus leucocephalus	bald eagle	D	E	FP	Prefer living in areas close to bodies of water, as their favorite prey is fish. They can be found in wetlands, on the coasts, near lakes or rivers, and in marshes. When perching, roosting, and nesting, bald eagles prefer hardwoods, like oak trees, or coniferous, like pine trees. They appear to select trees based on height and sturdiness.	Unlikely to occur. Preferred nesting and foraging habitat are not present in the BSA. There are no CNDDB occurrences within 5 miles of the BSA; however, this species is often not reported to CNDDB.
Icteria virens	yellow-breasted chat	-	-	SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 feet of ground.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Laterallus jamaicensis coturniculus	California black rail	-	T	FP	Freshwater marshes, wet meadows, and shallow margins of saltwater marshes. Needs water depth of about 1 inch that	Absent. Suitable nesting habitat does not exist in the BSA or within 5 miles. Isolated from potential

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
					does not fluctuate during the year and dense vegetation for nesting habitat.	breeding habitat by urban development.
Melospiza melodia	song sparrow ("Modesto" population)	-	-	SSC	Endemic to California, residing only in the north-central portion of the Central Valley. Inhabit riparian habitat with moderately dense vegetation to supply cover for nest sites, a source of standing or running water, semi-open canopies to allow light, and exposed ground or leaf litter for foraging.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Riparia riparia	bank swallow	BCC	T	-	Nesting colonies dug into the sides of sandy cliffs or banks or pick them out of mixed swallow flocks as they catch insects over the water.	Potential to occur. Suitable foraging habitat is present within the BSA along natural and constructed watercourses. There is one CNDDB occurrence within 5 miles of the BSA.
Setophaga petechia	yellow warbler	-	-	SSC	Breed in shrubby thickets and woods, particularly along watercourses and in wetlands. Common trees include willows, alders, and cottonwoods across North America.	Potential to occur. Suitable foraging and nesting habitat are present within the BSA. There is one CNDDB occurrence within 5 miles of the BSA.
Vireo bellii pusillus	least Bell's vireo	E	E		Summer resident of southern California in low riparian habitat in vicinity of water or in dry river bottoms; below 2,000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, and mesquite.	Unlikely to occur. Riparian habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Mammals						

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		
Antrozous pallidus	pallid bat	-	-	SSC	Deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Unlikely to occur. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Sylvilagus bachmani riparius	riparian brush rabbit	E	-	-	Riparian areas including dense thickets of wild rose, willows, and blackberries on the San Joaquin River in northern Stanislaus County.	Unlikely to occur. Suitable habitat is not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.
Taxidea taxus	American badger	-	-	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents.	Absent. Suitable habitat requirements are not present within the BSA. There are no CNDDB occurrences within 5 miles of the BSA.

[a]Status designations are as follows:
Federal Designations:
(E) Federally Endangered, (T) Federally Threatened, (C) Candidate, (D) Delisted, (BCC) Bird of Conservation Concern
State Designations:
(E) State Endangered, (T) State Threatened, (CE) Candidate Endangered
California Department of Fish and Wildlife (CDFW) Designations:
(SSC) Species of Special Concern, (FP) Fully Protected, Watch List (WL)
Sources:

Table 2. Special-Status Wildlife Species Identified in Records Searches

Scientific Name	Common Name	Status[a]			Habitat	Likelihood of Presence in BSA
		Federal	State	CDFW		

California Department of Fish and Wildlife (CDFW). 2023. California Natural Diversity Database, Biogeographic Data Branch. California Department of Fish and Wildlife. Sacramento, CA. Accessed May 3, 2023. https://www.wildlife.ca.gov/data/cnddb.

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NOAA Fisheries. 2023. Queried for endangered and threatened species within quadrangles of the project location. Accessed May 3, 2023. https://archive.fisheries.noaa.gov/wcr/maps_data/california_species_list_tools.html

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U.S. Fish and Wildlife Service (USFWS). 2012. Conservancy Fairy Shrimp (*Branchinecta conservation*) 5-Year Review: Summary and Evaluation. Accessed June 29, 2023. https://ecos.fws.gov/docs/five_year_review/doc4012.pdf.

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Appendix C5
Species List

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Linden (3812111) OR Lockeford (3812122) OR Waterloo (3812112) OR Lodi North (3812123) OR Lodi South (3812113) OR Clay (3812132) OR Goose Creek (3812131) OR Clements (3812121) OR Wallace (3812028) OR Valley Springs SW (3812018) OR Farmington (3712088) OR Peters (3712181) OR Stockton East (3712182) OR Stockton West (3712183) OR Galt (3812133) OR Bruceville (3812134) OR Thornton (3812124) OR Terminous (3812114))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Acipenser medirostris pop. 1 green sturgeon - southern DPS	AFCAA01031	Threatened	None	G2T1	S1	
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S2	SSC
Agrostis hendersonii Henderson's bent grass	PMPOA040K0	None	None	G2Q	S2	3.2
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Andrena blennospermatis Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S1	
Andrena subapasta An andrenid bee	IIHYM35210	None	None	G1G2	S1S2	
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arctostaphylos myrtifolia Ione manzanita	PDERI04240	Threatened	None	G1	S1	1B.2
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Ardea herodias great blue heron	ABNGA04010	None	None	G5	S4	
Astragalus tener var. tener alkali milk-vetch	PDFAB0F8R1	None	None	G2T1	S1	1B.2
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Atriplex cordulata var. cordulata heartscale	PDCHE040B0	None	None	G3T2	S2	1B.2
Blepharizonia plumosa big tarplant	PDAST1C011	None	None	G1G2	S1S2	1B.1
Bombus crotchii Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G2	S2	
Bombus pensylvanicus American bumble bee	IIHYM24260	None	None	G3G4	S2	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Brasenia schreberi watershield	PDCAB01010	None	None	G5	S3	2B.3
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S4	
Calycadenia hooveri Hoover's calycadenia	PDAST1P040	None	None	G2	S2	1B.3
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Castilleja campestris var. succulenta succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
Chloropyron palmatum palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1	1B.1
Cicuta maculata var. bolanderi Bolander's water-hemlock	PDAPI0M051	None	None	G5T4T5	S2?	2B.1
Coastal and Valley Freshwater Marsh Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Delphinium recurvatum recurved larkspur	PDRAN0B1J0	None	None	G2?	S2?	1B.2
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2T3	S3	
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eryngium pinnatisectum Tuolumne button-celery	PDAPI0Z0P0	None	None	G2	S2	1B.2
Eryngium racemosum Delta button-celery	PDAPI0Z0S0	None	Endangered	G1	S1	1B.1
Extriplex joaquinana San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
Falco mexicanus prairie falcon	ABNKD06090	None	None	G5	S4	WL
Gonidea angulata western ridged mussel	IMBIV19010	None	None	G3	S2	
Gratiola heterosepala Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Great Valley Mixed Riparian Forest						
Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
Great Valley Valley Oak Riparian Forest						
Haliaeetus leucocephalus	ABNKC10010	Delisted	Endangered	G5	S3	FP
bald eagle						
Hibiscus lasiocarpos var. occidentalis	PDMAL0H0R3	None	None	G5T3	S3	1B.2
woolly rose-mallow						
Horkelia parryi	PDROS0W0C0	None	None	G2	S2	1B.2
Parry's horkelia						
Hydrochara rickseckeri	IICOL5V010	None	None	G2?	S2?	
Ricksecker's water scavenger beetle						
Hypomesus transpacificus	AFCHB01040	Threatened	Endangered	G1	S1	
Delta smelt						
Icteria virens	ABPBX24010	None	None	G5	S3	SSC
yellow-breasted chat						
Ione Chaparral	CTT37D00CA	None	None	G1	S1.1	
Ione Chaparral						
Juncus leiospermus var. ahartii	PMJUN011L1	None	None	G2T1	S1	1B.2
Ahart's dwarf rush						
Laterallus jamaicensis coturniculus	ABNME03041	None	Threatened	G3T1	S2	FP
California black rail						
Lathyrus jepsonii var. jepsonii	PDFAB250D2	None	None	G5T2	S2	1B.2
Delta tule pea						
Legenere limosa	PDCAM0C010	None	None	G2	S2	1B.1
legenere						
Lepidurus packardi	ICBRA10010	Endangered	None	G4	S3	
vernal pool tadpole shrimp						
Lilaeopsis masonii	PDAPI19030	None	Rare	G2	S2	1B.1
Mason's lilaeopsis						
Limosella australis	PDSCR10030	None	None	G4G5	S2	2B.1
Delta mudwort						
Linderiella occidentalis	ICBRA06010	None	None	G2G3	S2S3	
California linderiella						
Melospiza melodia pop. 1	ABPBXA3013	None	None	G5T3?Q	S3?	SSC
song sparrow ("Modesto" population)						
Mylopharodon conocephalus	AFCJB25010	None	None	G3	S3	SSC
hardhead						
Navarretia myersii ssp. myersii	PDPLM0C0X1	None	None	G2T2	S2	1B.1
pincushion navarretia						
Navarretia paradoxiclara	PDPLM0C150	None	None	G2	S2	1B.3
Patterson's navarretia						

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Nycticorax nycticorax black-crowned night heron	ABNGA11010	None	None	G5	S4	
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Orcuttia viscida Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
Pandion haliaetus osprey	ABNKC01010	None	None	G5	S4	WL
Pogonichthys macrolepidotus Sacramento splittail	AFCJB34020	None	None	G3	S3	SSC
Rana boylii pop. 5 foothill yellow-legged frog - south Sierra DPS	AAABH01055	Proposed Endangered	Endangered	G3T2	S2	
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S3	
Sagittaria sanfordii Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
Scutellaria galericulata marsh skullcap	PDLAM1U0J0	None	None	G5	S2	2B.2
Scutellaria lateriflora side-flowering skullcap	PDLAM1U0Q0	None	None	G5	S2	2B.2
Setophaga petechia yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
Spea hammondii western spadefoot	AAABF02020	None	None	G2G3	S3S4	SSC
Spirinchus thaleichthys longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
Sylvilagus bachmani riparius riparian brush rabbit	AMAEB01021	Endangered	Endangered	G5T1	S1	
Symphyotrichum lentum Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis gigas giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
Trifolium hydrophilum saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Tuctoria greenei Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S3	
least Bell's vireo						

Record Count: 82

CNPS Rare Plant Inventory

Search Results

39 matches found. Click on scientific name for details

Search Criteria: Quad is one of
[3812111:3812122:3812112:3812123:3812132:3812131:3812121:3812028:3812018:3712088:3712181:3712182:3712183:3812113:3812133:3812134:3812124:3812114]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED
Agrostis hendersonii	Henderson's bent grass	Poaceae	annual herb	Apr-Jun	None	None	G2Q	S2	3.2		1974-01-01
Arctostaphylos myrtifolia	Ione manzanita	Ericaceae	perennial evergreen shrub	Nov-Mar	FT	None	G1	S1	1B.2	Yes	1974-01-01
Astragalus tener var. *tener*	alkali milk-vetch	Fabaceae	annual herb	Mar-Jun	None	None	G2T1	S1	1B.2	Yes	1994-01-01
Atriplex cordulata var. *cordulata*	heartscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G3T2	S2	1B.2	Yes	1988-01-01
Azolla microphylla	Mexican mosquito fern	Azollaceae	annual/perennial herb	Aug	None	None	G5	S4	4.2		1994-01-01
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	None	None	G1G2	S1S2	1B.1	Yes	1994-01-01
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	None	None	G5	S3	2B.3		2010-10-27
Brodiaea rosea ssp. *vallicola*	valley brodiaea	Themidaceae	perennial bulbiferous herb	Apr-May(Jun)	None	None	G5T3	S3	4.2	Yes	2019-01-07
Calycadenia hooveri	Hoover's calycadenia	Asteraceae	annual herb	Jul-Sep	None	None	G2	S2	1B.3	Yes	1980-01-01
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	None	None	G5	S2	2B.1		1994-01-01
Castilleja campestris var. *succulenta*	succulent owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	(Mar)Apr-May	FT	CE	G4?T2T3	S2S3	1B.2	Yes	1984-01-01
Centromadia parryi ssp. *rudis*	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	None	None	G3T3	S3	4.2	Yes	2007-05-22
Chloropyron palmatum	palmate-bracted bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct	FE	CE	G1	S1	1B.1	Yes	1974-01-01
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	None	None	G5T4T5	S2?	2B.1		1974-01-01
Delphinium recurvatum	recurved larkspur	Ranunculaceae	perennial herb	Mar-Jun	None	None	G2?	S2?	1B.2	Yes	1988-01-01
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	None	None	GU	S2	2B.2		1980-01-01
Eryngium pinnatisectum	Tuolumne button-celery	Apiaceae	annual/perennial herb	May-Aug	None	None	G2	S2	1B.2	Yes	1974-01-01

Eryngium racemosum	Delta button-celery	Apiaceae	annual/perennial herb	(May)Jun-Oct	None	CE	G1	S1	1B.1	Yes	1974-01-01
Extriplex joaquinana	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G2	S2	1B.2	Yes	1988-01-01
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	Apr-Aug	None	CE	G2	S2	1B.2		1974-01-01
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	None	None	G3	S3	4.2	Yes	2001-01-01
Hibiscus lasiocarpos var. *occidentalis*	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	None	None	G5T3	S3	1B.2	Yes	1974-01-01
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	Apr-Sep	None	None	G2	S2	1B.2	Yes	1974-01-01
Juncus leiospermus var. *ahartii*	Ahart's dwarf rush	Juncaceae	annual herb	Mar-May	None	None	G2T1	S1	1B.2	Yes	1984-01-01
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	Feb-May	None	None	G3	S3	4.2	Yes	2001-01-01
Lathyrus jepsonii var. *jepsonii*	Delta tule pea	Fabaceae	perennial herb	May-Jul(Aug-Sep)	None	None	G5T2	S2	1B.2	Yes	1974-01-01
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.1	Yes	1974-01-01
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	None	CR	G2	S2	1B.1	Yes	1974-01-01
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	May-Aug	None	None	G4G5	S2	2B.1		1994-01-01
Navarretia myersii ssp. *myersii*	pincushion navarretia	Polemoniaceae	annual herb	Apr-May	None	None	G2T2	S2	1B.1	Yes	1994-01-01
Navarretia paradoxiclara	Patterson's navarretia	Polemoniaceae	annual herb	May-Jun(Jul)	None	None	G2	S2	1B.3	Yes	2016-04-27
Orcuttia viscida	Sacramento Orcutt grass	Poaceae	annual herb	Apr-Jul(Sep)	FE	CE	G1	S1	1B.1	Yes	1974-01-01
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	None	None	G4	S3	4.2		1974-01-01
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984-01-01
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Sep	None	None	G5	S2	2B.2		1994-01-01
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	Jul-Sep	None	None	G5	S2	2B.2		1994-01-01
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May-Nov	None	None	G2	S2	1B.2	Yes	1974-01-01
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	2001-01-01
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	FE	CR	G1	S1	1B.1	Yes	1974-01-01

Showing 1 to 39 of 39 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 3 May 2023].

Marek, Mia

From: Marek, Mia
Sent: Wednesday, May 3, 2023 10:33 AM
To: nmfs.wcrca.specieslist@noaa.gov
Subject: Official Species List - Linden, Lockeford, Waterloo, and Lodi North

Hello, my name is Mia Marek and I am a biologist with Jacobs Engineering in Oakland, CA. I am requesting an official species list for the Northern San Joaquin 230 kV Transmission Project, which will provide a new 230 kV transmission system in northern San Joaquin County, in central California. I have copied and pasted the search results for a query I ran for the Linden, Lockeford, Waterloo, and Lodi North quadrants where the project is located. Below, you will find the results.

Quad Name **Linden**
Quad Number **38121-A1**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - **X**
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - **X**
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -
Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - X
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Quad Name **Waterloo**
Quad Number **38121-A2**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - X
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - X
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -
Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - X
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Quad Name **Lodi North**
Quad Number **38121-B3**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) - X
Eulachon (T) -
sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat - X
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -

Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH - X
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office
562-980-4000

MMPA Cetaceans -
MMPA Pinnipeds -

Mia Marek, M.A.
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Pronouns: she/her

I respectfully acknowledge that we live and work on the traditional, ancestral & unceded land of Indigenous Peoples.
Whose land are you on?

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Project information

NAME

Northern San Joaquin 230 kV Transmission Project

LOCATION

San Joaquin County, California



DESCRIPTION

Some(new 230 kV transmission system)

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

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Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Riparian Brush Rabbit Sylvilagus bachmani riparius Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6189	Endangered

Birds

NAME	STATUS
Yellow-billed Cuckoo Coccyzus americanus There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Tiger Salamander Ambystoma californiense There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

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Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp Branchinecta conservatio Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp Branchinecta lynchi Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp Lepidurus packardi Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Fleshy Owl's-clover Castilleja campestris ssp. succulenta Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8095	Threatened

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your

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list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird *Selasphorus sasin* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
Belding's Savannah Sparrow *Passerculus sandwichensis beldingi* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Bullock's Oriole *Icterus bullockii* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull *Larus californicus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
California Thrasher *Toxostoma redivivum* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Common Yellowthroat *Geothlypis trichas sinuosa* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084	Breeds May 20 to Jul 31

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Lawrence's Goldfinch Carduelis lawrencei — Breeds Mar 20 to Sep 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9464

Nuttall's Woodpecker Picoides nuttallii — Breeds Apr 1 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus — Breeds Mar 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656

Olive-sided Flycatcher Contopus cooperi — Breeds May 20 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3914

Tricolored Blackbird Agelaius tricolor — Breeds Mar 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3910

Wrentit Chamaea fasciata — Breeds Mar 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Yellow-billed Magpie Pica nuttalli — Breeds Apr 1 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9726

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Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

▪ probability of presence ▪ breeding season | survey effort – no data

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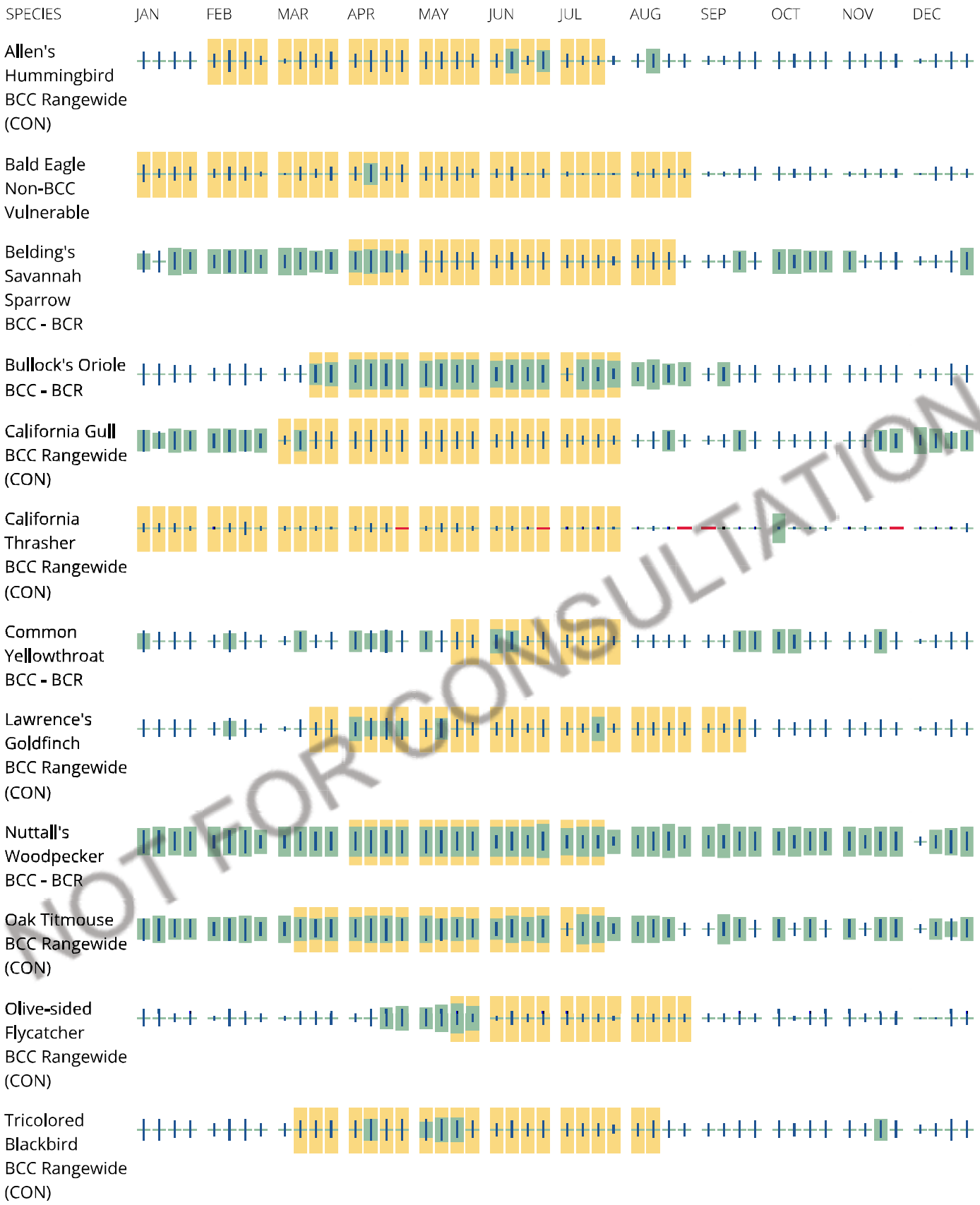

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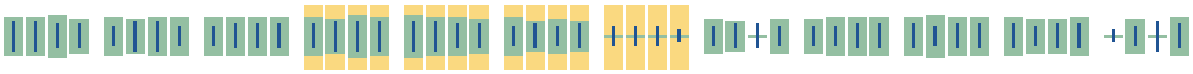
Yellow-billed Magpie
BCC Rangewide (CON)



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird

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on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is

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the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

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Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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Appendix C6
PG&E Nesting Bird Management Plan Summary

Nesting Birds: Species-Specific Buffers for PG&E Activities

Within PG&E's Avian Program, standard nest buffers were developed for all common and special-status birds present within its Service Territory. There are no standard nest buffers specified in the Migratory Bird Treaty Act (MBTA) or within California Fish and Game Code. Table 1 provides nest buffers based on the best available information, including relevant literature review and avian biology. Disturbance factors including *nest location*, *human activity*, *activity duration*, and *noise level* may influence nesting behavior and reproductive success, and were each considered in establishing standard buffer distances for individual species. Where regulatory agencies have provided information on nest buffer distances for special-status species, those buffer distances are primarily used as *standard buffers* in Table 1. *Standard buffers* are species-specific buffer distances between occupied nest sites and work activities where work will not occur while the nest is active (containing eggs or young). These standard buffers are intended to be applied to nests located in proximity to PG&E activities at a sufficient distance to provide suitable nest protection. For example, a nesting black-crowned night heron has a standard buffer distance of 400 feet (Table 1).

Because it is not always possible to apply the standard buffer, non-standard species-specific buffer distances have also been established. As part of the determination of these non-standard buffers, PG&E activities are assigned disturbance rankings (Low, Medium, or High) for each factor identified above. Evaluation of all disturbance factors combined produces an overall disturbance category by assessing each disturbance factor for one or more PG&E activities. If the overall disturbance category is high, the standard buffer will generally apply. If the evaluation results in low or medium overall disturbance categories, the standard buffer is applied as feasible or reduced buffers may be appropriate. For example, in some circumstances it may be necessary to perform certain types of work within the standard buffer. In these cases, biologists consider all relevant site-specific conditions, including the species' tolerance for disturbance, work activity type, noise levels, and distance to nest to determine if reducing the standard buffer is appropriate. Alternatively, the buffer may be increased beyond the standard buffer for certain exceptions. Helicopters are the main exception that may require increased buffers.

Table 1 lists the standard buffers and non-standard buffer ranges for activities with low-medium and medium-high disturbances. Nest buffers will be implemented and adjusted by the biologist[1].

The following site-specific conditions are considered in determining if a reduced or increased buffer is appropriate:

- **Disturbance**. Evaluate nest disturbance, including consideration of activity intensity and duration, construction type, amount of habitat disturbance, level of human disturbance or acclimation, activity length, and the amount of noise generated by the activity.
- **Existing Conditions**. Assess site conditions to determine if there is acclimation to human disturbance.
- **Nest Concealment**. Evaluate surrounding habitat for its ability to provide visual and/or acoustic barriers between the nest and construction.
- **Species Natural History**. Consider individual species' natural history, nest stage (incubation, rearing, fledging), and known tolerances to disturbance.
- **Habituation**. Consider species habituation to new or ongoing activities.
- **Environmental Conditions**. Consider weather and other related factors.
- **Helicopter Use.** Consider helicopter type, flight plans, and duration.

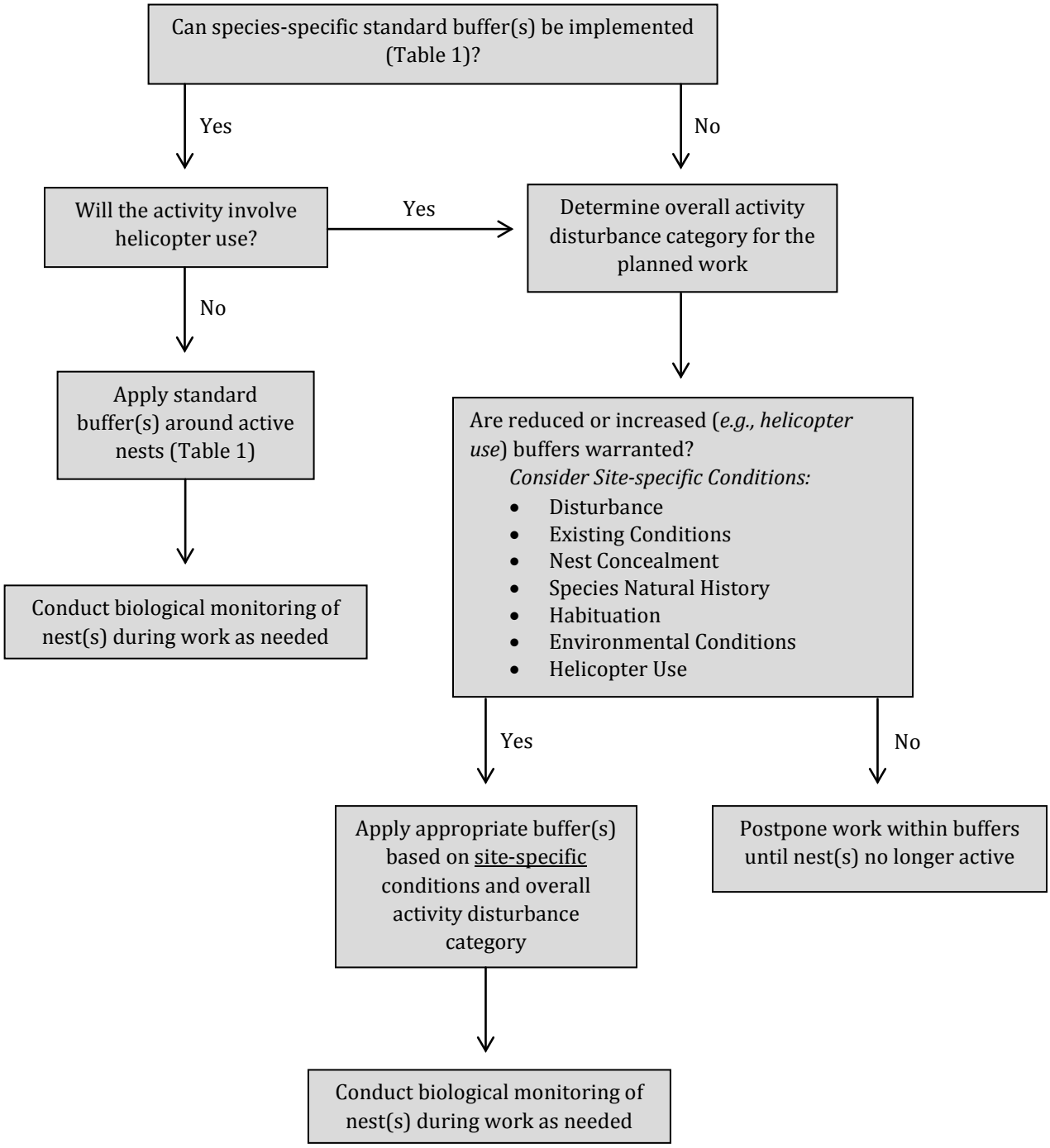
Nest Buffer Implementation Guidelines

Step/Task/Responsible	Outcome and Components
1. Desktop review *Biologist*	• Assess habitat types and potential nesting bird species • Identify potentially appropriate buffers for the species that may nest
2. Preconstruction nesting bird surveys *Biologist*	• Conduct preconstruction surveys within the standard buffers • Document species detections including nests and active nests
3. Assign Buffers *Biologist*	• Assess intensity/duration of activity • Assess acclimation to human disturbance • Assess site-specific conditions • Consider species' natural history, reproductive stage, tolerances to disturbance, and observed behavior • Evaluate and assign standard, reduced, or increased buffers
4. Implement Buffers *Biologist/Biological Monitor*	• Implement buffers when work activities are occurring • Conduct periodic biological monitoring where needed • Adjust buffers as appropriate

[1] Biologist refers to an individual with a bachelor's degree or above in a field related to biological sciences and demonstrated field expertise in ornithology, in particular, nesting behavior; these qualified biologists may be PG&E employees or contractors.

Species-Specific Buffers for PG&E Activities

Buffer Assignment Process – Quick Reference



Other Biological Considerations in Determining Buffers

- Provisioning frequency of hatchlings or older young
- Egg turning
- Egg incubation (female or male or combination)
- Egg hardiness
- Ambient Temperatures
- Heat tolerance (eggs or nestlings)
- Cold tolerance (eggs or nestlings)
- Unsheltered nest risk
- Premature fledging risk
- Unattended nests and predation risk

Time on Nest is Important. An egg initially requires a controlled heat input, but later in incubation the embryo may produce more heat and may need to be cooled rather than heated. Ambient temperatures need to be considered. Unattended unsheltered nests may experience temperature extremes (heat or cold). Egg turning during incubation is also a critical component for successful hatching; absence of turning during incubation will result in reduced and delayed hatching. During the nestling stage for altricial birds (i.e., birds that typically require feeding by adults), adults must provision food to nestlings. Provisioning rate is highly variable between species and is correlated to clutch size and body size, but most birds make frequent trips to attend nestlings. Collectively referred to as brooding, these forms of parental care are essential for reproductive success. Unattended nests also may experience increased rates of predation. Premature fledging is more likely to occur during later nest stages, when young are nearing fledging stage but not yet capable of flight.

Table 1. Species-specific Nest Buffers for PG&E Work Activities

**Atypically high-intensity activities, such as helicopter use usually require increased buffers beyond the standard buffer*

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Mallard	*Anas platyrhynchos*	Scrapes under overhanging cover or in dense vegetation in uplands near water.	Ground	March through June; single brood.	Clutch incubated for 26–29 days by female; young are precocial.	100	30–100	15–30
Cinnamon Teal	*Anas cyanoptera*	Scrapes under overhanging cover or in dense vegetation in uplands near water.	Ground	April through August; single brood.	Clutch incubated for 24–25 days by female; young are precocial.	100	30–100	15–30
Canada Goose	*Branta canadensis*	Scrapes on slightly elevated, firm ground in uplands near water.	Ground	February through June; single brood.	Clutch incubated for 27–28 days by female; young are precocial.	100	30–100	15–30
Wood Duck	*Aix sponsa*	Cavities in riparian woodlands and other woodland habitats near water.	Up to 60 feet	April through August; single or double brood.	Clutch incubated for 27–35 days by female; young are precocial.	100	30–100	15–30
Blue-winged Teal	*Anas discors*	Scrapes in dense grass or forbs in wetlands or grasslands near water.	Ground	June through July; single brood	Clutch incubated for 23–24 days by female; young are precocial.	100	30–100	15–30
Northern Shoveler	*Anas clypeata*	Scrapes in low grasses or forbs in uplands near water.	Ground	March through July; single brood.	Clutch incubated for 25–27 days by female; young are precocial.	100	30–100	15–30
Gadwall	*Anas strepera*	Scrapes in dense, low emergent vegetation or grasses in uplands near water.	Ground	April through July; single brood.	Clutch incubated for 22–29 days by female; young are precocial.	100	30–100	15–30
American Wigeon	*Anas americana*	Scrapes in dense vegetation cover in uplands near water.	Ground	May through July; single brood.	Clutch incubated for 24–25 days by female; young are precocial.	100	30–100	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Redhead	*Aythya americana*	Platform nests over water in dense vegetation; occasionally nests in uplands near water.	Ground	April through June; single brood.	Clutch incubated for 24–26 days by both sexes; young are precocial.	100	30–100	15–30
Ring-necked Duck	*Aythya collaris*	Platform nests over water in dense emergent vegetation in wetlands.	Ground	May through August; single brood.	Clutch incubated for approximately 26 days by female; young are precocial.	100	30–100	15–30
Common Merganser	*Mergus merganser*	Cavities in trees, snags and stumps in riparian woodlands.	Up to 200 feet	March through September; single brood.	Clutch incubated for 28–32 days by female; young are precocial.	100	30–100	15–30
Ruddy Duck	*Oxyura jamaicensis*	Platform nests constructed on shallow water in dense, tall emergent vegetation.	Ground	April through October; single or double brood.	Clutch incubated for approximately 23 days by female; young are precocial.	100	30–100	15–30
Pied-billed Grebe	*Podilymbus podiceps*	Platform nests constructed in emergent vegetation bordering open water.	Ground	March through July; double brood.	Clutch incubated for approximately 23 days by both sexes; young are precocial.	100	30–100	15–30
Eared Grebe	*Podiceps nigricollis*	Platform nests in water on emergent wetland vegetation.	Ground	April through July; single brood.	Clutch incubated for approximately 21 days by both sexes by both sexes; young are precocial.	100	30–100	15–30
Western Grebe	*Aechmophorus occidentalis*	Platform nests in emergent vegetation or open water or, less frequently, on dry land near water.	Ground	May through August; single brood.	Clutch incubated for approximately 23 days by both sexes; young are precocial.	100	30–100	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Clark's Grebe	*Aechmophorus clarkii*	Platform nests constructed in emergent vegetation or open water or, less frequently, on dry land near water.	Ground	May through August; single brood.	Clutch incubated for approximately 23 days by both sexes; young are precocial.	100	30–100	15–30
Double-crested Cormorant	*Phalacrocorax auritus*	Platform nests on islands, on the ground or in trees; also in power poles and other artificial structures. Colonial nester.	Ground	March through August; single brood.	Clutch incubated for 25–29 days by both sexes; altricial young fledge at 37–44 days.	400	75–400	50–75
Pelagic Cormorant	*Phalacrocorax pelagicus*	Platform nests on steep cliffs along rocky and exposed shorelines along outer coasts, bays, inlets, estuaries, rapids, coves, surge narrows, harbors, lagoons, and coastal log-storage sites. Colonial nester.	Ground	April through August; single or double brood	Clutch incubated for 28–32 days by both sexes; altricial young fledge at approximately 47 days	400	75–400	50–75
American Bittern	*Botaurus lentiginosus*	Platform nests in shallow water or on ground near water.	Ground	April through July; single brood.	Clutch incubated for approximately 24 days by female; altricial young fledge at approximately 14 days.	100	50–100	25–50
Least Bittern	*Ixobrychus exilis*	Platform nests about a foot above the water in freshwater marshes.	Ground	March through July; double brood.	Clutch incubated for 16–19 days by both sexes; altricial young fledge at 13–15 days.	100	50–100	25–50

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Great Blue Heron	*Ardea herodias*	Platform nests in tall trees or other types of vegetation near water. Colonial nester.	Up to 130 feet	January through July; single brood.	Clutch incubated for 25–29 days by both sexes; altricial young fledge at approximately 60 days.	400	75–400	50–75
Great Egret	*Ardea alba*	Platform nests in tall trees or other types of vegetation near water. Colonial nester.	10–80 feet	March through July; single brood.	Clutch incubated for approximately 26 days; semi-altricial young fledge at approximately 35–42 days.	400	75–400	50–75
Snowy Egret	*Egretta thula*	Platform nests in tall trees or other types of vegetation near water. Colonial nester.	Up to 30 feet but usually 10–15 feet	March through July; single brood.	Clutch incubated for 20–24 days by both sexes; semi-altricial young fledge at 21–28 days.	400	75–400	50–75
Cattle Egret	*Bubulcus ibis*	Platform nests in tall shrubs and trees near water.	Up to 30 feet but usually 5–15 feet	April to July; single brood.	Clutch incubated for 23–25 days; semi-altricial young fledge at about 40 days.	400	75–400	50–75
Green Heron	*Butorides striatus*	Platform nests in shrubs, trees, thickets, or other vegetation near water.	10–30 feet, sometimes higher	March through July; single or double brood.	Clutch incubated for 19–21 days by both sexes; semi-altricial young fledge at 21–23 days.	100	50–100	25–50
Black-crowned Night-Heron	*Nycticorax*	Platform nests in shrubs, trees, thickets, or other vegetation near water. Colonial nester.	Up to 150 feet	January through June; double brood.	Clutch incubated for approximately 24 days by female; semi-altricial young fledge at 42–49 days.	400	75–400	50–75
White-faced Ibis	*Plegadis chihi*	Platform nests of emergent wetland vegetation in extensive wetlands. Colonial nester.	Ground	May to July; single brood.	Clutch incubated for 20–26 days by both sexes; altricial young fledge at 10–12 days.	400	75–400	50–75

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Turkey Vulture	*Cathartes aura*	Caves, rock crevices, possibly abandoned buildings, or other dark, secluded sites.	Up to 20 feet	March through June; single brood.	Clutch incubated for 37–41 days by both sexes; semi-altricial young fledge at approximately 77 days.	300	100–300	50–100
California Condor	*Gymnogyps californianus*	Caves on high, remote cliff-faces or in hollow in large redwood snag.	Cliff	Year-round, with egg-laying usually occurring in January or February; single brood.	Clutch incubated for 42–50 days by both sexes; semi-altricial young fledge at 35–49 days.	3,960	CR[a]	CR
White-tailed Kite	*Elanus caeruleus*	Platform nests in tall trees near grasslands, oak savannah, or other open habitats.	12–60 feet	February through July; sometimes double brood.	Clutch incubated for 28–30 days by both sexes; semi-altricial young fledge at 34–40 days.	300	200–300	100–200
Osprey	*Pandion haliaetus*	Platform nests on treetops, rocky outcrops, or utility poles near water.	Up to 60 feet	Mid-March through August; single brood.	Clutch incubated for 32–33 days by both sexes; semi-altricial young fledge at 51–59 days.	300	100–300	50–100
Bald Eagle	*Haliaeetus leucocephalus*	Platform nests in large trees or rocky outcrops close to lakes and large rivers.	50–180 feet	January to August; single brood.	Clutch incubated for 35–46 days by both sexes; semi-altricial young fledge at 70–77 days.	2,640	CR	CR
Northern Harrier	*Circus cyaneus*	Platform nests on ground in grasslands and open marshland with vegetative cover.	Ground	March through August; single brood.	Clutch incubated for 29–39 days by both sexes; altricial young fledge at 37 days.	300	200–300	100–200
Sharp-shinned Hawk	*Accipiter striatus*	Platform nests in trees in riparian woodland or other forested habitat with thick cover.	10–60 feet	April through August; single brood.	Clutch incubated for 30–35 days by both sexes; semi-altricial young fledge at approximately 23 days.	300	100–300	50–100

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Cooper's Hawk	*Accipiter cooperii*	Platform nests in trees in riparian woodlands or other forested habitat.	20–60 feet	March through July; single brood.	Clutch incubated for 36 days by female while male provisions her; semi-altricial young fledge at 30–34 days.	300	100–300	50–100
Northern Goshawk	*Accipiter gentilis*	Platform nests in top of tall coniferous or deciduous trees in mature forest.	Up to 75 feet	April through August; single brood.	Clutch incubated for 36–41 days by female while male provisions her; semi-altricial young fledge at 45 days old	1,320	200–1,320	100–200
Red-shouldered Hawk	*Buteo lineatus*	Platform nests below canopy in a variety of tree species.	20–60 feet	March through June; single brood.	Clutch incubated for 23–25 days by both sexes; semi-altricial young fledge at 35–42 days.	300	100–300	50–100
Swainson's Hawk	*Buteo swainsoni*	Platform nests in isolated trees in grasslands and agricultural areas.	5–30 feet	April through late June; single brood.	Clutch incubated for approximately 28 days by both sexes; semi-altricial young fledge at 28–35 days.	1,320–2,640	CR	CR
Red-tailed Hawk	*Buteo jamaicensis*	Platform nests in tall trees and other structures in a variety of open habitats.	35–90 feet	February through September; single brood.	Clutch incubated for 28–32 days by both sexes; semi-altricial young fledge at approximately 42 days.	250	100–300	50–100
Ferruginous Hawk	*Buteo regalis*	Nest in substrates ranging from cliffs, trees, utility structures, and farm buildings to haystacks and relatively level ground.	Up to 70 feet	Early March through May; single brood	Clutch incubated for 32–33 days by both sexes; altricial and nidicolous young fledge at 38–50 days.	300	100–300	50–100

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Golden Eagle	*Aquila chrysaetos*	Platform nests on rock ledges of outcrops or cliffs, and occasionally trees, in proximity to grassland, farmland, oak savannah, and other foraging grounds.	10–100 feet or higher on cliffs	February through July; single brood.	Clutch incubated for 43–45 days by female and occasionally male; semi-altricial young fledge at 63–70 days.	2,640	CR	CR
American Kestrel	*Falco sparverius*	Cavities in trees or other structures near grasslands, agricultural areas, oak savannah, or other open areas.	7–80 feet	March through July; may double brood.	Clutch incubated for 29–30 days by female while male provisions her; semi-altricial young fledge at approximately 30 days.	200	50–200	25–50
Prairie Falcon	*Falco mexicanus*	Ledges under overhangs on rock outcrops or cliffs near grassland, farmland, oak savannah, or other foraging habitat.	30–40 feet	March to May; single brood.	Clutch incubated for 29–31 days by female while male provisions her; semi-altricial young fledge at 40 days.	300	100–300	50–100
American Peregrine Falcon	*Falco peregrinus*	Cliff ledges, tall buildings, high bridges, and other high locations near open habitats.	High on cliffs or tall structures	March through June; single brood.	Clutch incubated for 28–29 days by both sexes; semi-altricial young fledge at 35–42 days.	500	CR	CR
Mount Pinos Sooty Grouse	*Dendragapus fuliginosus*	Scrapes near logs, shrubs, or other cover in coniferous forests, shrub-steppe habitat, and subalpine forests.	Ground	April through August; single brood.	Clutch incubated for 26–28 days by female; young are precocial.	100	50–100	25–50
Ruffed Grouse	*Bonasa umbellus*	Scrapes near the base of stumps, trees, or logs in forested habitat.	Ground	February through August; single brood.	Clutch incubated for approximately 24 days by female; young are precocial.	100	50–100	25–50

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Wild Turkey	*Meleagris gallopavo*	Scrapes in thick, low vegetation in oak woodlands and forest edges and clearings.	Ground	March through August; single brood.	Clutch incubated for approximately 28 days by female; young are precocial.	100	30–100	15–30
Gambel's Quail	*Callipepla gambellii*	Scrapes under shrubs in desert habitats.	Ground	April through June; single or (rarely) double brood	Clutch incubated for 21–23 days by female while male guards; young are precocial.	100	50–100	25–50
California Quail	*Callipepla californica*	Scrapes under shrubs in riparian woodland, coastal scrub, chaparral, shrub-steppe, and mixed-hardwood forest.	Ground	March through July; single or double brood.	Clutch incubated for 21–23 days by female; young are precocial.	100	50–100	25–50
Mountain Quail	*Oreortyx pictus*	Scrapes under shrubs in mountain woodland and scrub habitats, usually near water.	Ground	April through June; single brood.	Clutch incubated for 24–25 days by female; young are precocial.	100	50–100	25–50
California Black Rail	*Laterallus jamaicensis coturniculus*	Cup nests on or near ground at upper edges of tidal marshes.	0–1 foot	March through July; single brood.	Clutch incubated for 17–20 days by both sexes; young are semi-precocial.	300–600	CR	CR
Clapper Rail (California, Yuma, Light-footed)	*Rallus longirostris obscurus/yumanensis/levipes*	Platform nests in dense tidal marsh vegetation dominated by cordgrass or gumplant.	0–1 foot	February through August; single or double brood.	Clutch incubated for 23–29 days by both sexes; young are semi-precocial.	700	CR	CR
Virginia Rail	*Rallus limicola*	Platform nests in dense emergent vegetation in freshwater or estuarine marshes.	0–1 foot	April through June; single or double brood.	Clutch incubated for 14–16 days by both sexes; young are precocial.	100	50–100	25–50
Sora	*Porzana carolina*	Cup nests secured to reeds and rushes in freshwater or estuarine marshes.	0–1 foot	April through August; single brood.	Clutch incubated for approximately 14 days by both sexes; young are precocial.	100	50–100	25–50

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Common Gallinule	*Gallinula galeata*	Platform nests in dense vegetation at edge of marshes and other freshwater habitats.	Ground or water level	April through June; single or double brood.	Clutch incubated for 19–22 days by both sexes; young are precocial.	100	50–100	25–50
American Coot	*Fulica americana*	Platform nests in dense vegetation at edge of marshes and other freshwater habitats.	Ground or water level	March through July; single or double brood.	Clutch incubated for 21–24 days by both sexes; young are precocial.	100	30–100	15–30
Greater Sandhill Crane	*Grus canadensis tabida*	Platform nests in wetland vegetation on dry ground or shallow water in extensive marsh systems or grasslands.	Ground	April through August; single brood.	Clutch incubated for approximately 30 days by both sexes; young are precocial.	500	CR	CR
Western Snowy Plover	*Charadrius alexandrinus nivosus*	Scrapes on sand beaches/bars, salt pannes, or dry river beds.	Ground	April through August; double or triple brood.	Clutch incubated for approximately 24 days by both sexes; young are precocial.	600 (coastal) 300 (interior)	CR (coastal) 200–300 (interior)	CR (coastal) 100–200 (interior)
Killdeer	*Charadrius vociferus*	Scrapes in open places usually in areas with short grass, sand, or gravel.	Ground	March through June; sometimes double brood.	Clutch incubated for 24–26 days by both sexes; young are precocial.	75	30–75	15–30
Black-necked Stilt	*Himantopus mexicanus*	Scrapes or plant tufts/ tussocks in fresh, brackish, or salt marshes.	Ground	April through June; single brood.	Clutch incubated for 25–26 days by both sexes; young are precocial.	150	50–150	25–50
American Avocet	*Recurvirostra americana*	Scrapes on salt pannes, dikes, levees, and bare islands.	Ground	April through June; single brood.	Clutch incubated for 22–24 days by both sexes; young are precocial.	150	50–150	25–50

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Spotted Sandpiper	*Actitis macularia*	Scrapes in grasses among rocks, wrack, or driftwood.	Ground	April through August; single brood.	Clutch incubated for approximately 21 days by male; young are precocial.	75	30–75	15–30
Wilson's Snipe	*Gallinago gallinago*	Scrapes in dense, medium to tall marshy or wet meadow vegetation.	Ground	April to August; single brood.	Clutch incubated for 17–20 days by female; young are precocial.	75	30–75	15–30
Lesser Yellowlegs	*Tringa flavipes*	Scrapes on shallow wetlands, trees or shrubs, and open areas.	Ground	Late April to mid-May; single brood.	Clutch incubated for 22–23 days by both sexes; young are precocial.	75	30–75	15–30
Whimbrel	*Numenius phaeopus*	Hummocks or mounds near dwarfed shrub, flat heath tundra, in grass or sedge tussocks, and on gravel.	Ground	Early June to early July; single brood.	Clutch incubated 22–28 days by both sexes; young are precocial.	75	30–75	15–30
Black Skimmer	*Rynchops niger*	Saucer-shaped depressions on beaches, bars, dredge deposition, salt marsh.	Ground	May through August; single brood.	Clutch incubated 21–23 days by both sexes; young are semi-precocial.	300	100–300	50–100
Long-billed Curlew	*Numenius americanus*	Scrapes in short-grass or mixed-prairie habitat with flat to rolling topography.	Ground	Mid-late March to early July; single brood.	Clutch incubated for 27–29 days by both sexes; young are precocial.	75	30–75	15-30
Marbled Godwit	*Limosa fedoa*	Scrapes in short, sparsely to moderately vegetated landscapes that include native grassland and wetland complexes with a variety of wetland classes (ephemeral to semipermanent).	Ground	Mid-May to late June; single brood.	Clutch incubated for 23–26 days by both sexes; young are precocial	75	30–75	15–30

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California Gull	*Larus californicus*	Scrapes on islands in alkali or freshwater lakes and ponds or salt ponds.	Ground	April through August; single brood.	Clutch incubated for 23–27 days by both sexes; young are precocial.	150	50–150	25–50
Western Gull	*Larus occidentalis*	Ledges on cliffs, bluffs, bridges, buildings, and other areas inaccessible to nest predators.	Ground/cliff	April through August; single brood.	Clutch incubated for 30–32 days by both sexes; young are semi-precocial.	150	50–150	25–50
Caspian Tern	*Sterna caspia*	Scrapes on islands, beaches, and levees.	Ground	April through August; single brood.	Clutch incubated for approximately 20 days by both sexes; semi-precocial young fledge at approximately 14 days.	300	100–300	50–100
Forster's Tern	*Sterna forsteri*	Scrapes on open levees, islands, and occasionally reed beds.	Ground	April through September; single brood.	Clutch incubated for approximately 23 days by both sexes; semi-altricial young fledge after approximately 7 days.	300	100–300	50–100
California Least Tern	*Sterna antillarum*	Scrapes on bare sandy or gravelly substrates in undisturbed areas.	Ground	May through June; single brood.	Clutch incubated for 20–25 days by both sexes; young are semi-precocial.	600	CR	CR
Black Tern	*Chlidonias niger*	Platform nests constructed of dead plant stems in freshwater wetlands and flooded rice fields.	Ground	May through August; single brood.	Clutch incubated for 20–22 days by both sexes; semi-precocial young fledge at approximately 14 days.	300	100–300	50–100

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Marbled Murrelet	*Brachyramphus marmoratus*	Horizontal limbs of large, old-growth conifers.	20–250 feet	March through September; likely a single brood.	Clutch incubated for approximately 30 days by both sexes; semi-precocial young fledge at approximately 21 days.	1,320 (high disturbance)[b]	CR	CR
Cassin's Auklet	*Ptychoramphus aleuticus*	Excavates burrows in soft soil, sod or natural cavities such as rock crevices and under trees, cacti or logs. Colonial nester.	Ground/cliff	Varies within November through May; single and double brood.	Clutch incubated 37–42 days by both sexes; altricial young confined to nest for 30 days.	400	75–400	50–75
Band-tailed Pigeon	*Columba fasciata*	Platform nests in trees or shrubs in oak woodlands, mixed hardwood forests, and mixed coniferous forests, usually in areas with oak trees.	5–180 feet	March through November; double or triple brood.	Clutch incubated for 18–20 days by both sexes; altricial young fledge at 25–30 days.	75	50–75	25–50
Mourning Dove	*Zenaida macroura*	Platform nests in a tree or shrub, but also on buildings or on ground, in a variety of habitats.	0–25 feet	February through September; several broods.	Clutch incubated for 14–15 days by both sexes; altricial young fledge at 13–15 days.	50	20–50	10–20
Western Yellow-billed Cuckoo	*Coccyzus americanus*	Platform nests in bushes or trees in dense, wide riparian woodlands.	2–20 feet	June through July; single brood.	Clutch incubated for 9–11 days by both sexes; altricial young fledge at 21 days.	500	CR	CR
Greater Roadrunner	*Geococcyx californianus*	Cup nests in dense, brushy habitats in desert, sagebrush, and chaparral habitats.	3–15 feet	April through June; double brood.	Clutch incubated for 16–20 days by male; altricial young fledge at 18–30 days.	100	50–100	25–50

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Barn Owl	*Tyto alba*	Cavities in trees, buildings, crevices in rocks, outcrops, cliffs and quarries.	1–400 feet	January through May; often double broods.	Clutch incubated for 32–34 days by female while male provisions her; altricial young fledge at 60 days.	150	100–150	50–100
Flammulated Owl	*Otus flammeolus*	Cavities in trees, including aspens, oaks, pines, or other trees in forested areas.	10–40 feet	May through October; single brood.	Clutch incubated for 21–24 days by female while male provisions her; altricial young fledge at 20–26 days	200	100–200	50–100
Western Screech Owl	*Otus kennicottii*	Cavities in trees, particularly cottonwoods, in open woodlands.	10–30 feet	March through June; single brood.	Clutch incubated for 21–30 days by female while male provisions her; altricial young fledge at approximately 28 days.	200	100–200	50–100
Great Gray Owl	*Strix nebulosa*	Near high elevation meadows, on broken top trees or stick nests of other species.	30-50 feet	Late March through early July; single brood	Average clutch incubated for 29.7 days by female, with male provisioning her; semi-precocial young fledge at 21-28 days but can be dependent on nest site and male parent until fall.	1,320	CR	CR
Great Horned Owl	*Bubo virginianus*	Cavities or large nest platforms of other species in trees, rock ledges, or caves.	Uses existing platforms at various heights	January through May; single brood.	Clutch incubated for 26–35 days by female while male provisions her; altricial young fledge at 28–35 days.	300	100–300	50–100

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Northern Pygmy Owl	*Glaucidium gnoma*	Cavities in trees in oak woodlands and coniferous forests.	8–20 feet	April through August; number of broods unknown.	Clutch incubated for 25–30 days by female while male provisions her; semi-altricial young fledge at approximately 23 days.	200	50–200	25–50
Spotted Owl (Northern/California)	*Strix occidentalis caurina/occidentalis*	Cavities or platforms (natural or old nests of other species) in coniferous or mixed hardwood forests.	30–165 feet	March through August; single brood.	Clutch incubated for 29–30 days by female while male provisions her; altricial young fledge at 34–36 days.	1,320 (high disturbance)[b]	CR	CR
Burrowing Owl	*Athene cunicularia*	Small mammal burrows in open grasslands or at the edge of agricultural areas.	Ground	February through August; single brood.	Clutch incubated for 27–30 days by female while male provisions her; altricial young fledge at 40–45 days.	250	CR	CR
Long-eared Owl	*Asio otus*	Platform nests built by other species high in trees in coniferous forests or mixed woodlands.	10–30 feet	February through May; single brood.	Clutch incubated for 25–30 days by female while male provisions her; altricial young fledge at 23–24 days.	300	100–300	50–100
Short-eared Owl	*Asio flammeus*	Scrapes in tall, dense vegetation in grasslands and freshwater or brackish marshes.	Ground	March through July; single or possibly double brood.	Clutch incubated for 21–28 days by female while male provisions her; semi-altricial young leave nest at 31–36 days.	300	100–300	50–100
Northern Saw-whet Owl	*Aegolius acadicus*	Cavities in trees in forested areas.	5–50 feet	March through August; single or double brood.	Clutch incubated for 21–28 days by female; semi-altricial young fledge at approximately 30 days.	200	100–200	50–100

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Lesser Nighthawk	*Chordeiles acutipennis*	Scrapes on bare gravelly or sandy ground in desert and sparsely vegetated habitats.	Ground	April through July; single or double brood.	Clutch incubated for 18–19 days by female; semi-precocial young fledge after 3 weeks.	75	30–75	20–30
Common Nighthawk	*Chordeiles minor*	Scrapes on bare gravelly or sandy ground in open areas within chaparral, grasslands, and forest openings.	Ground	June through July; double brood.	Clutch incubated for 18–20 days by female; semi-precocial young fledge after about 21 days.	75	30–75	20–30
Common Poorwill	*Phalaenoptilus nuttallii*	Scrapes on bare gravelly, sandy, or leaf-litter-covered ground in grasslands and desert habitats.	Ground	March through August; double brood.	Clutch incubated for 20–21 days by both sexes; young are precocial.	75	30–75	20–30
Black Swift	*Cypseloides niger*	Sheltered crevices or ledges on cliff faces on coast or under waterfall.	20–45 feet	May through September; single brood.	Clutch incubated for 21–27 days by both sexes; altricial young fledge at 45–49 days.	75	30–75	15–30
Vaux's Swift	*Chaetura vauxi*	Cavities in redwoods, other conifers, and occasionally sycamores, chimneys, and buildings.	Up to 50 feet	May through August; single brood.	Clutch incubated for 18–20 days; altricial young fledge at approximately 28 days.	75	30–75	15–30
White-throated Swift	*Aeronautes saxatalis*	Rock cracks and crevices on cliffs and tall bridges.	10–195 feet	May through July; single brood.	Clutch incubated for 20–27 days; altricial young fledge at 40–46 days.	75	30–75	15–30
Black-chinned Hummingbird	*Arcgilochus alexandri*	Cup nests in trees and shrubs in woodlands, urban areas, and other habitats with nectar sources.	4–10 feet	April through June; two or three broods.	Clutch incubated for 13–16 days by female; altricial young fledge at approximately 21 days.	50	20–50	15–20

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Anna's Hummingbird	*Calypte anna*	Cup nests in trees and shrubs in woodlands, urban areas, and other habitats with nectar sources.	1–30 feet	December through June; two or three broods.	Clutch incubated for 16–17 days by female; altricial young fledge at 25–26 days.	50	20–50	15–20
Costa's Hummingbird	*Calypte costae*	Cup nests in trees and shrubs in riparian scrub, urban areas, and other habitats with nectar sources.	4–5 feet	April through July; single or occasionally double brood.	Clutch incubated for 15–18 days by female; altricial young fledge at 20–23 days.	50	20–50	15–20
Calliope Hummingbird	*Stellula calliope*	Cup nests in montane or riparian woodlands.	2–70 feet	May through August; single brood.	Clutch incubated for 15–16 days by female; altricial young fledge at 21–23 days.	50	20–50	15–20
Allen's Hummingbird	*Selasphorus sasin*	Cup nests in shrubs, trees, or vines in a variety of forest and woodland types, as well as coastal scrub.	1–10 feet; occasionally as high as 90 feet	February through August; double brood.	Clutch incubated for 16–22 days by female; altricial young fledge at approximately 22 days.	50	20–50	15–20
Belted Kingfisher	*Ceryle alcyon*	Burrow in banks near fresh water.	Ground	April through July; single brood.	Clutch incubated for 23–24 days by both sexes; altricial young fledge at 30–35 days.	100	50–100	25–50
Lewis's Woodpecker	*Melanerpes lewis*	Cavities in snags or dead branches in oak woodlands and mixed hardwood forests.	5–80 feet	May through July; single brood.	Clutch incubated for 13–14 days by both sexes; altricial young fledge at 28–34 days.	50	15–50	10–15
Acorn Woodpecker	*Melanerpes formicivorous*	Cavities in trees or snags in open woodlands, partly wooded areas, or utility poles near a source of acorns.	5–25 feet	April through July; two or three broods.	Clutch incubated for approximately 11 days by both sexes; altricial young fledge at approximately 31 days.	50	15–50	10–15

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Red-breasted Sapsucker	*Sphyrapicus ruber*	Cavities in trees or snags in coniferous or mixed forest.	5–45 feet	May through June; single brood.	Clutch incubated for 12–14 days by both sexes; altricial young fledge at 23–28 days.	50	15–50	10–15
Williamson's Sapsucker	*Sphyrapicus thyroideus*	Tree cavities in conifer and mixed conifer-deciduous forests.	8–52 feet	Late April through late July; single brood.	Clutch incubated 12–14 days by both sexes; altricial young fledge at 31–32 days.	50	15–50	10–15
Ladder-backed Woodpecker	*Picoides scalaris*	Cavities in trees and cactus.	4-20 feet	Unknown in CA; single brood.	Clutch incubated 14 days by both sexes; altricial young with unknown fledging period.	50	15–50	10–15
Nuttall's Woodpecker	*Picoides nuttallii*	Cavities in trees or snags in oak woodlands, or less frequently riparian or other woodlands.	2–60 feet	April through June; single brood.	Clutch incubated for approximately 14 days by both sexes; altricial young fledge at approximately 29 days.	50	15–50	10–15
Downy Woodpecker	*Picoides pubescens*	Cavities in trees or snags in riparian or other deciduous woodlands, or less frequently in coniferous forests.	3–44 feet	April through May; double brood.	Clutch incubated for approximately 12 days by both sexes; altricial young fledge at 20–22 days.	50	15–50	10–15
Hairy Woodpecker	*Picoides villosus*	Cavities in snags or dead branches in woodlands and coniferous forests.	3–102 feet	March through August; single brood.	Clutch incubated for 11–15 days by both sexes; altricial young fledge at 28–30 days.	50	15–50	10–15
White-headed Woodpecker	*Picoides albolarvatus*	Cavities in snags or stumps at least 2 feet in diameter in pine forests.	6–50 feet	April through August; single brood.	Both sexes incubate clutch for 13–15 days; altricial young fledge at approximately 26 days.	50	15–50	10–15

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Northern Flicker	*Colaptes auratus*	Cavities in tree trunks or snags in open or sparsely wooded areas; more often in live wood.	8–45 feet	April through June; single brood.	Clutch incubated for 11–13 days by both sexes; altricial young fledge at 25–28 days.	50	15–50	10–15
Pileated Woodpecker	*Dryocopus pileatus*	Cavities in snags or dead branches in mature forests.	15–70 feet	March to July; single brood	Clutch incubated for approximately 18 days by both sexes; altricial young fledge at 26–28 days.	50	15–50	10–15
Olive-sided Flycatcher	*Contopus cooperi*	Cup nest in trees in open conifer forest or mixed woodland.	5–70 feet	June through July; single brood.	Clutch incubated for 16–17 days by female; altricial young fledge at 15–19 days.	75	30–75	15–30
Western Wood-Pewee	*Contopus sordidulus*	Cup nests in trees, mainly coniferous but sometimes deciduous woodlands near watercourses.	15–30 feet	May through July; single brood.	Clutch incubated for approximately 12 days by female; altricial young fledge at 14–18 days.	75	30–75	15–30
Willow Flycatcher (Southwestern, Little, *adastus*)	*Empidonax traillii extimus/brewsteri/adastus*	Cup nests in densely vegetated riparian associations of cottonwoods and willows.	5–20 feet	May through July; single brood.	Clutch incubated for 12–13 days by female; altricial young fledge at 14 days.	300	CR	CR
Vermilion Flycatcher	*Pyrocephalus rubinus*	Loosely constructed nest in wooded riparian areas.	8-55 feet	Mid-March through mid-July; single or double brood.	Clutch incubated for 14-15 days by female; altricial young fledge at 14-16 days.	75	30–75	15–30
Hammond's Flycatcher	*Empidonax hammondii*	Cup nests in trees in forests and woodlands.	6–65 feet	May through July; single brood.	Clutch incubated for 12–15 days by female; altricial young fledge at 17–18 days .	75	30–75	15–30

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Dusky Flycatcher	*Empidonax oberholseri*	Cup nests in small trees or shrubs pine forests	3–20 feet	May through July; single brood.	Clutch incubated for 12–15 days by female; altricial young fledge at approximately 18 days.	75	30–75	15–30
Western (Pacific-slope and Cordilleran) Flycatcher	*Empidonax difficilis/occidentalis*	Cup nests in cavities or tree stumps or on ledges or crevices in woodlands and forests often in riparian areas.	0–30 feet	April through July; sometimes double brood.	Clutch incubated for 14–15 days by female; altricial young fledge at 15–18 days.	75	30–75	15–30
Black Phoebe	*Sayornis nigricans*	Cup nests of mud cemented to vertical structures, often under an overhang.	3–10 feet	March through June; double brood.	Clutch incubated for 15–18 days by female; altricial young fledge at approximately 21 days.	75	30–75	15–30
Say's Phoebe	*Sayornis saya*	Cup nests on ledges with overhang or under a bridge; nest not made of mud like black phoebe.	0–79 feet	March through June; double brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 14–18 days.	75	30–75	15–30
Ash-throated Flycatcher	*Myiarchus cinerascens*	Cavities in trees and other structures in open deciduous woodland.	2–70 feet	May through July; single brood.	Clutch incubated for approximately 15 days by female; altricial young fledge at 16–17 days.	50	15–50	10–15
Cassin's Kingbird	*Tyrannus vociferans*	Cup nests in trees in savannahs and other open habitats.	25–74 feet	April through June; double brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 14 days.	75	30–75	15–30
Western Kingbird	*Tyrannus verticalis*	Cup nests in trees and artificial structures (e.g., power poles) in variety of open habitats.	13–55 feet	April through June; double brood.	Clutch incubated for 12–14 days by both sexes; altricial young fledge at 13–19 days.	75	30–75	15–30

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Loggerhead Shrike	*Lanius ludovicianus*	Cup nests in dense shrubs near grasslands and other open habitats.	3–8 feet	February through June; two or three broods.	Clutch incubated for 14–16 days by female while male provisions her; altricial young fledge at 17–21 days.	75	30–75	15–30
Least Bell's Vireo	*Vireo bellii pusillus*	Cup nests in dense shrubs and small trees in dense riparian areas.	1–3 feet	April through August; double brood.	Clutch incubated for approximately 14 days by both sexes; altricial young fledge at 10–12 days.	500	CR	CR
Arizona Bell's Vireo	*Vireo bellii arizonae*	Cup nests in dense shrubs and small trees in dense riparian areas.	1–3 feet	April through August; double brood.	Clutch incubated for approximately 14 days by both sexes; altricial young fledge at 10–12 days.	500	CR	CR
Cassin's Vireo	*Vireo cassinii*	Cup nests in a trees or shrubs in oak or oak-coniferous or mixed riparian woodland.	5–35 feet	April through July; single brood.	Clutch incubated for approximately 15 days by both sexes; altricial young fledge at 13 days.	75	30–75	15–30
Hutton's Vireo	*Vireo huttoni*	Cup nests on a twig forks in oaks and other trees along streams and canyons.	3–45 feet	March thorugh June; single or double brood.	Clutch incubated for 14–16 days by both sexes; altricial young fledge at approximately 14 days.	75	30–75	15–30
Warbling Vireo	*Vireo gilvus*	Cut nests high in trees in mature oak woodlands and mixed deciduous forests.	20–60 feet	May through July; double brood.	Clutch incubated for 12–13 days by both sexes; altricial young fledge at approximately 14 days.	75	30–75	15–30
Gray Vireo	*Vireo vicinior*	Nests in thorn scrub or pinyon-juniper woodland, low in thorny or twiggy shrub or tree.	2–8 feet	Mid-April through mid-August	Clutch incubated 13-14 days by both sexes; altricial young fledge at 13-14 days.	75	30–75	15–30

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Gray Jay	*Perisoreus canadensis*	Cup nests in shrubs or trees in coniferous forests and sometimes oak woodlands.	5–30 feet	March through July; single brood.	Clutch is incubated for 16–18 days; altricial young fledge at approximately 15 days.	75	30–75	15–30
Steller's Jay	*Cyanocitta stelleri*	Cup nests in trees or shrubs in coniferous or mixed hardwood forests or other woodlands.	7–16 feet	April through June; likely single brood.	Clutch incubated for approximately 16 days by female while male provisions her; altricial young fledge at 18 days.	75	30–75	15–30
Western Scrub-jay	*Aphelocoma californica*	Platform nests in shrubs, trees, bushes or vine tangles in a wide variety of habitats, including oak woodlands, savannah, agricultural, and suburban.	2–50 feet	March through June; single brood.	Clutch incubated for 15–17 days by female while male provisions her; altricial young fledge at 18 days.	75	30–75	15–30
Pinyon Jay	*Gymnorhinus cyanocephalus*	Cup nests in trees in ponderosa-pine forest.	3–115 feet	Mid-March through late June; single brood.	Clutch incubated 17 days by female, male provisions female; altricial young fledge at 21–22 days.	75	30–75	15–30
Clark's Nutcracker	*Nucifraga columbiana*	Cup nests in pines, junipers, and firs in mountain coniferous forests.	8–45 feet	February through August; single brood.	Clutch incubated for 16–18 days by both sexes; altricial young fledge at approximately 22 days.	75	30–75	15–30
Yellow-billed Magpie	*Pica nuttallii*	Platform nests in oak trees and occasionally other trees in savannah.	30–80 feet	February through July; single brood.	Clutch incubated for 16–18 days by female while male provisions her; altricial young fledge at approximately 30 days.	75	30–75	15–30

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American Crow	*Corvus brachyrhynchos*	Platform nests in variety of large trees, usually near the trunk, and artificial structures in a wide variety of habitats.	10–70 feet	February through July; single brood.	Clutch incubated for approximately 18 days by female and possibly helpers; altricial young fledge at 35 days.	50	30–50	15–30
Common Raven	*Corvus corax*	Platform nests on sheltered rock ledges or in forks of large trees and artificial structures in a wide variety of habitats.	45–80 feet	February through July; single brood.	Clutch incubated for 20–21 days by female while male provisions her; altricial young fledge at 35–42 days.	50	30–50	15–30
Western Bluebird	*Sialia mexicana*	Cavities in woodland clearings, savannahs, and other open habitats.	4–48 feet	April through June; double brood.	Clutch incubated for 13–14 days by female; altricial young fledge at approximately 20 days.	50	15–50	10–15
Townsend's Solitaire	*Myadestes townsendi*	Cup nests on ground usually on cutbanks and other slopes in mountain coniferous forests.	0–12 feet	April through June; single or double brood.	Clutch incubated for 11–14 days by female; altricial young fledge at 10–14 days.	75	30–75	15–30
Swainson's Thrush	*Catharus ustulatus*	Cup nests in dense shrubs, often in riparian woodlands and mixed coniferous forests.	2–20 feet	April through August; single or (rarely) double brood.	Clutch incubated for 10–13 days by female; altricial young fledge after 10–12 days.	75	30–75	15–30
Hermit Thrush	*Catharus guttatus*	Cup nests in dense shrubs variety of forests and woodlands.	2–10 feet	June through July; single or double brood.	Clutch incubated for 12–13 days by female; altricial young fledge at 12–13 days.	75	30–75	15–30
American Robin	*Turdus migratorius*	Cup nests in trees or shrubs, ledges of buildings, or in a tree forks in variety of open habitats.	3–25 feet	May through July; two or three broods.	Clutch incubated for 11–14 days by female; altricial young fledge at 14–16 days.	75	30–75	15–30

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Varied Thrush	*Ixoreus maevius*	Cup nests on horizontal branches of trees in moist coniferous forests.	5–20 feet	April through August; double brood.	Clutch incubated for approximately 14 days by female; altricial young fledge at 13–15 days.	75	30–75	15–30
Horned Lark	*Eremophila alpestris*	Scrapes in a small hollow usually sheltered by plant tufts in grasslands and other open habitats.	Ground	February through August; two or three broods.	Clutch incubated for 10–14 days by female; altricial young fledge at 9–12 days.	75	30–75	15–30
Purple Martin	*Progne subis*	Cavities in trees in mountain forests, particularly burned areas with snags.	10–34 feet	April through August; single brood	Clutch incubated for 15–18 days by the female; altricial young fledge at 24–31 days.	75	30–75	15–30
Tree Swallow	*Tachycineta bicolor*	Cavities in open habitats, such as grasslands or wetlands with dead standing trees; usually near water.	10–16 feet	April through August; double brood.	Clutch is incubated for 13–16 days; altricial young fledge at 16–20 days.	50	30–50	15–30
Violet-green Swallow	*Tachycineta thalassina*	Cavities or occasionally on cliffs or banks in deciduous, coniferous, and mixed woodlands.	9–17 feet	April through August; single brood.	Clutch is incubated for 13–15 days; altricial young fledge at 16–24 days.	50	30–50	15–30
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*	Cavities on a steep slope or use crevices and holes in bridges and buildings.	Ground/cliff	April through June; single brood.	Clutch incubated for 15–16 days by female; altricial young fledge at 18–21 days.	75	30–75	15–30
Bank Swallow	*Riparia riparia*	Cavities in sandy banks or cliffs along rivers.	Ground/cliff	May through July; single brood.	Clutch incubated for 12–16 days by both sexes; altricial young fledge at 18–24 days.	100	CR	CR

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Barn Swallow	*Hirundo rustica*	Cup nests often on buildings and bridges in open habitats near water.	6–40 feet	April through July; double brood.	Clutch incubated for 14–16 days by both sexes; altricial young fledge at 17–24 days.	50	30–50	15–30
Cliff Swallow	*Petrochelidon pyrrhonota*	Closed mud nests often on cliff faces, buildings, or bridges in open habitats near water.	5 feet and higher	April through June; double brood.	Clutch incubated for 12–14 days by both sexes; altricial young fledge at approximately 23 days.	50	30–50	15–30
Mountain Chickadee	*Poecile gambeli*	Cavities in trees in coniferous mountain forests.	16–50 feet	April through August; single or double brood.	Clutch is incubated for 14 days; altricial young fledge at 20 days.	50	15–50	10–15
Chestnut-backed Chickadee	*Poecile rufescens*	Cavities trees in coniferous forests and deciduous woodlands.	0–80 feet	March through July; single or (rarely) double brood.	Clutch is incubated for 12–14 days by female; altricial young fledge at 18–21 days.	50	15–50	10–15
Oak Titmouse	*Baeolophus inornatus*	Cavities in trees in oak woodlands.	2–40 feet	March through June; single brood.	Clutch incubated for 14–16 days by female; altricial young fledge at 17 days.	50	15–50	10–15
Bushtit	*Psaltriparus minimus*	Pendulous nests in trees and shrubs in a variety of habitats.	3–98 feet	February through June; double brood.	Clutch incubated for 12–13 days by both sexes; altricial young fledge at 14–15 days.	50	30–50	15–30
Red-breasted Nuthatch	*Sitta canadensis*	Cavities in trees in coniferous forests and mixed woodlands.	5–40 feet	April through July; single or (rarely) double brood.	Clutch incubated for approximately 12 days by female while male provisions her; altricial young fledge at 18–21 days.	75	30–75	15–30
White-breasted Nuthatch	*Sitta carolinensis*	Cavities in trees in deciduous woodlands and mixed coniferous forests.	1–50 feet	March through June; single brood.	Clutch incubated for 12–14 days by female while male provisions her; altricial young fledge at 14–16 days.	50	15–50	10–15

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Pygmy Nuthatch	*Sitta pygmaea*	Cavities in dead trees or dead portions of trees in long-needled pine forests.	20–70 feet	May through July; single or double brood.	Clutch incubated for 15–16 days by female while male provisions her; altricial young fledge at 20–21 days.	75	30–75	15–30
Brown Creeper	*Certhia americana*	Cup nests concealed behind loose bark, in crevices on a trees in coniferous forests and mixed coniferous forests..	5–15 feet	May through July; single brood.	Clutch incubated for 15–18 days by female while male provisions her; altricial young fledge at 21 days.	75	30–75	15–30
Rock Wren	*Salpinctes obsoletus*	Cavities on rocky slopes	Ground/cliff	March through June; double or triple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 14–16 days.	75	30–75	15–30
Canyon Wren	*Catherpes mexicanus*	Cup nests in rock crevices or ledges in rocy habitats.	Ground/cliff	March through July; double brood.	Clutch incubated for 12–18 days by female; altricial young fledge at approximately 15 days.	75	30–75	15–30
Bewick's Wren	*Thryomanes bewickii*	Cavities in trees, brush, or between rocks in open woodlands and shrubby areas.	0–20 feet	March through July; double or triple brood.	Clutch incubated for approximately 14 days by female while male provisions her; altricial young fledge at approximately 14 days.	75	30–75	15–30
House Wren	*Troglodytes aedon*	Cavities in shrubby cover and thickets in open woodlands and hedgerows.	0–20 feet	April through July; double brood.	Clutch incubated for 13–15 days by female; altricial young fledge at 12–18 days.	50	30–50	15–30
Pacific Wren	*Troglodytes pacificus*	Cavities or crevices in logs, stumps, root balls, or trees in variety of forests.	0–10 feet	March through August; single or double brood.	Clutch is incubated for 14–17 days by female; altricial young fledge at approximately 19 days.	75	30–75	15–30

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Marsh Wren	*Cistothorus palustris*	Domed nests over the water in tall rushes and marsh grasses in wetland habitats.	1–5 feet	March through July; double or triple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 13–15 days.	75	30–75	15–30
American Dipper	*Cinclus mexicanus*	Domed nests in crevices in rocks, logs, bridges, or other protected areas immediately adjacent to water.	0–30 feet	March through August; single or double brood.	Clutch is incubated for approximately 16 days by female; altricial young fledge at 18–25 days.	75	30–75	15–30
Golden-crowned Kinglet	*Regulus satrapa*	Hanging nests woven onto conifer twigs in coniferous forests and mixed woodlands.	6–50 feet	May through August; single or double brood.	Clutch is incubated for 14–15 days by female; altricial young fledge at 16–19 days.	75	30–75	15–30
Ruby-crowned Kinglet	*Regulus calendula*	Cup nests in trees in coniferous woodlands.	4–100 feet	May through July; single brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 16 days.	75	30–75	15–30
Blue-gray Gnatcatcher	*Polioptila caerulea*	Cup nests in trees or shrubs in a variety of habitats from shrublands to mature forests.	3–80 feet	April through July; double brood.	Clutch incubated for approximately 15 days by both sexes; altricial young fledge at 12–13 days.	75	30–75	15–30
Coastal California Gnatcatcher	*Polioptila californica californica*	Cup nests in coastal sage scrub and chaparral.	2–3 feet	February through August; double brood.	Clutch incubated for approximately 14 days by both sexes; altricial young fledge at 15–16 days.	500	CR	CR
Wrentit	*Chamaea fasciata*	Cup nests in coastal sage scrub and chaparral.	1–4 feet	March through July; double brood.	Clutch incubated for 15–16 days by both sexes; altricial young fledge at 15–16 days.	75	30–75	15–30

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Northern Mockingbird	*Mimus polyglottos*	Cup nests in shrubs and trees in variety of habitats, including woodlands and in developed areas.	3–10 feet	March through July; double or triple brood.	Clutch incubated for 11–14 days by female; altricial young fledge at 12–14 days.	75	30–75	15–30
Sage Thrasher	*Oreoscoptes montanus*	Cup nests in low shrubs in sagebrush habitat.	2–3 feet	April through August; single or double brood.	Clutch is incubated for 13–17 days; altricial young fledge at approximately 11 days.	75	30–75	15–30
Le Conte's Thrasher	*Toxostoma lecontei*	Cup nests in cholla or a low tree, in desert areas with shrubby growth.	2–8 feet	February through June; double or triple brood.	Clutch incubated for 14–20 days by both sexes; altricial young fledge at 14–17 days.	75	30–75	15–30
California Thrasher	*Toxostoma redivivum*	Cup nests in low trees or shrubs in sage scrub and chaparral.	2–4 feet	February through July; double brood.	Clutch incubated for approximately 14 days by both sexes; altricial young fledge at 12–14 days.	75	30–75	15–30
Bendire's Thrasher	*Toxostoma bendirei*	Cup nests in shrubs, cacti, or trees.	2–5 feet	Late February through April; single, double, or triple brood.	Clutch incubated 12–14 days by both parents; altricial young fledge at 12–13 days.	75	30–75	15–30
Cedar Waxwing	*Bombycilla cedrorum*	Cup nests in forks of trees in riparian or redwood forests.	5–50 feet	June through August; single or double brood.	Clutch is incubated for 12–14 days; altricial young fledge at 16–18 days	75	30–75	15–30
Phainopepla	*Phainopepla nitens*	Cup nests in trees in desert scrub and coastal chaparral.	6–11 feet	Late February—desert; April through June—coastal; double brood.	Clutch incubated for 14–15 days by both sexes; altricial young fledge at 18–19 days.	75	30–75	15–30

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Orange-crowned Warbler	*Oreothlypis celata*	Cup nests on the ground or in crevices near ground in a variety of habitats, often where woodland and chaparral habitats meet.	Ground	April through July; single or double brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 12–13 days.	75	30–75	15–30
Nashville Warbler	*Oreothlypis ruficapilla*	Cup nests on ground concealed in bushes or small trees in woodland edges or shrubby areas.	Ground	May through July; single brood.	Clutch incubated for 11–12 days by female; altricial young fledge at 11 days.	75	30–75	15–30
Yellow Warbler	*Setophaga petechia*	Cup nests in trees or shrubs in shrubby growth in riparian areas.	2–12 feet	April through July; single brood.	Clutch incubated for 11–12 days by female; altricial young fledge at days.	75	30–75	15–30
Yellow-rumped Warbler	*Setophaga coronata*	Cup nests in trees in coniferous woodlands.	4–50 feet	April through July; single or (rarely) double brood.	Clutch incubated for 12–13 days by female; altricial young fledge at 12–14 days.	75	30–75	15–30
Black-throated Gray Warbler	*Setophaga nigrescens*	Cup nests in trees or shrubs in open woodlands in mountainous areas.	8–35 feet	May through July; single or double brood.	Clutch incubated by female; young are altricial. Length of incubation period and age at fledging undocumented.	75	30–75	15–30
Hermit Warbler	*Setophaga occidentalis*	Cup nests high in trees in coniferous forests	20–40 feet	May through July; single brood.	Clutch incubated for approximately 12 days by both sexes; altricial young fledge at 8–10 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
MacGillivray's Warbler	*Geothlypis tolmiei*	Cup nests in low thick shrub in riparian woodlands and coniferous or mixed forests.	1–5 feet	May through July; single brood.	Clutch incubated for 11–13 days by female; altricial young fledge at 8–10 days.	75	30–75	15–30
Common Yellowthroat	*Geothlypis trichas*	Cup nests in reeds and other wetland vegetation over water or near water.	1–3 feet	April through July; single brood.	Clutch incubated for approximately 12 days by female; altricial young fledge at 9–10 days.	75	30–75	15–30
Wilson's Warbler	*Cardellina pusilla*	Cup nests on ground, hidden by vegetation in shrub habitats in forests and chaparral.	Ground	April through June; single or (rarely) double brood.	Clutch incubated for 11–13 days by female; altricial young fledge at 10–11 days.	75	30–75	15–30
Yellow-breasted Chat	*Icteria virens*	Cup nests in a dense shrub or tangle in thick riparian vegetation.	1–8 feet	April through July; single or (rarely) brood.	Clutch incubated for 11–12 days by female; altricial young fledge at 8–11 days.	75	30–75	15–30
Western Tanager	*Piranga ludoviciana*	Cup nests high in trees on outer branches in coniferous and mixed hardwood forests.	8–75 feet	May through July; single brood.	Clutch incubated for approximately 13 days by female; altricial young fledge at 10–11 days.	75	30–75	15–30
Green-tailed Towhee	*Pipilo chlorulus*	Cup nests in or at base of low shrubs in chaparral and disturbed (low growth) forest habitats.	0–2 feet	April through August; single or double brood.	Clutch incubated for 11–13 days by female; altricial young fledge at 11–14 days.	75	30–75	15–30
Spotted Towhee	*Pipilo maculatus*	Cup nests usually on the ground or very low in bushes shrubby habitats.	2–12 feet	April through July; single or double brood.	Clutch incubated for 12–13 days by female; altricial young fledge at approximately 9 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
California Towhee	*Melozone crissalis*	Cup nests in shrubs or small trees in brushy habitats.	4–12 feet	March through July; double or triple brood.	Clutch incubated for approximately 14 days by female; altricial young fledge at approximately 10 days.	75	30–75	15–30
Rufous-crowned Sparrow	*Aimophila ruficeps*	Cup nests at the base of a grass clumps, in dry rocky areas with sparse undergrowth.	0–2 feet	April through June; single or double brood.	Clutch incubated for 11–13 days by female; altricial young fledge at 9 days.	75	30–75	15–30
Chipping Sparrow	*Spizella passerina*	Cup nests in trees or shrubs in open woodlands.	3–20 feet	April through July; double brood.	Clutch incubated for 11–14 days by female; altricial young fledge at 9–12 days.	75	30–75	15–30
Black-chinned Sparrow	*Spizella atrogularis*	Cup nests in shrubs in chaparral habitat.	1–3 feet	April through August; single brood.	Clutch incubated for 12–13 days by female; altricial young fledge at approximately 10 days.	75	30–75	15–30
Lark Sparrow	*Chondestes grammacus*	Cup nests usually in scrapes on ground in open grasslands, or cup nests in herbaceous or woody shrubs.	0–9 feet	April through July; double brood.	Clutch incubated for 11–13 days by female; altricial young fledge at 9–10 days.	75	30–75	15–30
Black-throated Sparrow	*Amphispiza bilineata*	Cup nests in thorny shrubs or cactus in chaparral or desert habitats.	1 foot	April through June; single or double brood.	Clutch incubated for 12–13 days by female; altricial young fledge at approximately 9.5 days.	75	30–75	15–30
Sage Sparrow	*Artemisiospiza belli*	Cup nests in thick bushes in chaparral and desert habitats.	1 foot	March through June; double brood.	Clutch incubated for 10–16 days by female; altricial young fledge at 9–10 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Bryant's Savannah Sparrow	*Passerculus sandwichensis alaudinus*	Cup nests on ground in dense, moist grasslands, ruderal vegetation, or saltmarsh vegetation.	Ground	April through July; single or double brood.	Clutch incubated for 10–13 days; altricial young fledge at 7–14 days.	75	30–75	15–30
Belding's Savannah Sparrow	*Passerculus sandwichensis beldingi*	Cup nests on ground in dense, moist grasslands, ruderal vegetation, or saltmarsh vegetation.	Ground	April through July; single or double brood.	Clutch incubated for 10–13 days; altricial young fledge at 7–14 days.	75	CR	CR
Grasshopper Sparrow	*Ammodramus savannarum*	Ground nest at the base of bunchgrass or other vegetation in grasslands.	Ground	April through July; double or triple brood.	Clutch incubated for 11–12 days by female; altricial young fledge after 9 days.	75	30–75	15–30
Song Sparrow	*Melospiza melodia*	Cup nests in low grass and shrubs or thickets in a variety of forest, shrub, grassland, marsh, and riparian habitats.	1–3 feet	March through July; double, triple, or quadruple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 10 days.	75	30–75	15–30
Suisun Song Sparrow	*Melospiza melodia maxillaris*	Cup nests in low grass and shrubs or thickets in a variety of forest, shrub, grassland, marsh, and riparian habitats.	1–3 feet	March through July; double, triple, or quadruple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 10 days.	75	30–75	15–30
Alameda Song Sparrow	*Melospiza melodia pusillula*	Cup nests in low grass and shrubs or thickets in a variety of forest, shrub, grassland, marsh, and riparian habitats.	1–3 feet	March through July; double, triple, or quadruple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 10 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
San Pablo Song Sparrow	*Melospiza melodia samuelis*	Cup nests in low grass and shrubs or thickets in a variety of forest, shrub, grassland, marsh, and riparian habitats.	1–3 feet	March through July; double, triple, or quadruple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 10 days.	75	30–75	15–30
Lincoln's Sparrow	*Melospiza lincolnii*	Cup nests in depressions on the ground in shrubby growth at forest edges, clearings; often near wet areas	Ground	May through July; double brood.	Clutch incubated for 13–14 days by female; altricial young fledge at 10–12 days.	75	30–75	15–30
White-crowned Sparrow	*Zonotrichia leucophrys*	Cup nests on ground or in shrubs or small trees in coastal or mountain chaparral and mountain forests.	0–5 feet	May through September; double or triple brood.	Clutch incubated for 9–15 days; altricial young fledge at 9–11 days	50	30–50	15–30
Dark-eyed Junco	*Junco hyemalis*	Cup nests in depressions on the ground among tree roots or brush in variety of woodland habitats; also on building ledges or in trees.	Ground, but up to 8 feet on ledges or trees	April through July; double or triple brood.	Clutch incubated for 12–13 days by female; altricial young fledge at 10–13 days.	50	30–50	15–30
Black-headed Grosbeak	*Pheucticus melanocephalus*	Cup nests in trees or shrubs in thickets, under trees along streams in riparian woodlands or coniferous or mixed forests near edges.	6–12 feet	April through July; single brood.	Clutch incubated for 12–13 days by both sexes; altricial young fledge at 12 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Blue Grosbeak	*Guiraca caerulea*	Cup nests small trees, shrubs, or other low vegetation, usually near open areas in desert, chaparral, savannah, and forest edge habitats.	<1–16 feet	April through August; single or double brood.	Clutch incubated for 11–12 days by female; altricial young fledge at 9–13 days.	75	30–75	15–30
Lazuli Bunting	*Passerina amoena*	Cup nests in low thick shrubby riparian or chaparral habitat.	1–10 feet	May through July; double brood.	Clutch incubated for approximately 12 days by female; altricial young fledge at 10–15 days.	75	30–75	15–30
Red-winged Blackbird	*Agelaius phoeniceus*	Cup nests in cattails, bulrushes, and other marsh vegetation or in shrubs in grasslands and shrubby habitats.	1–13 feet	March through June; double brood.	Clutch incubated for 10–12 days by female; altricial young fledge at 10–11 days.	75 350 (Kern Red-winged Blackbird)	30–75 200–350 (Kern Red-winged Blackbird)	15–30 100–200 (Kern Red-winged Blackbird)
Tricolored Blackbird	*Agelaius tricolor*	Cup nests in cattails and bulrushes in marshes and shrubby areas in uplands and agricultural areas. Colonial nester.	1–5 feet	April through June; double brood.	Clutch incubated for approximately 11 days by female; altricial young fledge at 13 days.	350	CR	CR
Yellow-headed Blackbird	*Xanthocephalus xanthocephalus*	Cup nests cattails or other emergent vegetation over water in marshes with thick vegetative growth. Colonial nester.	2–3 feet	May through June; single brood.	Clutch incubated for 10–13 days by female; altricial young fledge at 9–12 days old	350	200–350	100–200
Brewer's Blackbird	*Euphagus cyanocephalus*	Cup nests high in trees or shrubs near water in agricultural or suburban/urban areas.	8–43 feet	March through July; single or double brood.	Clutch incubated for 12–13 days by female; altricial young fledge at approximately 13 days.	50	30–50	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Western Meadowlark	*Sturnella neglecta*	Domed nests on ground in open grasslands.	Ground	March through June; double brood.	Clutch incubated for 13–15 days by female; altricial young fledge at 10–12 days.	75	30–75	15–30
Hooded Oriole	*Icterus cucullatus*	Closed cup nests high in trees (often palm treets) or shrubs, often in riparian habitat and in suburban areas.	10–45 feet	April through August; double or triple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at approximately 14 days.	75	30–75	15–30
Bullock's Oriole	*Icterus bullockii*	Pensile cup nests in twig fork of trees in riparian and oak woodlands.	6–15 feet	April through July; single brood.	Clutch incubated for approximately 14 days by female; altricial young fledge at approximately 14 days.	75	30–75	15–30
Pine Grosbeak	*Pinicola enucleator*	Cup nests near the end of horizontal tree branches in coniferous forests.	16–35 feet	May through August; single brood.	Clutch incubated for 13–14 days by female; altricial young fledge at approximately 14 days.	75	30–75	15–30
Purple Finch	*Haemorhous purpureus*	Cup nests high in trees well hidden by foliage, in coniferous forests and woodlands.	5–60 feet	April through June; double brood.	Clutch incubated for approximately 13 days by female; altricial young fledge at approximately 14 days.	75	30–75	15–30
House Finch	*Haemorhous mexicanus*	Cup nests in trees, building ledges, and other locations in urban/suburban, agriculture, woodlands, desert, and chaparral habitats.	5–7 feet	March through July; double or triple brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 14–16 days.	50	15–30	10–15
Red Crossbill	*Loxia curvirostra*	Loose cup constructed near the end of horizontal branch in coniferous forests.	6–60 feet	February through June; single brood.	Clutch incubated for 12–16 days by female; altricial young fledge at 17–22 days.	75	30–75	15–30

Common Name	Scientific Name	Nest Location, Substrate, and Habitat	Vertical Height	Peak Breeding Season/Number of Broods per Season	Incubation Duration/Chick-rearing Duration	Standard Buffer* (feet)	Medium to High Disturbance Category Buffer (feet)	Low to Medium Disturbance Category Buffer (feet)
Pine Siskin	*Spinus pinus*	Cup nest constructed on conifer or hardwood in coniferous or mixed hardwood forests.	3–50 feet	April through July; single or double brood.	Clutch incubated for approximately 13 days; altricial young fledge at 14–15 days.	75	30–75	15–30
Lesser Goldfinch	*Spinus psaltria*	Cup nests in trees and shrubs in a variety of open habitats including oak woodlands, mixed coniferous forests, riparian woodlands, chaparral, agricultural and suburban habitats.	3–36 feet	April through July; single or double brood.	Clutch incubated for approximately 12 days by female; altricial young fledge at 11 days.	75	30–75	15–30
Lawrence's Goldfinch	*Spinus lawrencei*	Cup nests in scattered trees in oak woodlands and savannahs.	3–40 feet	April through July; single or (rarely) double brood	Clutch incubated for 12–13 days by female; altricial young fledge at approximately 11 days.	75	30–75	15–30
American Goldfinch	*Spinus tristis*	Cup nests in a variety of shrubs in variety of open habitats including ruderal fields and grasslands with shrub component nearby.	3–10 feet	April through August; single or double brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 11–17 days.	75	30–75	15–30
Evening Grosbeak	*Coccothraustes vespertinus*	Cup nests in fir or other conifers in coniferous forests.	30–60 feet	June through August; single or (rarely) double brood.	Clutch incubated for 12–14 days by female; altricial young fledge at 13–14 days.	75	30–75	15–30

[a] Consultation recommended to perform work within the standard buffer. Confer internally on avoidance and minimization approach.

[b] The 1,320-foot (0.25-mile) buffer applies to the highest noise level category (90 dB or greater measured at 50 feet). Smaller buffers may be appropriate based on the noise levels of the project. Biologists should follow the methodology found in *Estimating the Effects of Auditory and Visual Disturbance to Northern Spotted Owls and Marbled Murrelets in Northwestern California* (U.S. Fish and Wildlife Service 2006) to determine the noise level and appropriate buffer for their specific project.

Appendix D1
Architectural Identification and Evaluation Report

Jacobs

Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Architectural Identification and Evaluation Report

Final

March 2023

Pacific Gas & Electric Company



Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Project No:	D31321DL
Document Title:	Architectural Identification and Evaluation Report
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Client Name:	Pacific Gas and Electric Company
Project Manager:	Colleen Taylor
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Jacobs Engineering Group Inc.

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Executive Summary

Pacific Gas and Electric Company (PG&E) proposes the Northern San Joaquin 230 kV Transmission Project (Project) in San Joaquin County, California (Appendix A, Figure 1). The Project includes construction of a new 230 kilovolt (kV) transmission line that will connect the existing PG&E Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation with Lodi Electric Utility (LEU) Industrial Substation. Three existing PG&E 60 kV lines connecting into LEU Industrial Substation will be removed to accommodate the new PG&E transmission line or will be reconfigured in their existing alignments. A new PG&E switching station near LEU Industrial Substation also is proposed as part of the Project.

Jacobs Engineering Group, Inc. developed this report to present the results of the identification and evaluation of architectural resources in the Area of Potential Impacts (API) for the Project. The report also assesses the potential impacts that may occur to the resources evaluated as eligible for listing in the California Register of Historical Resources (CRHR) and considered historical resources for the purposes of the California Environmental Quality Act (CEQA). The report was completed in compliance with Sections 21083.2 to 21084.1 of the Public Resources Code and with the California Code of Regulations and CEQA Guidelines, Title 14, Chapter 3, Sections 15000 to 15387. Notably, this report does not address archaeology. Refer to the companion to this report, *Cultural Resources Inventory Report for the PG&E Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California*, completed by Far Western Anthropological Research Group, Inc. (Far Western), for information on archaeological investigations for the Project.

The API for the Project encompasses 3,662 acres (Appendix A, Figure 2). It includes the maximum Project footprint and all areas related to the Project's construction, implementation, and operation, including areas anticipated to be used as access roads, staging areas, and laydown areas. In addition, the API accounts for potential visual, atmospheric, and audible impacts. The API includes a 500-foot-radius past the Project footprint in rural areas and one parcel past the Project footprint in suburban and industrial areas when Project improvements include the new transmission line or switching station or substation improvements due to the highly visible nature of these features. The vertical extent of the API will not exceed 155 feet above the existing ground surface for the new transmission line poles and 30 feet above the existing ground surface for the switching station and substation improvements. Representative photographs of the API are included in Appendix B.

As part of the archaeology companion to this report, Far Western conducted a records search in 2021 to identify previously recorded cultural resources (consisting of archaeological and architectural resources) and previously conducted cultural resources investigations within the Project footprint and a 0.25-mile-radius study area surrounding the API. The results of the records search indicated that one architectural resource investigation has been previously conducted within the 0.25-mile-radius study area (Report Number SJ-04506), and that it covered less than 1 percent of the API (Appendix A, Figure 3). Additionally, the records search identified three previously recorded architectural resources within the 0.25-mile-radius study area: California Department of Transportation (Caltrans) Bridge Number 29C-341, which carries East Harney Lane over Paddy Creek, as well as the Southern Pacific Railroad (SPRR) (Primary Number P-39-000002) and Central California Traction Railroad (CCTR) (Primary Number P-39-004457) that intersect the API (Appendix A, Figure 3). The bridge is located immediately south of the API, and has been assigned National Register of Historic Places (NRHP) Status Code 5 by Caltrans, signifying it is not eligible for listing in the NRHP. A small segment of the SPRR within the API is previously recorded based on mapping in the PG&E MapGuide Database cultural layer. However, based on review of past recordation forms for the SPRR as well as historic maps and aerials, the line did not extend through the API. Rather, the geographic information system shape of the previously recorded segment of the SPRR within the API in the MapGuide Database cultural layer appears to be an error. The segment of the CCTR within the API is newly identified. Previously recorded segments of the CCTR either are unevaluated or have been recommend not eligible

for listing in the NRHP and CRHR. Prior to fieldwork, a historic context was developed to facilitate identification and evaluation efforts as part of this report. The historic context was based on records search information and primary and secondary sources available at repositories and online sources. Investigators also reviewed information from the San Joaquin County Assessor and ParcelQuest to identify the age of the resources in the API and determine the date of any major additions or alterations (Appendix A, Figure 4).

An architectural field survey of the entire API was conducted between December 15 and 22, 2022. The survey was conducted from public vantage points and public rights-of-way. If surveyed resources were not visible or accessible from public areas, investigators completed supplemental research to record and evaluate the resources, such as review of current mapping software, historic maps, aerials, historic newspaper databases, city directories, and other sources.

During the survey, investigators took geotagged photographs of each architectural resource constructed on or before the survey cutoff date of 1977, including any accessory resources, and took notes on architectural style, form, condition, and historic integrity. In addition, investigators completed desktop reviews of two Project alternatives (Northern Alternative and Central Alternative) to characterize the general setting, identify common architectural styles and property types, understand construction chronologies, and note alterations and additions to larger properties and individual buildings and structures.

The extent of the API was also field verified to determine if the Project would be visible past the 500-foot-radius buffer surrounding the new transmission line. In several instances, the API was expanded to include the full extent of a parcel and other interrelated properties based on existing conditions, such as flat topography, limited development, and lack of other visual intrusions. Oftentimes, a building cluster would be located immediately outside the API limits; however, since the building cluster was associated with properties within the API, it was recorded as part of an interrelated resource, including the portion outside the API. For example, residences and outbuildings were frequently outside the limits of the API; however, since they were directly and historically associated with agricultural fields and orchards within the API, the entirety of the property was recorded and the API was expanded.

Resources meeting the 1977 survey cutoff date were documented on a survey results matrix included in Appendix C and recorded and evaluated on Department of Parks and Recreation (DPR) 523 series forms included in Appendix D. No resources constructed after the 1977 survey cutoff date appeared to possess exceptional significance; therefore, none of these resources were recorded. In areas where the new transmission line will be constructed alongside an existing transmission line with structures of a similar height as the proposed features, investigators confirmed in the field that no new visual intrusions would occur to properties within the API. This was completed through assessing existing viewsheds from public vantage points, the historic character and setting of the area, building orientation, existing vegetation, topography, and age of existing visual intrusions. If this assessment determined there would be no visual changes from the new line, the resources within the API were not recorded or evaluated as part of this report. Representative photographs of where there would be no visual changes from the new line are included in Appendix B, Photographs 17 through 22.

In total, the API has 188 parcels, 95 of which were constructed prior to 1977. Of these, 68 resources were recorded and evaluated as part of this report (refer to the survey results matrix in Appendix C and DPR 523 series forms in Appendix D). Of these, 67 resources are newly identified and one is a previously unrecorded segment of the CCTR (P-39-004457) within the API. Of the 68 resources, 7 are evaluated as eligible for listing in the CRHR and, therefore, meet the definition of a historical resource for purposes of CEQA for this Project. The recorded resources are mapped in Appendix A, Figure 5. Notably, the survey did not identify any evidence of the previously recorded segment of the SPRR within the API. One resource

(Resource Identifier 62; 13589 East Kettleman Road) was discovered to post-date the 1977 survey cutoff date during post-field research and, therefore, was not recorded or evaluated as part of this report.

No significant impacts will occur to the 7 resources evaluated as eligible for listing in the CRHR. There would be no physical impacts to these resources; therefore, the resources would retain their integrity of location, design, materials, workmanship, feeling, and association. The historic and current uses of these resources would remain intact (e.g., rural residential properties, some of which are engaged in small-scale agriculture on medium sized parcels). In addition, the character-defining features associated with each resource, such as their massing, materials, orientation, and landscape features, would remain intact and would not be diminished by the Project improvements. In most cases, the Project improvements will range from approximately 350 feet to approximately 1,100 feet from contributing resources within the property. Therefore, the resources would continue to convey their significance under their applicable CRHR criteria, such as Criterion 1 for representing early-twentieth century rural residential settlement or Criterion 3 for embodying a distinctive design. While the new transmission line may be visible from certain public vantage points, impacts from Project improvements would be marginal because changes have already impacted the integrity of setting and feeling of those areas. Therefore, a finding of a “Less than Significant Impact to Historical Resources” is recommended for the Project, in accordance with CEQA Guidelines, Appendix G, and Section 21084.1.

A copy of this report will be filed with the Central California Information Center of the California Historical Resources Information System.

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Acronyms and Abbreviations

API	Area of Potential Impacts
APN	assessor's parcel number
Caltrans	California Department of Transportation
CCR	California Code of Regulations
CCTR	Central California Traction Railroad
CEQA	California Environmental Quality Act
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
EBMUD	East Bay Municipal Utility District
Far Western	Far Western Anthropological Research Group, Inc.
Jacobs	Jacobs Engineering Group Inc.
kV	kilovolt
NAHC	Native American Heritage Commission
NPS	National Park Service
NRHP	National Register of Historic Places
NSJWCD	North San Joaquin Water Conservation District
PG&E	Pacific Gas and Electric Company
PRC	Public Resources Code
Project	Northern San Joaquin 230 kV Transmission Project
SJ&SNR	San Joaquin and Sierra Nevada Railroad
SLF	Sacred Lands File
SPRR	Southern Pacific Railroad
SR	State Route
U.S.	United States
UPRR	Union Pacific Railroad
USGS	U.S. Geological Survey

1. Introduction

Pacific Gas and Electric Company (PG&E) proposes the Northern San Joaquin 230 kV Transmission Project (Project) in San Joaquin County, California. The Project is located east of Highway 99, within and east of the City of Lodi (Appendix A, Figure 1).

Jacobs Engineering Group, Inc. (Jacobs) developed this report to present the results of the identification and evaluation of architectural resources in the Area of Potential Impacts (API) for the Project. The report also assesses the potential impacts that may occur to the resources evaluated as eligible for listing in the California Register of Historical Resources (CRHR) and considered historical resources for the purposes of the California Environmental Quality Act (CEQA). Notably, this report does not address archaeology. Refer to the companion to this report, *Cultural Resources Inventory Report for the PG&E Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California*, completed by Far Western Anthropological Research Group, Inc. (Far Western), for information on archaeological investigations completed as part of the Project.

1.1 Project Description

The Project includes construction of a new 230 kilovolt (kV) transmission line that will connect the existing Brighton-Bellota 230 kV transmission line through PG&E Lockeford Substation with Lodi Electric Utility (LEU) Industrial Substation. Three existing PG&E 60 kV lines connecting into LEU Industrial Substation will be removed to accommodate the new PG&E transmission line or will be reconfigured in their existing alignments. A new PG&E switching station near LEU Industrial Substation also is proposed as part of the Project.

1.2 Area of Potential Impacts

For the purposes of this report and to analyze the Project's potential impacts to architectural resources, an API was established for the preferred alignment. The API comprises 3,662 acres (Appendix A, Figure 2). It encompasses the maximum Project footprint and all areas related to the Project's construction, implementation, and operation, including areas anticipated to be used as access roads, staging areas, and laydown areas.

In addition, the API accounts for potential visual, atmospheric, and audible impacts. The API includes a 500-foot radius past the Project footprint in rural areas and one parcel past the Project footprint in suburban and industrial areas when Project improvements include the new transmission line or switching station or substation improvements because of the highly visible nature of these features. The vertical extent of the API will not exceed 155 feet above the existing ground surface for the new transmission line poles and 30 feet above the existing ground surface for the switching station and substation improvements. Representative photographs of the API are included in Appendix B.

1.3 Regulatory Framework

This report was completed pursuant to Sections 21083.2 to 21084.1 of the Public Resources Code and with the California Code of Regulations and CEQA Guidelines Title 14, Chapter 3, Sections 15000 to 15387.

According to the CEQA Guidelines Appendix G, impacts on cultural resources would be considered significant if the Project would result in any of the following:

- Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5.

- Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5.
- Disturb any human remains, including those interred outside of formal cemeteries.

A historical resource is a cultural resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR). Historical resources, as defined in subdivision (k) of Section 4020.1, and included as such in a local register, or deemed significant pursuant to criteria set forth in subdivision (g) of Section 5024.1, are presumed to be historically or culturally significant, unless the preponderance of the evidence demonstrates that the resource is not historically or culturally significant. The fact that a resource is not listed in, or determined to be eligible for listing in, the CRHR, not included in a local register, or not deemed significant pursuant to criteria set forth in subdivision (g) of Section 5024.1, does not preclude a lead agency from determining whether the resource may be a historical resource.

Pursuant to Section 15064.5, a cultural resource is considered to be historically significant if it meets the criteria for listing in the CRHR (PRC Section 5024.1, Title 14 CCR, Section 4852) including the following:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States (U.S.); or
2. Associated with the lives of persons important to local, California, or national history; or
3. Embodies the distinctive characteristics of a type, period, region, or method of construction; or represents the work of an important creative individual; or possesses high artistic values; or
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Historic integrity is the ability of a property to convey its significance and is defined as the authenticity of a resource's historic identity, evidenced by the survival of characteristics that existed during the resource's period of significance. Historical resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity must be evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. A resource that has lost its historic character or appearance may still have sufficient integrity for the CRHR if it maintains the potential to yield significant scientific or historical information or specific data.

CEQA Guidelines also define the significance of impacts to archaeological and historical resources as:

- Substantial adverse change in the significance of a historical resource by physical demolition, destruction, relocation, or alteration of the resource of its immediate surroundings as defined in Section 15064.5.
- Demolishes or materially alters those physical characteristics of a historical resource that conveys its significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR, or inclusion in a local register, as defined in Section 15064.5.

1.4 Project Personnel

This report was completed by Amanda Reese, M.A., Marcia Montgomery, M.A., and Kelly N. Morgan, M.P.S., all Architectural Historians at Jacobs. Ms. Morgan authored Sections 1, 2, and 3. Ms. Montgomery provided assistance with Section 3. Ms. Reese authored the remaining sections. Jeremy Hollins, M.A., Senior Architectural Historian at Jacobs, provided project direction, including oversight of the architectural field survey of the API, and completed a technical review of the report. Ms. Reese, Ms. Morgan, Ms.

Montgomery, and Mr. Hollins meet the Secretary of the Interior's Professional Qualification Standards in Architectural History and History.

2. Background Research

2.1 Records Search

As part of the archaeology companion to this report, Far Western conducted a review of the PG&E MapGuide Database cultural layer in 2021 to identify previously recorded cultural resources and previously conducted cultural resources investigations within the Project footprint and a 0.25-mile-radius study area. The records search completed by Far Western included both archaeological and architectural resources. The cultural layer includes all current files from the Central California Information Center of the California Historical Resources Information System. In addition, Far Western and Jacobs also examined the National Register of Historic Places (NRHP), CRHR, California Inventory of Historic Resources, California Points of Historic Interest, and California Historical Landmarks records as well as the Historic Properties Directory for resources in the API and study area.

The records search indicated that one architectural resource investigation has been previously conducted within the 0.25-mile-radius study area, covering approximately 1 percent of the northwest end of the API (Appendix A, Figure 3). URS Corporation conducted the investigation as part of the proposed Lodi Energy Center Project in 2001. No architectural resources were recorded as a result of the survey. The resultant report, *Lodi Energy Center Cultural Resources (Archaeological and Historic Built Environment Resources) Technical Report* (Report Number SJ-04506), was submitted to the City of Lodi in 2001. The records search also revealed that two regional overviews and two literature search reports cover parts of the API; however, these reports do not include surveys and are not mapped in Appendix A, Figure 3.

The records search identified three previously recorded architectural resources within the 0.25-mile-radius study area, consisting of two railroads that intersect the API and a bridge located 14 feet from the API. Table 2-1 lists these resources, which are mapped in Appendix A, Figure 3. The two railroads within the API are discussed further after the table.

Table 2-1. Previously Recorded Cultural Resources within the API and 0.5-Mile-Radius Study Area

Resource Name; Primary Number	Description	Recorder(s); Date	Eligibility
*Southern Pacific Railroad (SPRR); P-39-000002	The former SPRR alignment in San Joaquin. SPRR operation began in 1869, connecting the San Joaquin Valley with Sacramento and the transcontinental mainline. The alignment currently forms part of the present-day Union Pacific Railroad (UPRR).	Wisely, J.; 2018 Ford, Dawn Ramsey; 2012 Pappas, S., D. Quivey, and K. Tipper; 2011 Rainka, Greg; 2010 Martinez, Jesse; 2008 Jones, E. Timothy; 2006 M.R. Bowen; 2005 Jones & Stokes, 2004 Schmidt, M., C. Baker, and J. Dougherty; 2003 JRP Historical Consulting Services; 2003 Jon L. Brady 2003 Dolan, Christy, and Angel Tomes; 2002 Gross, Charlane; 2002 Byrd, David S.; 2002 Reno, R.; 2002 Windmiller, Ric; 2002 Bakic, Tracy and Cindy Baker; 2001 Egherman, R.; 2001 Egherman, R.; 2001	Previously recorded segments are unevaluated or recommended as not eligible for listing in the NRHP or CRHR. A short segment of the SPRR within the API was previously recorded based on the PG&E MapGuide Database cultural layer; however, documentation of this recordation was not located, and its GIS shape in the cultural layer appears to be an error. Refer to Section 2.1.1 for additional information.

Resource Name; Primary Number	Description	Recorder(s); Date	Eligibility
		Dore, Christopher, and W.L. Norton; 1997 Caesar, Clarence; 1995 Unknown; 1994 JRP Historical Consulting Services; 1994 JRP Historical Consulting Services; 1994 JRP Historical Consulting Services; 1994 JRP Historical Consulting Services; 1993 Costello, J. and J. Marvin; 1993	
*Central California Traction Railroad (CCTR); P-39-004457	The CCTR alignment in San Joaquin Valley. The railroad was constructed from Sacramento to Stockton between 1907 and 1910.	JRP Historical Consulting Services; 2003 Martinez; 2008 PARUS Consulting, Inc.; 2010 Pappas and Tippet; 2011	Previously recorded segments are unevaluated or are recommended as not eligible for listing in the NRHP or CRHR. The segment within the API is previously unrecorded and unevaluated.
California Department of Transportation (Caltrans) Bridge Number 29C-341; N/A	Bridge carrying East Harney Lane over Paddy Creek outside Lodi, constructed in 1964.	Caltrans; 2019	Assigned NRHP Status Code 5 by Caltrans, signifying not eligible for listing in the NRHP.
*Asterisk denotes that the resource is located within the API			

2.1.1 Southern Pacific Railroad (P-39-000002)

Segments of the SPRR in San Joaquin County have been recorded on multiple occasions. These previously recorded segments either have not been previously evaluated or were recommended as not eligible for listing in the NRHP (Dolan and Tomes 2002; Gross 2002).

According to the PG&E MapGuide Database cultural layer, a short segment of the SPRR within the API has been previously recorded. The GIS shapefile shows the segment located on both sides of the CCTR along East Sargent Road, between State Route (SR) 12 and Lodi Junction, and designates it as EBMUD-23. The resource appears in the location map included in a site record completed by Jones & Stokes in 1997. However, EBMUD-23 is not the subject of that record, which instead records two short SPRR segments outside the API, both of which are designated as EBMUD-10. Therefore, EBMUD-23's inclusion in the location map in that site record appears to be an error. The GIS shape for EBMUD-23 in the MapGuide Database cultural layer points to a segment called MR #6; however, MR #6 was recorded by Jones & Stokes in 2002 and is located southwest of Stockton (outside the API). Therefore, it appears that the GIS shape in the MapGuide Database cultural layer is an error. Based on review of historic topographic quadrangles dating back to 1909, the SPRR did not extend through the API. Rather, the SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API. The SPRR Valley Spring Branch followed the alignment of present-day SR 12 approximately 0.26 mile north of the API.

2.1.2 Central California Traction Railroad (P-39-004457)

In 2003, JRP Historical Consulting Services recorded a 100-foot-long segment of the CCTR at the railroad's intersection with SR 12, approximately 250 feet north of the API. The segment was not evaluated for listing in the NRHP or CRHR; however, the record noted that the rails, ties, and crossing

guards all appeared to be non-original and recently replaced. Three additional segments of the CCTR have since been recorded in Stockton (outside the API and 0.25-mile-radius study area). The first, in 2008, recommended the segment not eligible for listing in the NRHP and CRH due to a lack of integrity. The remaining two segments were recorded in 2010 and 2011 and are unevaluated.

2.2 Summary of Other Sources

Jacobs conducted additional background research to identify architectural resources within the API and develop a historic context. This included review of primary and secondary sources available at repositories and online, such as maps, aerials, regional histories, and historic newspaper. Statewide historic contexts pertinent to the API also were reviewed. These sources included the following:

- California Department of Transportation (Caltrans) publications consisting of:
    - *Water Conveyance Systems in California, Historic Context Development and Evaluation Procedures* (JRP Historical Consulting Services and Caltrans 2000)
    - *A Historical Context and Archaeological Research Design for Agricultural Properties in California* (Caltrans 2007)
    - *Caltrans Guidelines for Identifying and Evaluating Historic Landscapes* (Caltrans 1999)
- *A Model for Identifying and Evaluating the Historic Significance of Post–World War II Housing* (Transportation Research Board 2012)
- San Joaquin County libraries
- Lodi Historical Society
- San Joaquin County Historical Museum
- San Joaquin Delta College Library Archives and Special Collections
- National Park Service
- Ancestry.com
- ChroniclingAmerica.loc.gov (Library of Congress historic newspaper database)
- General Land Office land records
- HistoricAerials.com (NETROnline 2022)
- National Archives
- Newspapers.com
- NewspaperArchive.com
- National Register Focus Database
- ParcelQuest

- Sanborn Fire Insurance Maps
- U.S. Census records
- U.S. Geological Survey (USGS) topographic maps

2.3 Desktop Review of Alternatives

The Project has two other alternatives, the Northern Alternative and the Central Alternative, both located north of the preferred alignment. The alternatives are depicted in Appendix A, Figure 1. A records search for these areas was completed as part of the *Cultural Resources Constraints Report: Northern San Joaquin 230 kV Transmission Project* (Far Western 2020).

Jacobs reviewed this data to help characterize the resources located along the alternative alignments, develop a historic context, and to understand property types and periods of development for the API environs. This research was augmented by a desktop review completed using Google Earth, Google Street View, historic aerials, and USGS topographic maps. The following provides more information about the alternatives. Photographs depicting these areas are included in Appendix B.

- Northern Alternative
    - The Northern Alternative from LEU Industrial Substation until Curry Avenue is mainly industrial buildings consisting of warehouses, small offices and small factories, constructed from the 1950s through the present. From Curry Avenue eastward the properties are mainly small to midsize rural residential properties with residences, barns, shops, and garages. As the Northern Alternative runs across SR 88 parcel sizes become more irregularly sized and include agricultural lots with farm buildings, some rural residential, and some vacant lots solely used for agriculture. Most rural residential is situated to face county roads with setbacks varying from 10 to 50 feet.
    - At the western end of the Northern Alternative the built environment is characterized by modern industrial buildings and industrial buildings dating from 1950 through 1977. The industrial environment is characterized by warehouses and small offices (Appendix B, Photograph 1). Once the alternative crosses the CCTR tracks, the built environment is mainly rural residential, agricultural (vacant) land, and farm buildings (Appendix B, Photograph 2, 3). Most appear to date from 1920 through1970, with a fair degree of infill of modern properties. Most rural residences have replaced building elements, such as windows and siding, and are concentrated near rural roadways.
- Central Alternative
    - The Central Alternative from LEU Industrial Substation until Curry Avenue is mainly industrial buildings consisting of warehouses, small offices and small factories constructed from the 1950s through the present. From Curry Avenue eastward the properties are mainly small to midsize rural residential properties with residences, barns, shops, and garages. As the Central Alternative runs across SR 88, parcel sizes become more irregularly sized and include agricultural lots with farm buildings, some rural residential, and some vacant lots solely used for agriculture. Most rural residential is situated to face county roads with setbacks varying from 10 to 50 feet.
    - At the western end of the Central Alternative, the built environment is characterized by modern industrial buildings and industrial buildings dating from 1950 to 1977. The

industrial environment is characterized by warehouses and small offices (Appendix B, Photograph 4). Once the alternative crosses the CCTR tracks, the built environment is mainly rural residential, agricultural (vacant) land, and farm buildings (Appendix B, Photograph 5, 6). Most appear to date from 1920 to 1970, with a fair degree of infill of modern properties. Most rural residences have replaced building elements, such as windows and siding, and are concentrated near rural roadways.

3. Historic Context

In California, the historic period is generally divided into three periods: the Spanish Period (1769 to 1834), the Mexican Period (1821 to 1848), and the American Period (1848 to the present).

3.1 Spanish and Mexican Periods (1769 to 1848)

The Spanish Period spans 1769 to 1821, beginning with the founding of the El Presidio Real de San Diego and the Mission San Diego de Alcala. As early as 1776, the first formal European expedition, led by Lieutenant-Colonel Juan Bautista de Anza, entered San Joaquin Valley (Schenck 1926). Although the Spanish established a vast network of missions along the California coast during the Spanish Period, none of the missions were sited inland within San Joaquin County. A review of Spanish land grant information did not find any information regarding land grants within present-day San Joaquin County that might have relevance to the API's history (State Lands Commission 1982).

Mexico became independent of Spain in 1821, effectively ending the Spanish Period in California. Former Spanish lands were then opened for grants by the Mexican government to citizens who would colonize the area and use the land (Lech 2004). A review of Mexican land grant documented six land grants within San Joaquin County during the Mexican Period; however, none of these ranchos extended into the API (State Lands Commission 1982).

3.2 American Period (1848 to the Present)

Following the signing of the Treaty of Guadalupe Hidalgo in 1848, the U.S. took possession of what is now California. The discovery of gold in California in 1848 led to the start of the California Gold Rush the following year, bringing many speculators from the eastern U.S. and European countries to California. In 1850, California was admitted into the U.S. as the 31st state, primarily because of the population increase created by the Gold Rush.

San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Historic themes specific to the API include agriculture; irrigation, flood control, and water conveyance, transportation; and power infrastructure. These themes are discussed in greater detail below.

3.2.1 Agriculture

The earliest maps of the API date from 1856 and 1857 (General Land Office 1855, 1865). They show some roads extending through the area (discussed further in Section 3.2.3), but that the API was otherwise largely undeveloped. Lodi was created as a new railroad town at the west end of the API in 1869, and by 1890 grew to a population of approximately 1,200 residents (No author 1890). Around this time, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007).

During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

3.2.2 Irrigation, Flood Control, and Water Conveyance

Dry grain farming, the principal industry in San Joaquin County during the second half of the nineteenth century, required little in the way of irrigation. However, crop diversification occurred during the twentieth century that required the construction of more irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the API environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; USGS 2022). This includes the Bear and Paddy creeks, which intersect the center of the API. A 1908 topographic quadrangle, the earliest available for the area, shows their meandering courses extending through the API immediately east of present-day SR 88. This also is reflected in subsequent quadrangles and aerials through 1961. By 1967, however, an aerial shows that all three creeks had been channelized to follow their current, straighter paths. According to a 1977 report by the U.S. Army Corps of Engineers, channelization of Bear Creek in San Joaquin County was completed between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway. The project was intended to protect agricultural land, suburban areas, and transportation corridors from the devastating effects of floods (U.S. Army Corps of Engineers 1977). Paddy Creek likely was channelized during the same period for flood protection purposes.

The entire API falls within the North San Joaquin Water Conservation District (NSJWCD), which was formed in 1948 to provide groundwater management (NSJWCD 2022). It represents one of the water storage and conservation districts created in California after the late 1920s in response to the "increased demand for storage and coordination of interest on larger streams" (JRP Historical Consulting and Caltrans 2000:15). The NSJWCD currently encompasses 150,000 acres east of Lodi on both sides of the Mokelumne River and includes features such as pump stations, recharge sites, and reservoirs for water storage (all outside the API). A 2020 map of the district identifies that the NSJWCD South Pipeline, which delivers water from Mokelumne River to the north into Pixley Slough and Bear Creek to the south, intersects the API approximately 0.5 mile east of North Alpine Road (NSJWCD 2020). The pipeline also is used during irrigation season to convey water to farms (Greater San Joaquin County Regional Water Coordinating Committee 2020). The pipeline's north-south alignment through the API first appears between 1961 and 1968 topographic quadrangles, where it is labeled an aqueduct (NETROnline 2022; USGS 2022).

3.2.2.1 Mokelumne Aqueduct

Another aqueduct intersects the API: the Mokelumne Aqueduct, which extends northeast-southwest through the extreme east end of the API. The resource runs nearly 100 miles in total and is owned and operated by the East Bay Municipal Utility District (EBMUD). The first segment of the line was completed in the 1920 to provide water to the rapidly growing East Bay area. Additional segments were added as the twentieth century progressed (EBMUD 2022). The aqueduct is first depicted through the API between the 1942 and 1947 topographical quadrangles (USGS 2022).

Based on the *Water Conveyance Systems in California* statewide historic context, California's growing metropolitan areas needed increased water supplies in the early twentieth century. Cities adopted the concept of interbasin water transfer, pulling water from outside the local county around this time. The

context describes, "First, Los Angeles in the Owens Valley (1906-1913), followed by San Francisco at Hetch Hetchy (1913-1935) and Oakland on the Mokelumne River (1924-1928), the state's major urban areas reached beyond their local and increasingly inadequate watershed to secure ample supplies of high-quality water for municipal and domestic uses" (JRP Historical Consulting Services and Caltrans 2000).

The EBMUD was established in 1923 and acquired rights to the Mokelumne River the following year. Bonds were issued to secure funding for the construction of a water system delivering water from Highland Peak in the Sierra Nevada to the Sacramento-San Joaquin Delta. The original aqueduct was built in 1929, within a 100 foot right-of-way that provided for the eventual expansion of the system to include two more pipelines. Post-World War II population growth spurred the addition of a second pipeline in 1949, which increased the system's capacity from 42 million gallons per day to 105 million gallons. By 1963, further growth of the region resulted in the addition of the third pipeline. Today, the system provides 1.4 million people and 35 municipalities with water (Austin 2022; Hamman 1949).

The Pardee Dam and Reservoir (38 miles northeast of Stockton) impounds water from the Mokelumne River. The 345-foot-high concrete gravity arch dam provides a capacity of 198,000 acre-feet of municipal water supply. The water from the reservoir travels "through the 2.2-mile Pardee Tunnel and then into the 82-mile three-barreled Mokelumne Aqueduct to cross the foothills and the Central Valley where at Lodi, the aqueduct joins up with the Folsom South Canal" (Austin 2022). From there, water is conveyed to Walnut Creek and is sent to an EBMUD filtration plant or reservoir (Austin 2022).

The 0.95-mile-long section of the Mokelumne Aqueduct within the API is buried and presumably includes the three pipelines dating from 1929, 1949, and 1963. A newspaper article from 1949 described the construction of the aqueduct's second pipeline, which was built of primarily steel pipe with some concrete pipe sections. Consolidated Western Steel Corporation and the United Concrete Pipe Company provided the two different pipes (Hamman 1949).

3.2.3 Transportation

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials

(NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

3.2.4 Power Infrastructure

Power infrastructure within the API consists of PG&E Brighton-Bellota 230 kV transmission line, PG&E Rio Oso-Lockeford 230 kV transmission line, LEU Industrial Substation, and PG&E Lockeford Substation, as well as the following 60 kV power lines associated with the substations: PG&E Industrial Tap, PG&E Lockeford-Industrial, PG&E Lodi-Industrial, PG&E Lockeford #1, PG&E Sutter Home Switching Station-Lockeford-Lodi, PG&E Lockeford-Lodi No. 2, and PG&E Lockeford-Lodi No. 3.

During the first half of the twentieth century, California experienced immense growth, which led to development of a complex utility network. Early hydroelectric and transmissions systems supplied power to agricultural valleys and distant cities along the coast. Long distance electric power lines were developed across California in the first decades of the twentieth century as electricity demands increased (Walker 2017).

PG&E, which formed in 1905 when multiple gas and electric companies in the Bay Area consolidated, emerged as an early leader in electrical systems development. By the end of the 1920s, PG&E expanded its reach by purchasing dozens of smaller geographically focused utilities, such as San Joaquin Light and Power Company (Walker 2017). As such, PG&E enjoyed monopoly status during the Great Depression and entering the post-war period, which brought rapid growth to the valley communities in the region. The company projected that the area load demand would double in the decade between 1945 and 1955 (Walker 2017). To address this growing demand for energy at the midcentury, PG&E announced a $350,000,000 construction program to expand electricity and natural gas services in Northern and Central California (*Contra Costa Gazette* 1947).

Review of historic aerials and maps show the development of power infrastructure within and around the API during this period (NETROnline 2022; USGS 2022). PG&E Brighton-Bellota 230 kV transmission line represents the first part of this construction. Its northwest-southeast alignment extending through the extreme east end of the API first appears in a 1939 topographical quadrangle. Nearly a decade later, PG&E Lockeford Substation (located along East Kettleman Lane to the east of SR 88) was put in service in December 1948 (No author 1949). PG&E Rio Oso-Lockeford 230 kV transmission line that extends from PG&E Lockeford Substation to the existing alignment of PG&E Brighton-Bellota 230 kV transmission line to the east, which was built later, first appearing between 1961 and 1968 topographic quadrangles (NETROnline 2022; USGS 2022). LEU Industrial Substation southeast of the intersection of South Cluff and East Lodi avenues in Lodi dates from sometime between 1984 and 1993 based on aerials (NETROnline 2022). PG&E Industrial Tap, PG&E Lockeford-Industrial, and PG&E Lodi-Industrial 60 kV power lines reaching LEU Industrial Substation were erected after its construction. The remaining PG&E 60 kV distribution lines within the API (PG&E Lockeford #1, PG&E Sutter Home Switching Station-Lockeford-Lodi, PG&E Lockeford-Lodi No. 2, and PG&E Lockeford-Lodi No. 3) are associated with PG&E Lockeford Substation and were built sometime between 1993 and 2002 based on aerials (NETROnline 2022).

4. Survey Methods

Investigators who meet the Secretary of the Interior's Professional Qualification standards in Architectural History and History, per 36 CFR Part 61, oversaw the completion of an architectural field survey of the entire API between December 15 and 22, 2022. The survey was conducted from public vantage points and public rights-of-way. If surveyed resources were not visible or accessible from public areas, investigators completed supplemental research to record and evaluate the resources, such as review of current mapping software, historic maps, aerials, historic newspaper databases, city directories, and other sources.

Prior to initiating fieldwork, investigators exported parcel data for the API from the San Joaquin County Assessor and ParcelQuest and uploaded it to ArcGIS Collector. This information included parcel boundaries as well as relevant information such as parcel address, assessor's parcel number (APN), and construction year. Investigators also uploaded shapefiles showing the locations of previously recorded architectural resources within the API.

During the survey, investigators used the ArcGIS Collector application loaded with the above-mentioned shapefiles to collect geotagged photographs of each property constructed on or before the survey cutoff date of 1977, including any accessory resources, and took notes on architectural style, form, condition, and historic integrity. Investigators also assigned estimated construction dates to properties based on field verification of San Joaquin County Assessor and ParcelQuest data, professional judgement, and historical research, including historic maps, aerials, newspaper databases, and other sources. The distribution of the resources that met the survey cutoff data (i.e., constructed on or before 1977) are presented in Appendix A, Figure 4.

The extent of the API was also field verified to determine if the Project would be visible past the 500-foot-radius buffer surrounding the new transmission line. In several instances, the API was expanded to include the full extent of a parcel and other interrelated properties due to existing conditions, such as flat topography, limited development, and lack of other visual intrusions. Oftentimes, a building cluster would be located immediately outside the API limits; however, since the building cluster was associated with properties within the API, it was recorded as part of an interrelated resource, including the portion outside the API. For example, residences and outbuildings were frequently outside the limits of the API; however, since they were directly and historically associated with agricultural fields and orchards within the API, the entirety of the property was recorded and the API was expanded.

Resources meeting the 1977 survey cutoff date were documented in the survey results matrix in Appendix C and recorded on Department of Parks and Recreation (DPR) 523 series forms in Appendix D. No resources constructed after the 1977 survey cutoff date appeared to possess exceptional significance; therefore, none of these resources were recorded. In areas where the new PG&E transmission line is being constructed alongside an existing transmission line with structures of a similar height as the proposed features, investigators confirmed in the field that no new visual intrusions would occur to properties within the API. This was completed through assessing existing viewsheds from public vantage points, the historic character and setting of the area, building orientation, existing vegetation, topography, and age of existing visual intrusions. If this assessment determined there would be no visual changes from the new line, the resources within the API were not recorded or evaluated as part of this report. Representative photographs of where there would be no visual changes from the new line are included in Appendix B, Photographs 17 through 22.

Survey methods were designed to meet local, state, and federal requirements, and follow guidance put forth in California Office of Historic Preservation's *Instructions for Recording Historical Resources*. The survey was also consistent with the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 Federal Register 44716).

5. Survey Results

The background research and architectural field survey identified 68 architectural resources within the API meeting the 1977 survey cutoff date that are recorded and evaluated as part of this report (refer to the survey results matrix in Appendix C and DPR 523 series forms in Appendix D). Of these, 67 resources are newly identified and one is a previously unrecorded segment of the CCTR (P-39-004457) within the API.

Notably, the survey did not identify any evidence of the previously recorded segment of the SPRR within the API (P-39-000002). As described in Section 2.1.1, review of previous recordation forms for the SPRR as well as historic maps and aerials indicate that the line did not extend through the API. Therefore, the previously recorded segment within the API in the PG&E MapGuide Database cultural layer appears to be an error. This is corroborated by the survey results, which did not identify any railroad features in this location.

During post-field research, one resource that the San Joaquin County Assessor indicated met the 1977 survey cutoff date was discovered to be built in 1980 (Resource Identifier 62; 13589 East Kettleman Road). The San Joaquin County Assessor provides a construction date of 1915 for the property with an effective year of 1980 (ParcelQuest 2022). Aerial photographs from 1957 and 1967 show the property as purely agricultural land with no buildings, indicating the 1915 date of construction provided by the assessor is inaccurate. The existing residence first appears between the 1967 and 1984 aerials, indicating the 1980 construction date provided by the assessor is accurate (NETROnline 2022). This was corroborated by professional judgement based on field survey results. Based on this information, the property was not recorded or evaluated for listing in the CRHR as part of this report because it is does not meet the 1977 survey cutoff date.

The following summarizes the efforts of the architectural field survey. Section 6 presents determinations of eligibility. The resources are mapped in Appendix A, Figure 5.

5.1.1 Central California Traction Railroad (P-39-004457)

The segment of the CCTR within the API is newly identified. Other segments of the line outside the API have been previously recorded and are unevaluated or were recommended not eligible for listing in the CRHR and NRHP. The previously recorded segment of the line nearest the API is a 100-foot-long segment at the railroad's intersection with SR 12, approximately 250 feet north of the API. The segment was not evaluated for listing in the CRHR or NRHP, however, the record noted that the rails, ties, and crossing guards associated all appeared to be non-original. The approximately 2.5-mile-long segment of the CCTR within the API also appears to feature non-original rails and ties.

5.1.2 Previously Unrecorded Resources

Overall, 67 resources meeting the 1977 survey cutoff date were newly identified within the API. Of these resources, 41 are rural residential, 7 are industrial, 6 are suburban residential, 5 are farm buildings on agricultural land, 4 are water conveyance features, 3 are electrical infrastructure, and 1 is a cemetery. These properties have the following characteristics:

- Rural residential properties consist of mainly Ranch, Minimal Traditional, Queen Anne, and eclectic styles. Most contain outbuildings, including garages, barns, shops, sheds, and carports.
- Industrial properties are mainly utilitarian warehouses, shops, garages, or manufacturing plants.
- Suburban residential include properties on small quarter-acre lots within the City of Lodi

- Farm buildings included sheds, shops, barns, or warehouses related to agricultural production located on a parcel with no residence.
- Water conveyance and control features within the API consist of two earthen levees and two underground pipelines.
- Electrical infrastructure consists of one PG&E substation and two PG&E 230 kV transmission lines.
- The one cemetery is the Lodi Memorial Park and Cemetery.

Eighteen of the newly identified properties within the API were built between 1900 and 1920, 11 were built between 1920 and 1940, 19 were built between 1940 and 1960, and 19 were built between 1960 and 1977.

6. Resource Eligibility and Assessment of Potential Impacts

6.1 Resource Eligibility

Previously recorded segments of the CCTR are unevaluated or were evaluated as not eligible for listing in the CRHR. This report recommends the CCTR segment newly identified within the API as not eligible for listing in the CRHR as an individual resource or as a potential contributor to a larger resource. The resource does not have a direct association with important events or trends and is not a design or engineering achievement.

Of the 67 newly identified resources, 7 are evaluated as eligible for listing in the CRHR and, therefore, are considered historical resources for the purposes of CEQA for this Project. One resource is recommended eligible only under Criterion 1, two resources are recommended eligible only under Criterion 3, and four resources are recommended eligible under both Criteria 1 and 3. The following identifies these resources and summarizes the evaluations. Refer to the survey results matrix in Appendix C and DPR 523 series forms in Appendix D for more information on these resources, including full evaluations.

- Resource Identifier 21 (15661 North Curry Avenue; APN 049-230-260) is eligible for listing in the CRHR under Criteria 1 and 3 for illustrating early-twentieth century agricultural settlement in Lodi and as a good, intact representation of a 1920s rural residential property with a Craftsman-style residence, tank house, and garage. The property retains integrity and communicates its character and appearance from its construction.

- Resource Identifier 25 (15277 North Curry Avenue; APN 049-230-100) is eligible for listing in the CRHR under Criterion 3 as a representative example of a Queen Anne-style rural residence within San Joaquin County. The property reflects character-defining features of the style through its high-pitched roof with prominent gable, patterned shingles, asymmetrical massing, and partial-width porch and retains a high degree of integrity.

- Resource Identifier 30 (7106 East Kettleman Lane; APN 061-132-110) is eligible for listing in the CRHR under Criterion 3 as it embodies a Folk Victorian-style residence through its high-pitched roof with prominent gable, full-width front porch, spindle work porch detailing, clapboard exterior, and original windows. Other than a replacement front door, the resource appears to be unchanged.

- Resource Identifier 32 (7150 East Kettleman Lane; APN 061-133-010) is eligible for listing in the CRHR under Criteria 1 and 3 for illustrating early-twentieth century agricultural settlement in Lodi and as a good, intact representation of a 1930s rural residential property with a Craftsman-style residence, tank house, and garage. The property retains integrity and communicates its character and appearance from its construction in 1936.

- Resource Identifier 34 (7280 East Kettleman Lane; APN 061-133-030) is eligible for listing in the CRHR under Criterion 3 as an excellent example of a Craftsman-style residence in rural San Joaquin County. The property possesses intact elements of the style, including a partial-width front porch with its roof supported by battered wood columns, exposed rafter tails, a low-pitched roof with wide unenclosed eaves, triangular knee braces, and its original front door. It would be recognizable to persons from the past and retains integrity.

- Resource Identifier 47 (13915 North Locust Tree Road; APN 630-150-460) is eligible for listing in the CRHR under Criterion 3 for embodying a Mediterranean-style residence in a rural context. It

displays character-defining features of the style such as stucco walls, a low-pitched tile roof, and a simple massing that emphasizes horizontal lines.

- Resource Identified 67 (Mokelumne Aqueduct segment within the API) is eligible for listing in the CRHR under Criterion 1 for its associations with interbasin water transfer to supply domestic and municipal water to growing urban areas and its role in the development of the East Bay area.

The remaining 60 newly identified resources were evaluated as not eligible for listing in the CRHR. Resources not found eligible for listing in the CRHR will not be impacted by the Project. Refer to the survey results matrix in Appendix C and DPR 523 series forms in Appendix D for more information on these resources, including full evaluations.

6.2 Assessment of Potential Impacts

The following table summarizes the potential impacts that may occur to the 7 resources evaluated as eligible for listing in the CRHR and considered historical resources for the purposes of CEQA for this Project. Project elements referenced in Table 6-1 correspond to Appendix A, Figure 2.

Table 6-1. Assessment of Potential Impacts to CRHR Eligible Resources

Resource Identifier	Address; APN	Project Element Proximity	Assessment
21	15661 North Curry Avenue; 049-230-060	Located approximately 500 feet southeast of structure W38 and approximately 352 feet east of centerline of preferred alignment	Modern-age industrial buildings are viewable from North Curry Avenue. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criteria 1 and 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements over 350 feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project.
25	15277 North Curry Avenue; 049-230-100	Located approximately 572 feet southeast of structure W37 and approximately 480 feet east of centerline of preferred alignment	Modern-age industrial buildings are viewable from North Curry Avenue. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criterion 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements 480 or more feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project.
30	7106 East Kettleman Lane; 061-132-110	Located approximately 1,150 feet northeast of structure W31 and approximately 1,100 feet from centerline of preferred alignment	Modern-age residential buildings are viewable from Vintage Road and East Kettleman Lane. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criterion 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements 1,150 or more feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project.

Resource Identifier	Address; APN	Project Element Proximity	Assessment
32	7150 East Kettleman Lane; 061-133-010	Located approximately 1,100 feet northwest of structure W30 and approximately 1,100 feet from centerline of preferred alignment	The building cluster associated with this property, consisting of a Craftsman-style residence, tank house, and garage, is setback approximately 1,100 feet from the proposed Project improvements and already has limited visibility of proposed improvements due to location and foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criteria 1 and 3. No physical impacts will occur to the property as part of the Project.
34	7280 East Kettleman Lane; 061-133-020	Located approximately 1,150 feet northwest of structure W30 and approximately 1,100 feet from centerline of preferred alignment	The Craftsman-style residence at this property is setback approximately 1,100 feet from the proposed Project improvements. Views of the proposed improvements will be limited due the setback and existing foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 3. No physical impacts will occur to the property as part of the Project.
47	13915 North Locust Tree Road; 063-150-460	Located approximately 800 feet southwest of structure W19 and approximately 750 feet south from the centerline of preferred alignment	Modern-age buildings are viewable from North Locust Tree Road. Therefore, integrity of setting has already been diminished. This resource is located approximately 750 feet from the proposed Project improvements. Views of the proposed improvements will be limited due the setback and existing foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 3. No physical impacts will occur to the property as part of the Project.
67	N/A	Located approximately 650 feet southeast of structure E1 and approximately 700 feet southeast from the centerline of preferred alignment	The property is a buried aqueduct segment that has no above-ground features within the API. The installation of Project elements 650 feet or more from the resource will not impact its integrity of location, design, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 1. PG&E Brighton-Bellota 230 kV transmission line already intersects with the aqueduct segment. Therefore, because the setting already is characterized by electrical infrastructure, the Project elements will not diminish its integrity of setting. No physical impacts will occur to the property as part of the Project.

No significant impacts will occur to the 7 resources evaluated as eligible for listing in the CRHR as part of this report. In most cases, the Project improvements will range from at least approximately 352 feet to approximately 1,100 feet from the contributing resources within the property. There would be no physical impacts to these resources. Therefore, the resources would retain the aspects of integrity that convey their significance. The historic and current uses of these resources would remain intact (e.g., rural residential properties, some of which are engaged in small-scale agriculture on medium-sized parcels). In addition, the character-defining features associated with each resource, such as their massing, materials, orientation, and landscape features, would remain intact and not be diminished by the Project improvements. In addition, while the new PG&E transmission line may be visible from certain public vantage points, modern-era development has already diminished integrity of setting in these instances,

and the Project improvements would be a marginal change that would not diminish the characteristics that make the resource significant.

6.3 Findings and Conclusions

In total, the API has 188 parcels, 95 of which were constructed prior to the survey cutoff date of 1977. Sixty-seven newly identified architectural resources and one newly identified segment of the CCTR (P-39-004457) within the API were recorded and evaluated in this report. Seven resources were evaluated as eligible for listing in the CRHR and, therefore, are considered historical resources for the purposes of CEQA for this Project. These resources will not be physically impacted by the Project, and existing visual intrusions and the distance of the proposed Project elements from the resources also limit impacts. Therefore, a finding of "Less than Significant Impacts to Historical Resources" is recommended for the Project, in accordance with CEQA Guidelines, Appendix G, and Section 21084.1.

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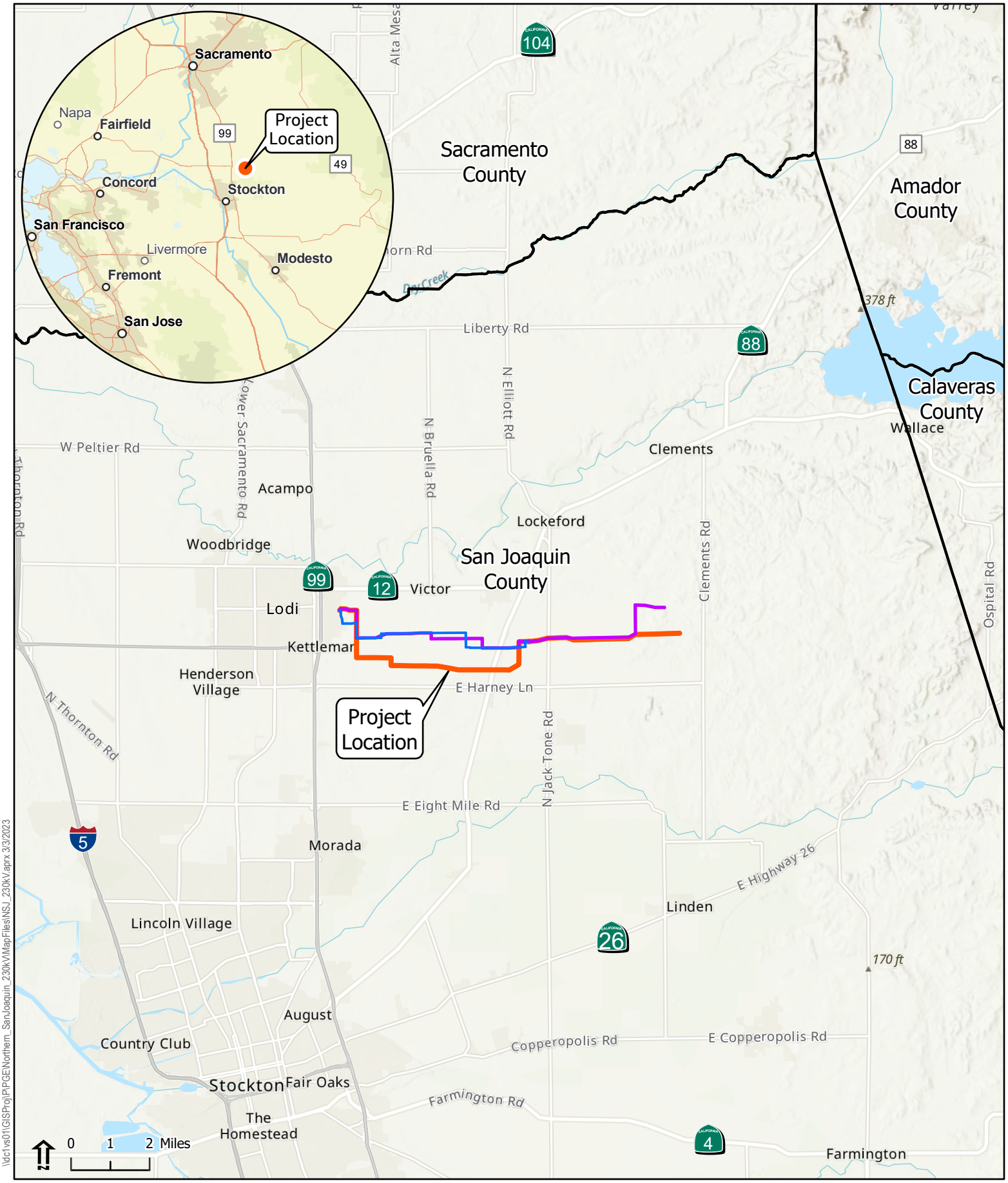
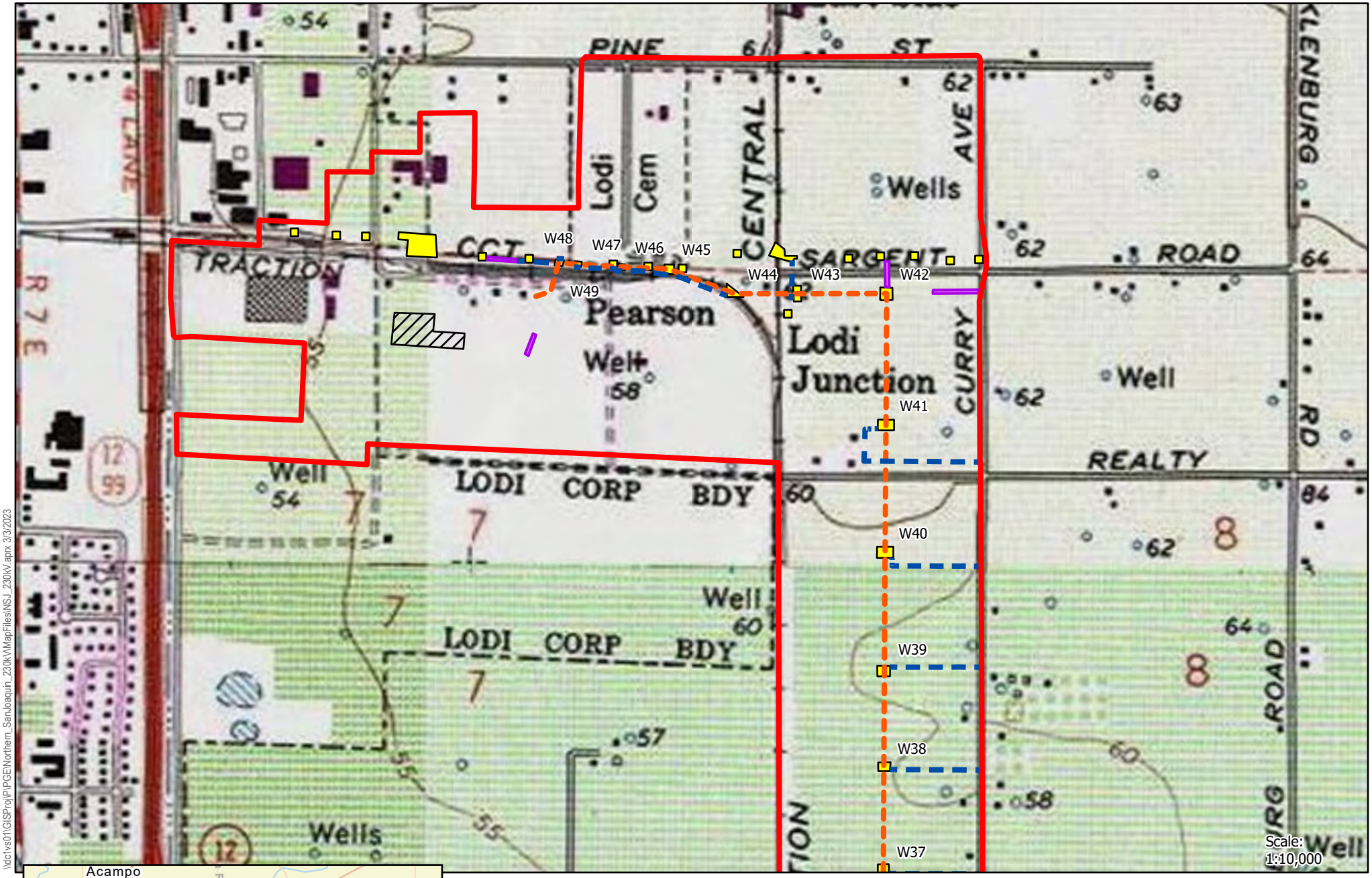
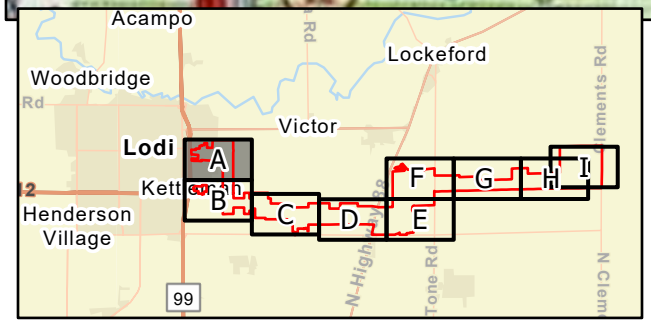
Appendix A
Figures



Preferred Alignment
Central Alternative
Northern Alternative
County Boundaries

FIGURE 1
Project Location
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California





Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2A
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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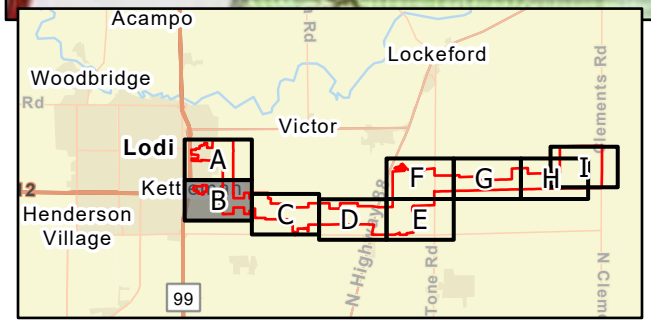

Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2B
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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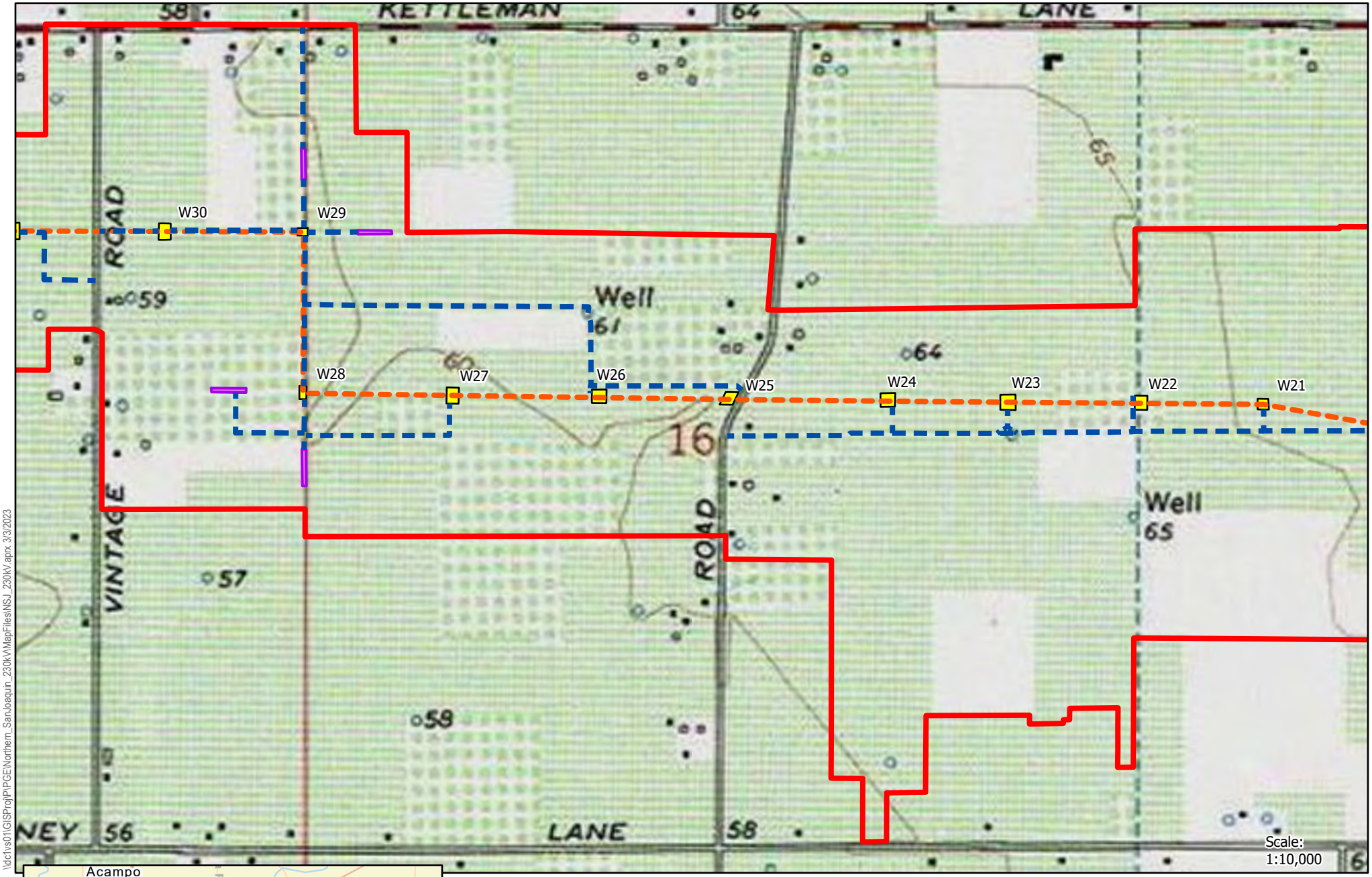

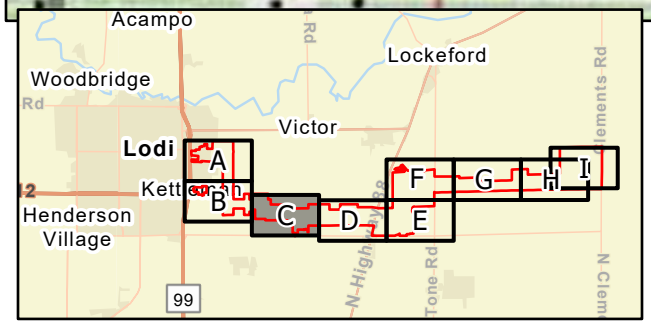

Area of Potential Impacts

Preferred Alignment

Access Route

Pull Sites

Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2C
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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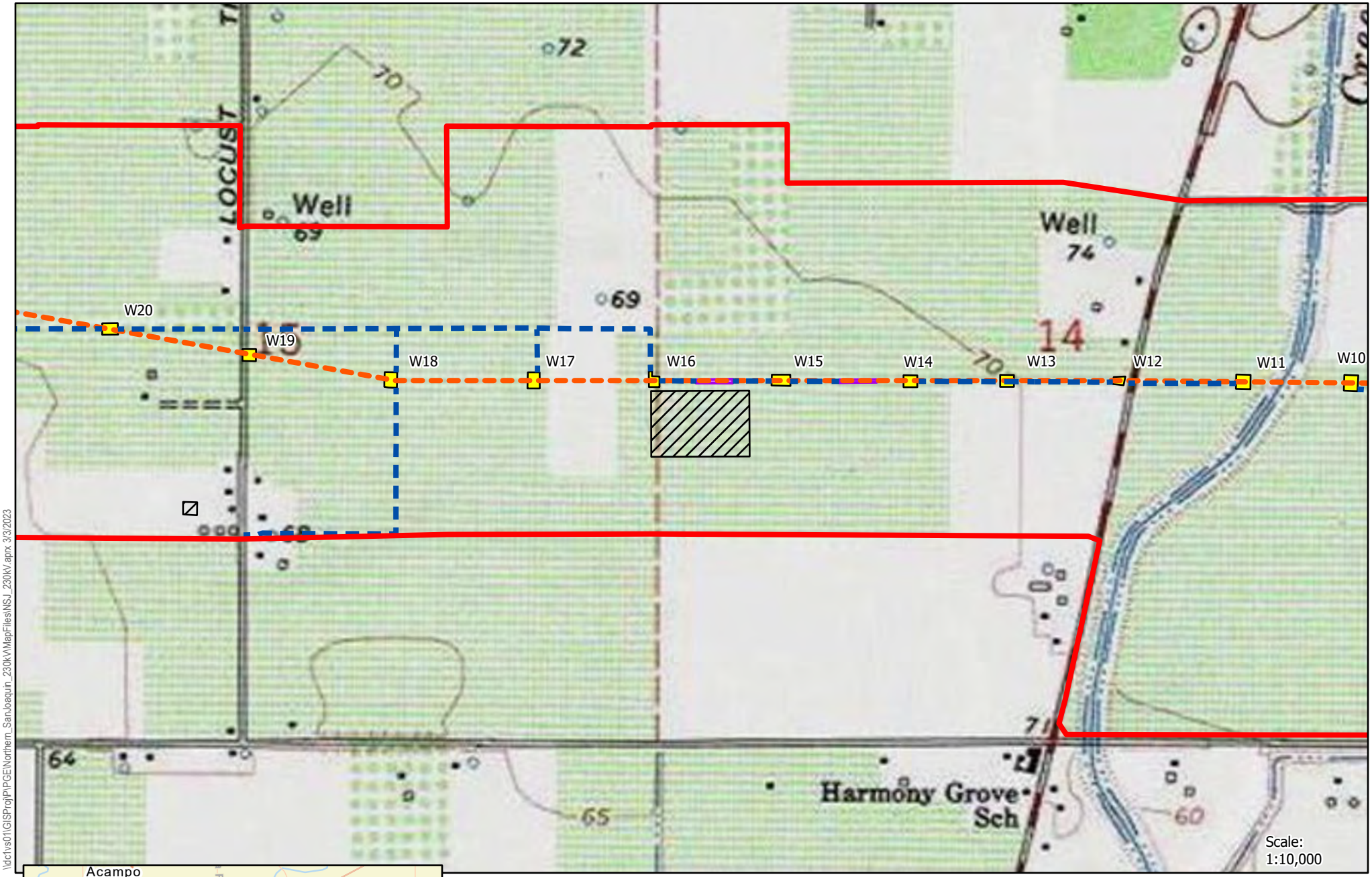

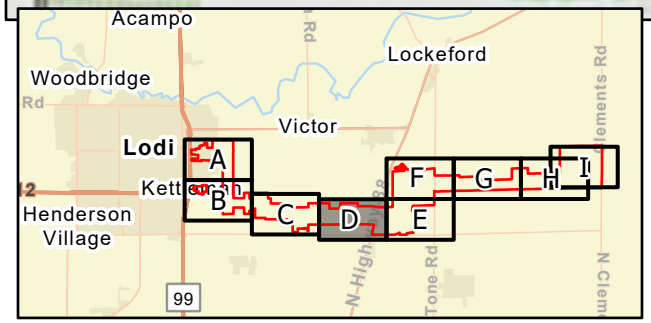

Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2D
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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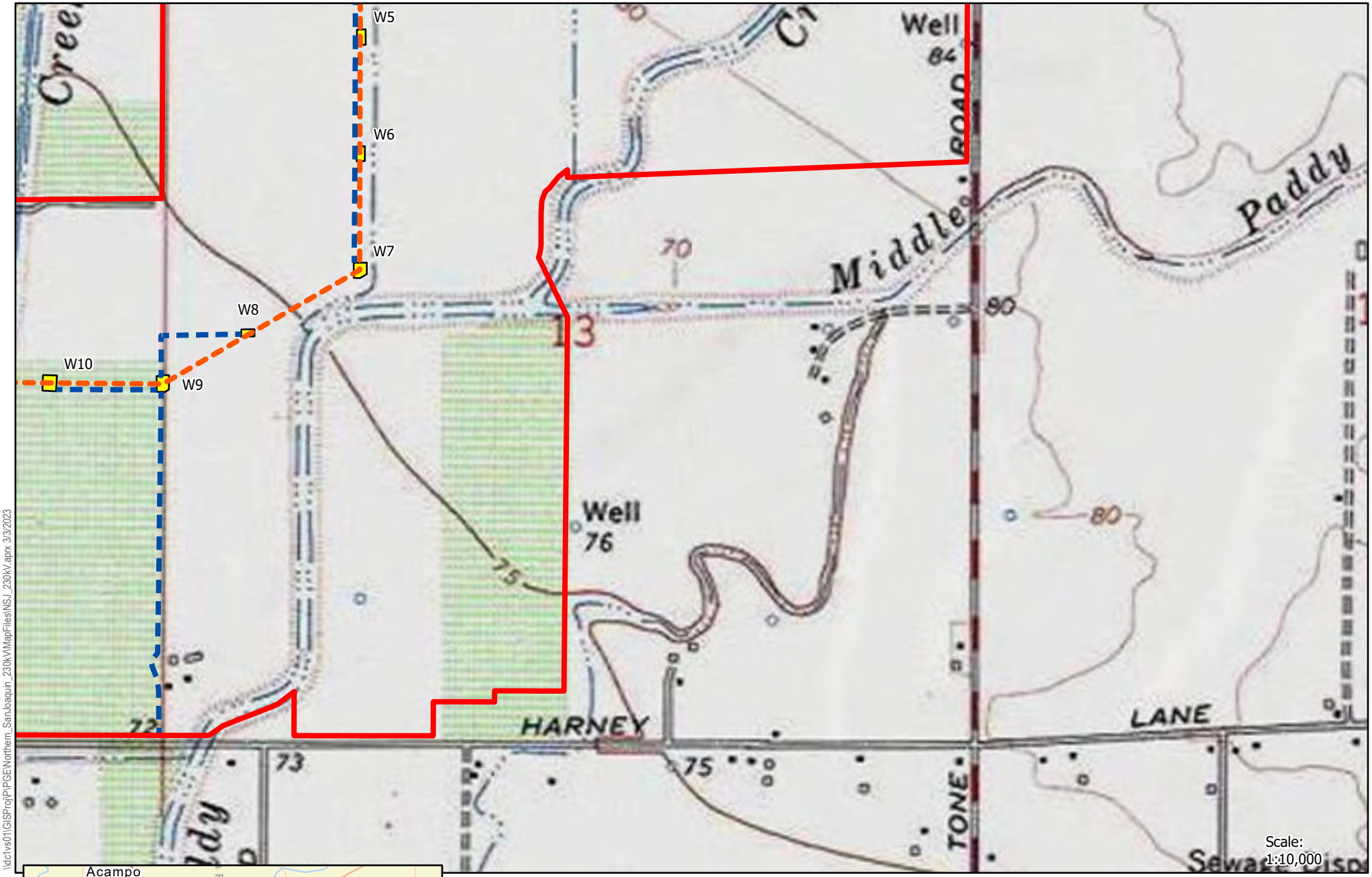

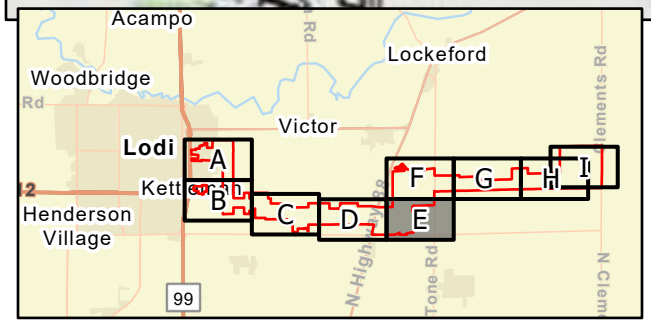

Area of Potential Impacts

Preferred Alignment

Access Route

Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2E
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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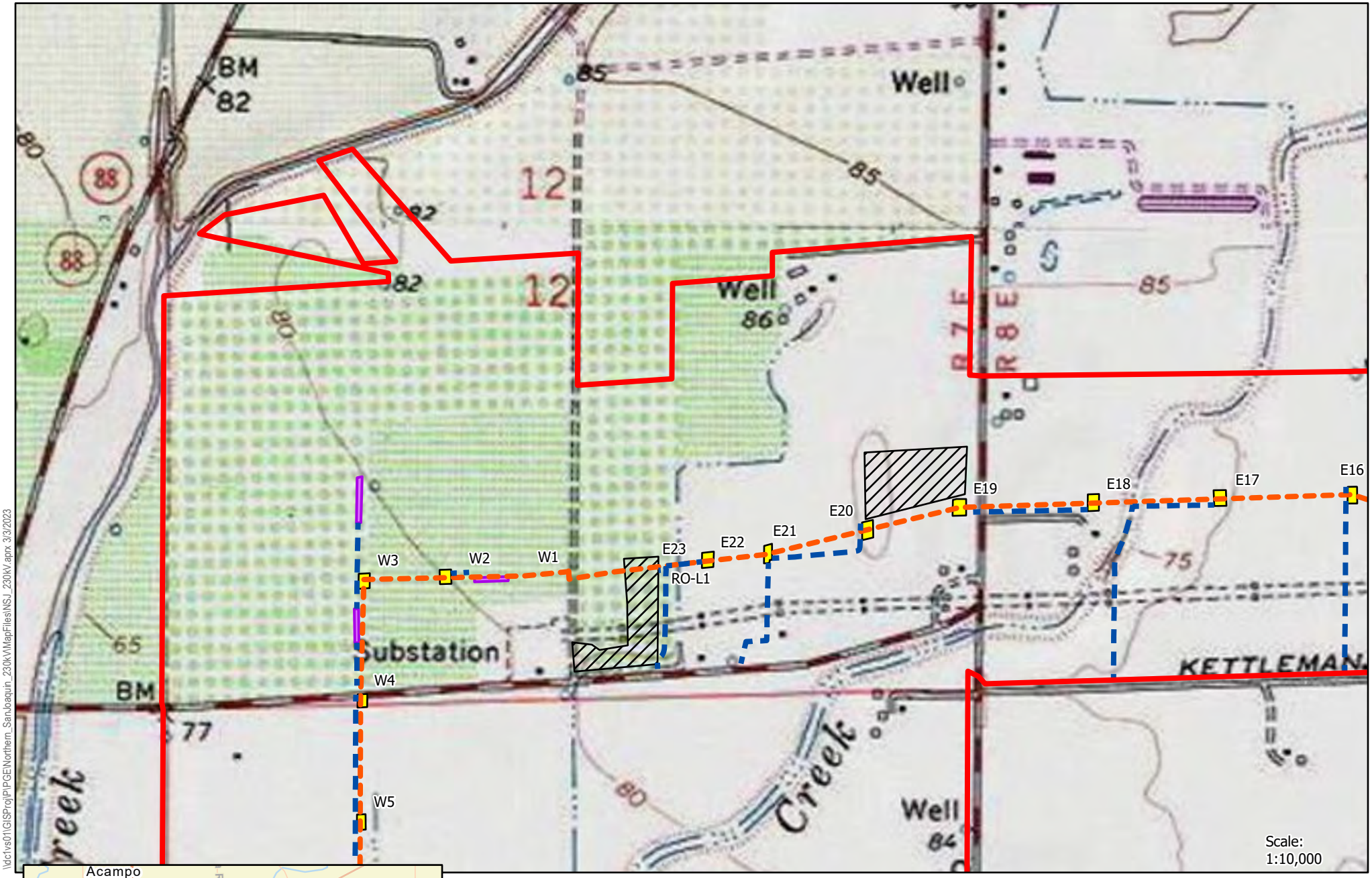
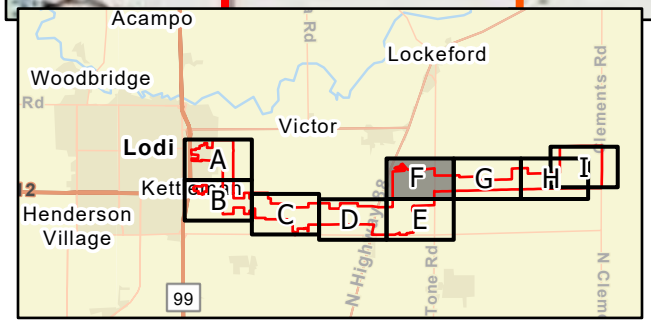




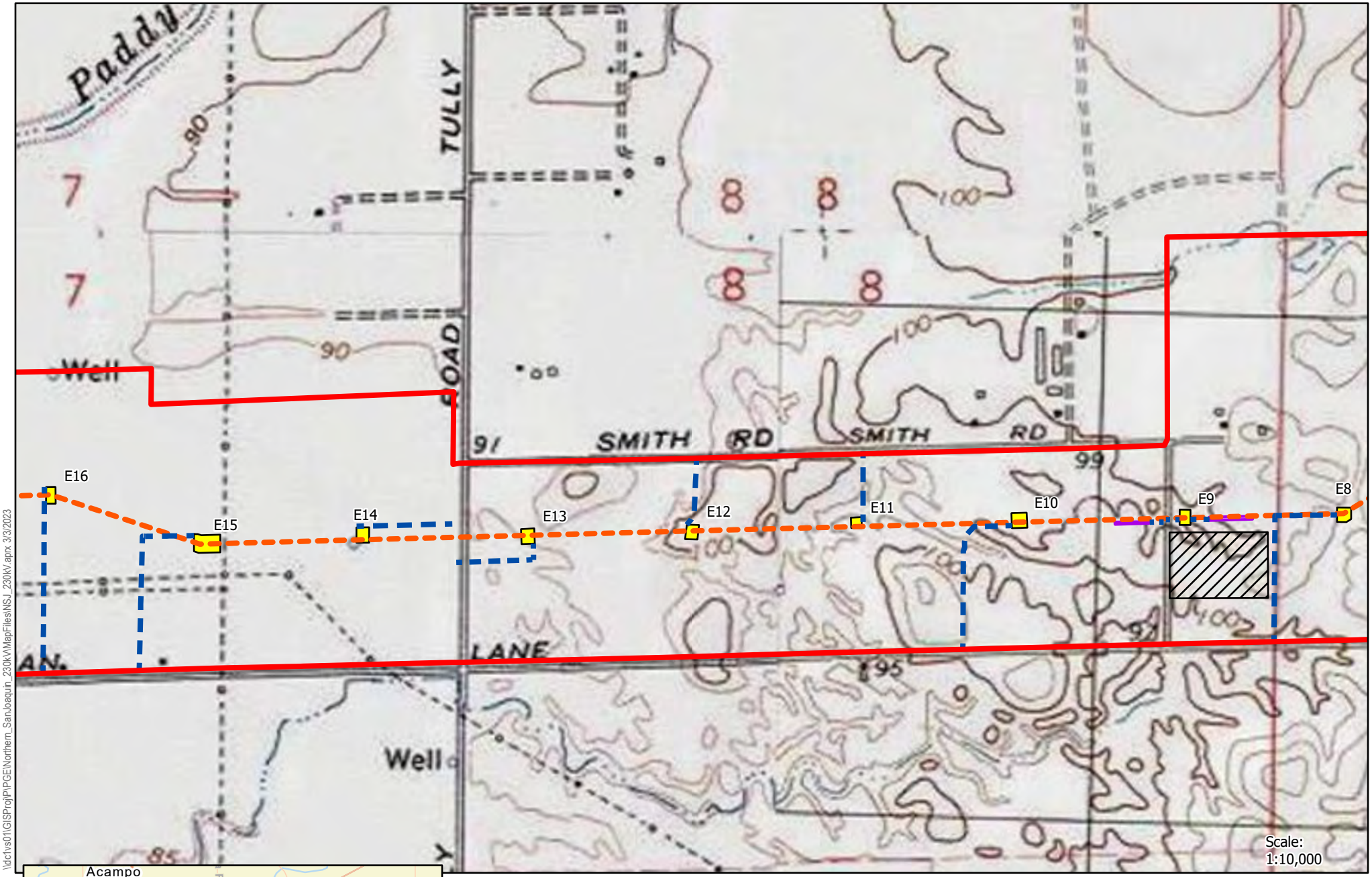
Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

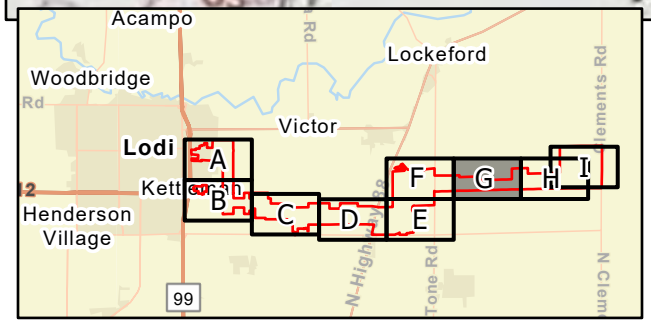
0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2F
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

\\dcr1vs01\GISProj\PLPGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023





Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2G
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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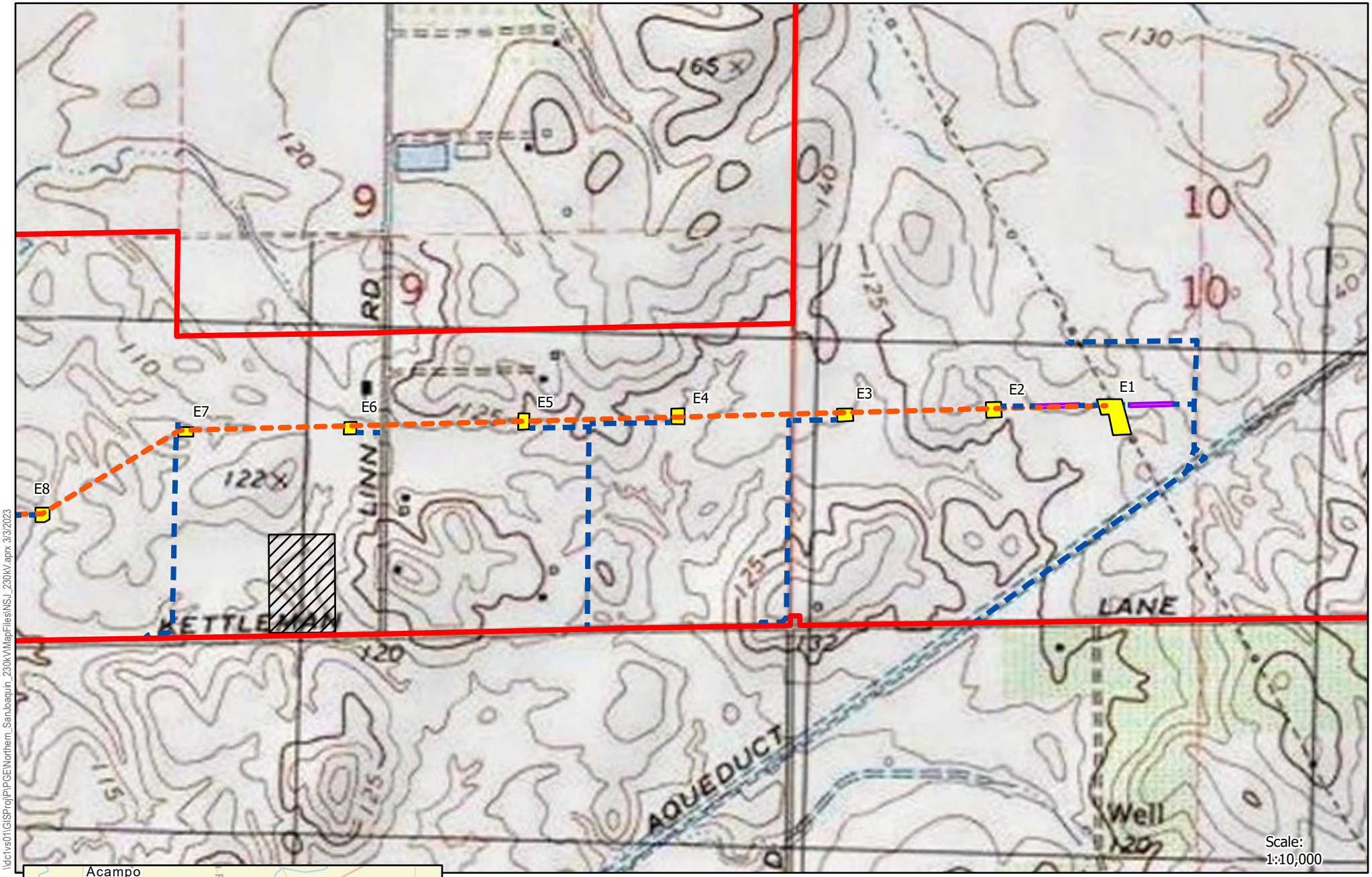

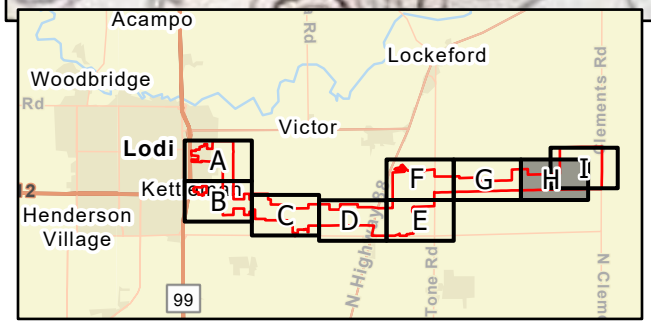

Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Staging Areas
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2H
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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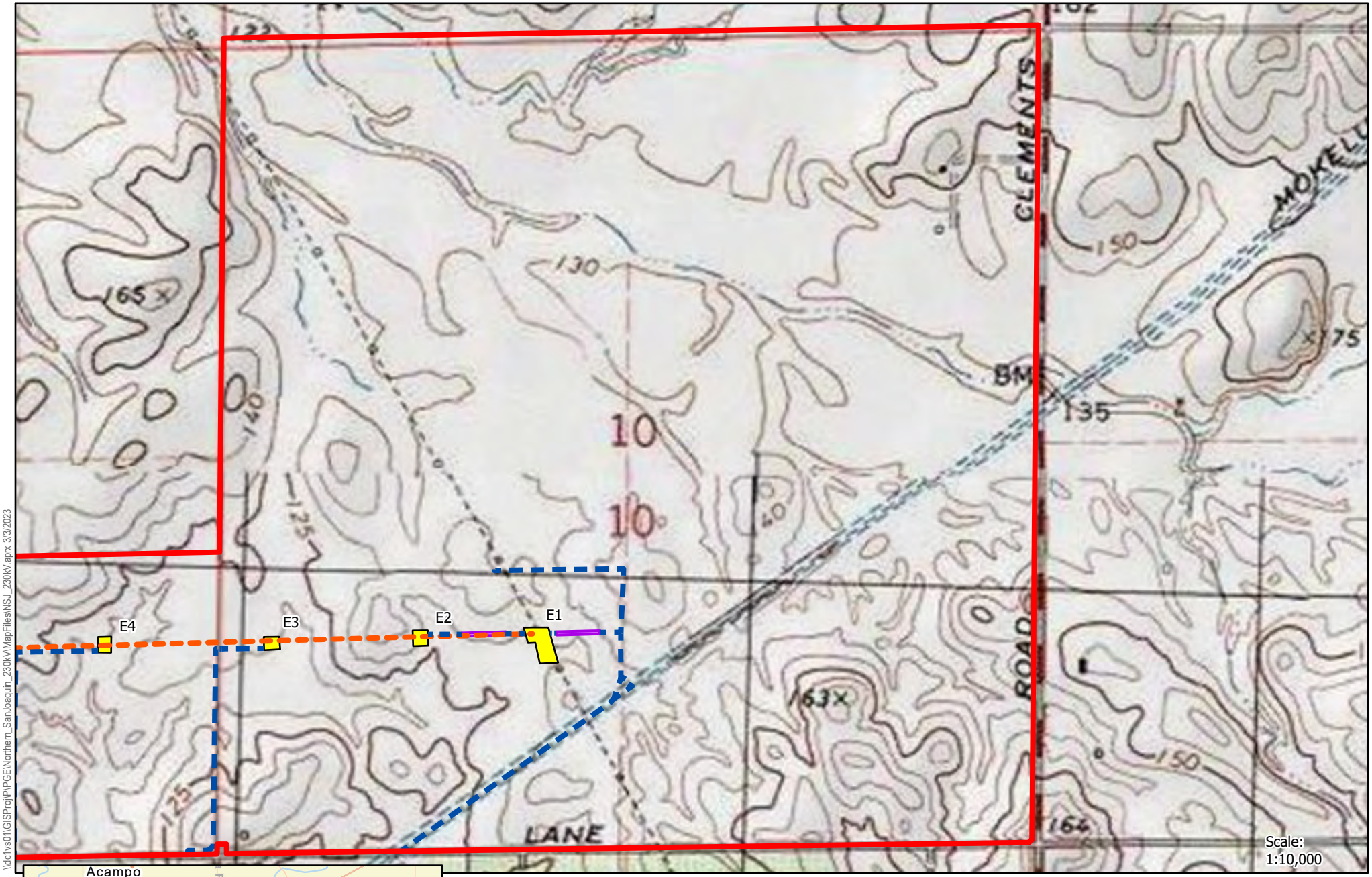
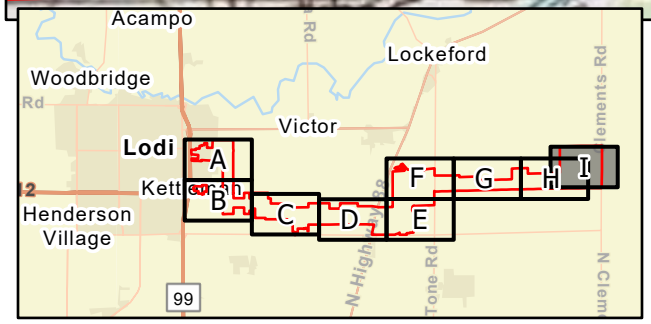




Area of Potential Impacts
Preferred Alignment
Access Route
Pull Sites
Work Areas

0 500 1,000 Feet

USGS Quads:
Linden, Lockeford, Lodi North, Lodi South, and Waterloo
Township/Range:
3N 7E
Section 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, and 18
3N 8E
Sections 7, 8, 9, 10, 15, 16, 17, and 18

FIGURE 2I
Area of Potential Impacts
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

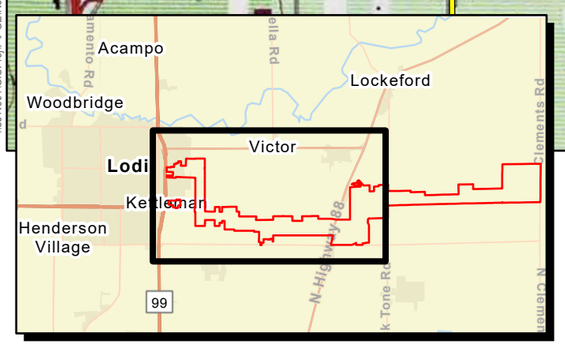
\\dc1vs01\GISProj\PLPGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023

SJ-4506

P-39-000002

P-39-004457

Caltrans Bridge
Number 29C-341



Area of Potential Impact

0.25-Mile-Radius Study Area

Previously Conducted Architectural Resource Investigation

Previously Recorded Architectural Resource Line

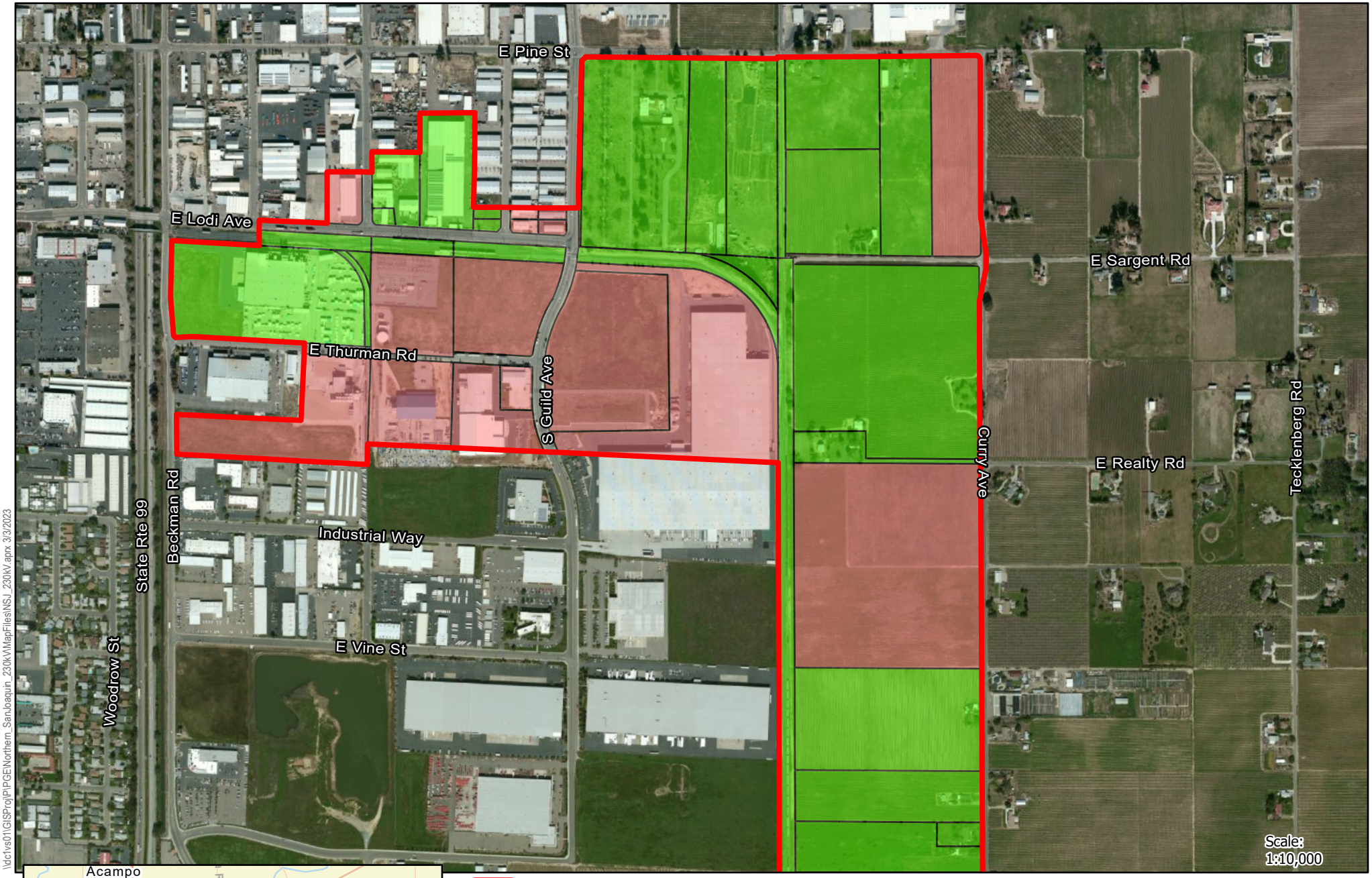
Previously Recorded Architectural Resource Point

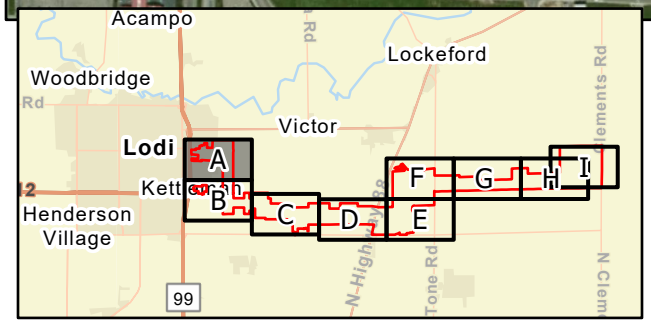
0 1,000 2,000 Feet

Scale:
1:24,000

\\dc1vs01\GISProj\PPGEN\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kVaprx 12/21/2022

FIGURE 3
Record Search Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California





Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4A
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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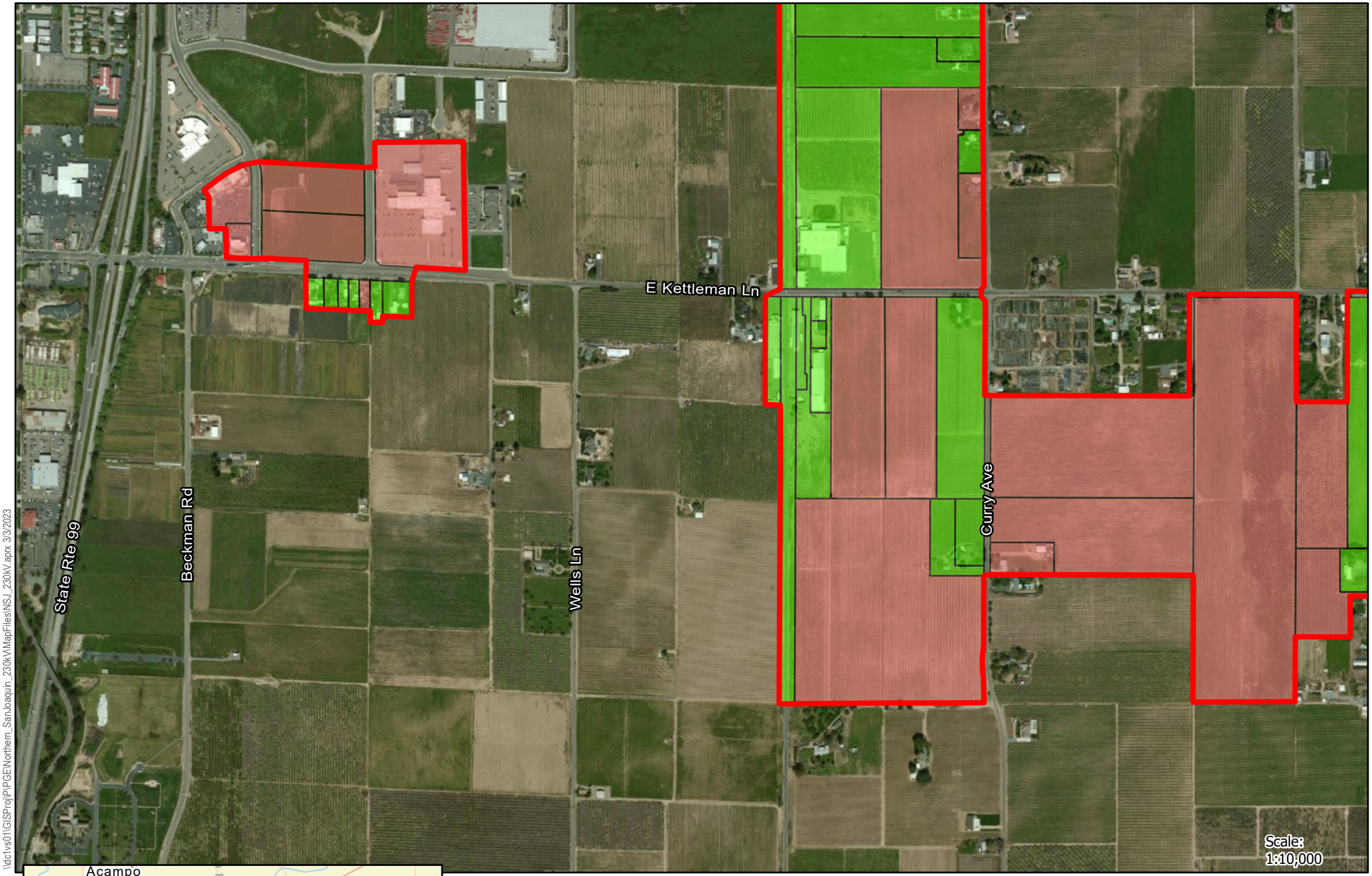

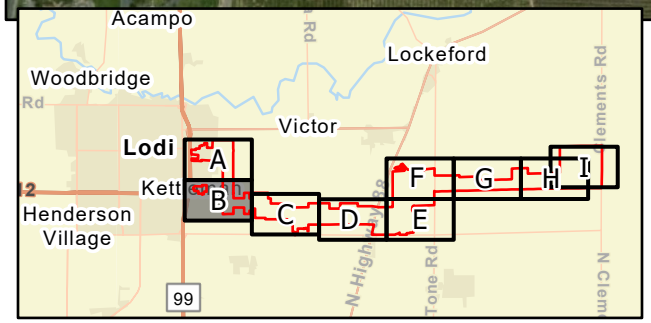

Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4B
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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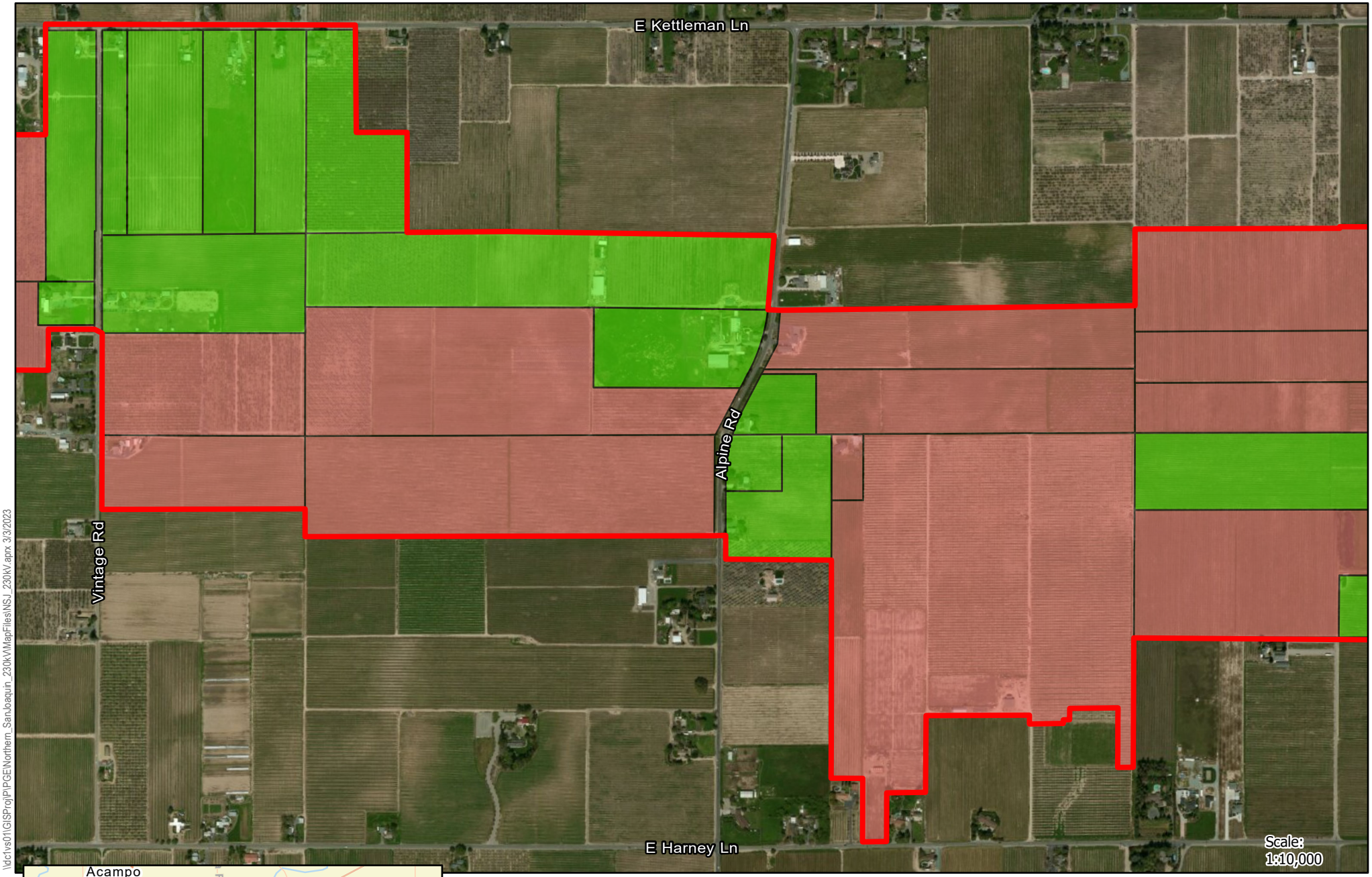

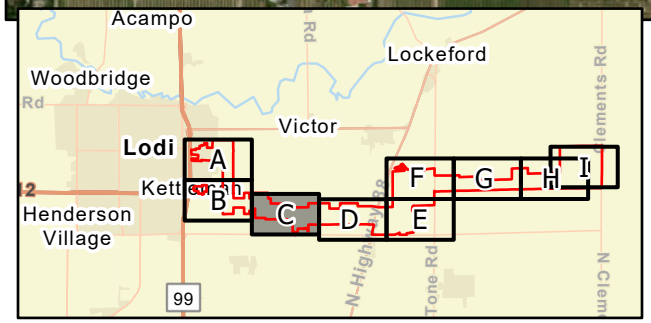

Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4C
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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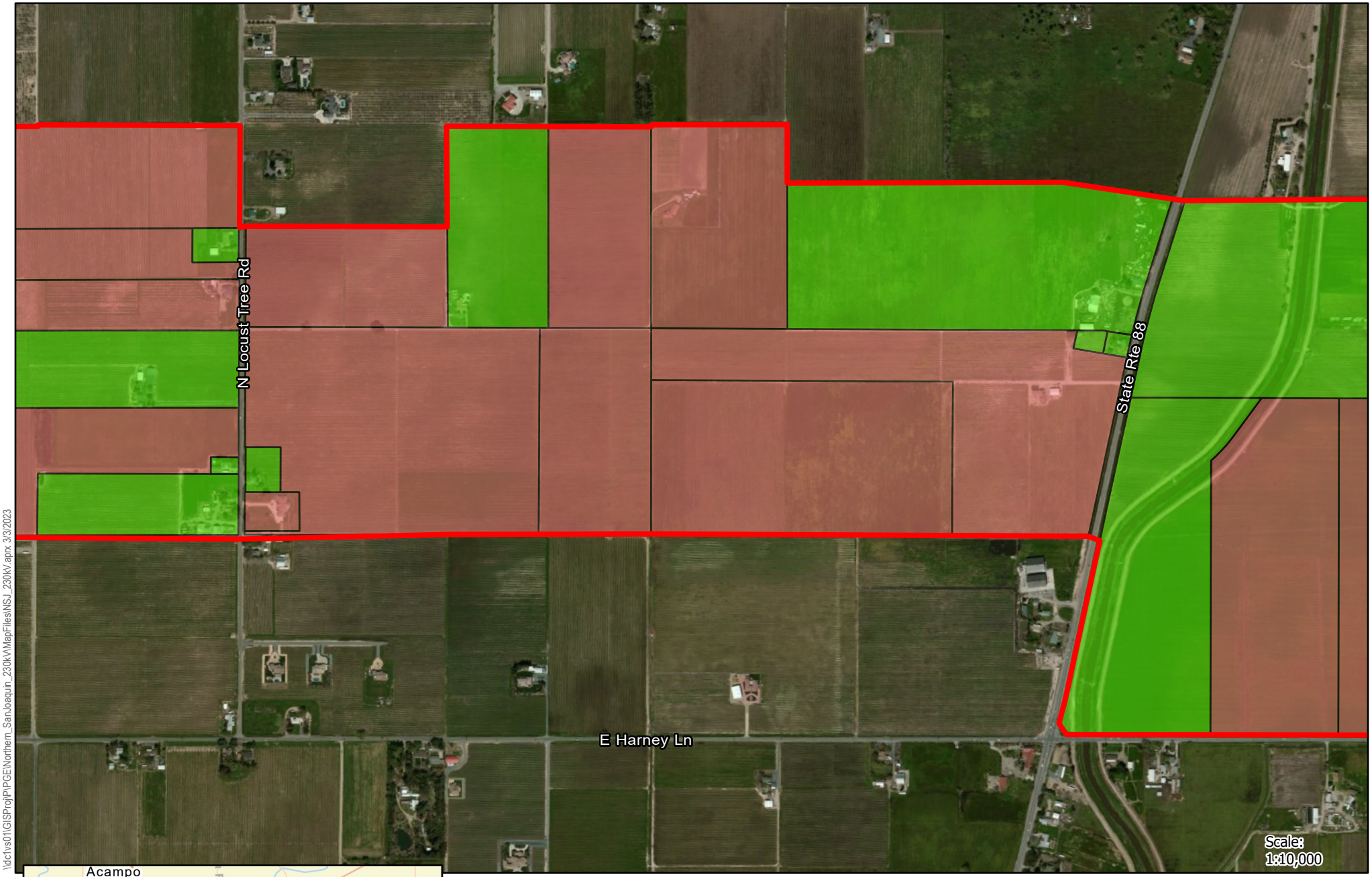
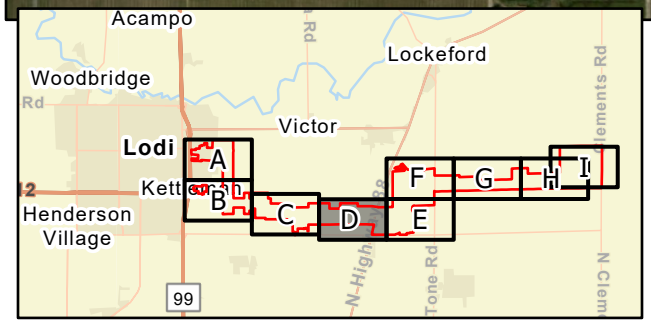




Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

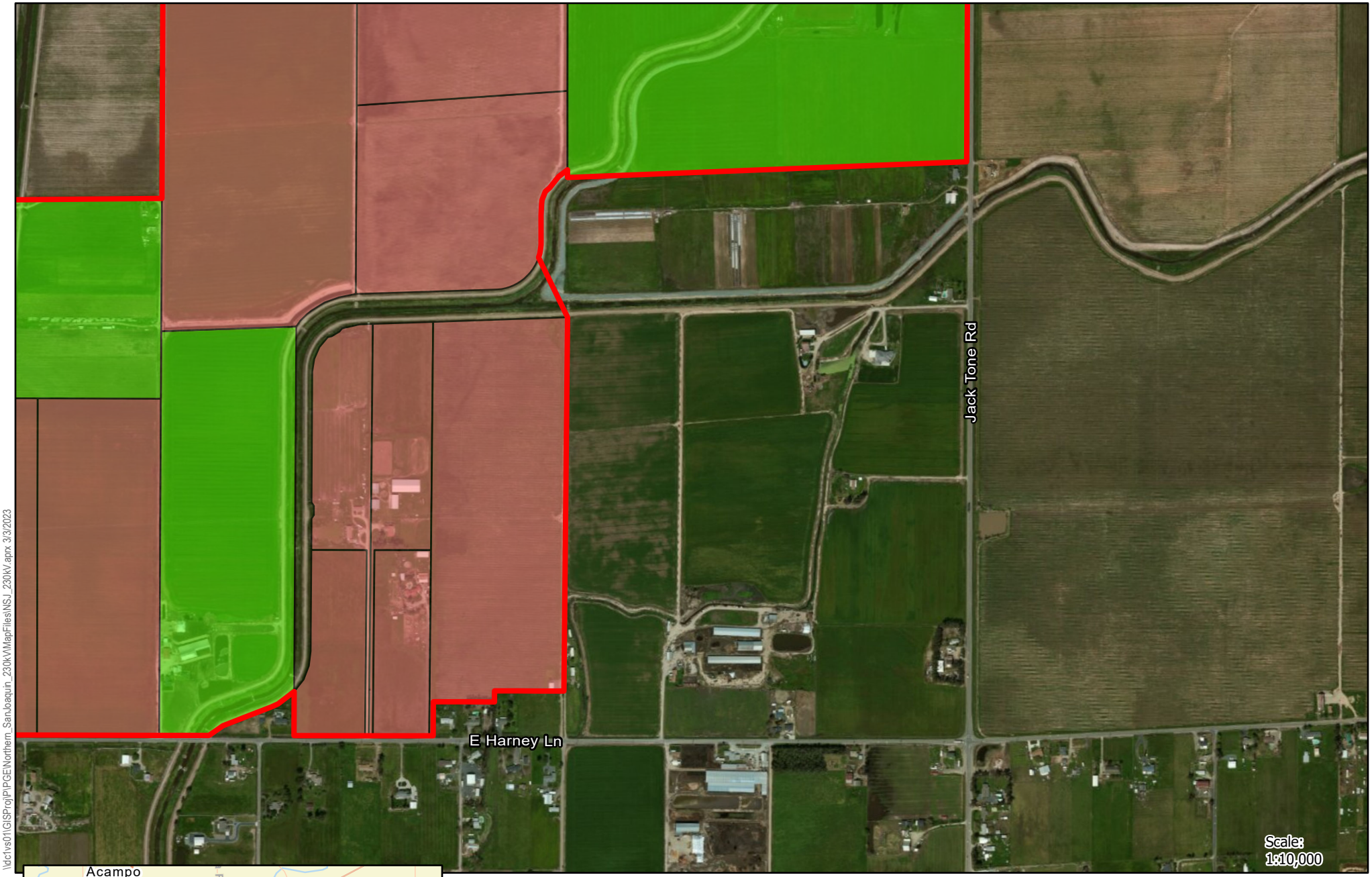
Properties Post-Dating the Survey Cutoff Date of 1977

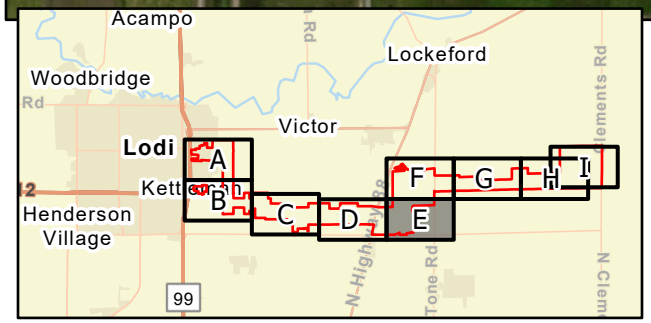
N

0 500 1,000 Feet

FIGURE 4D
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

\\dc1vs01\GISProj\PGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023





Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

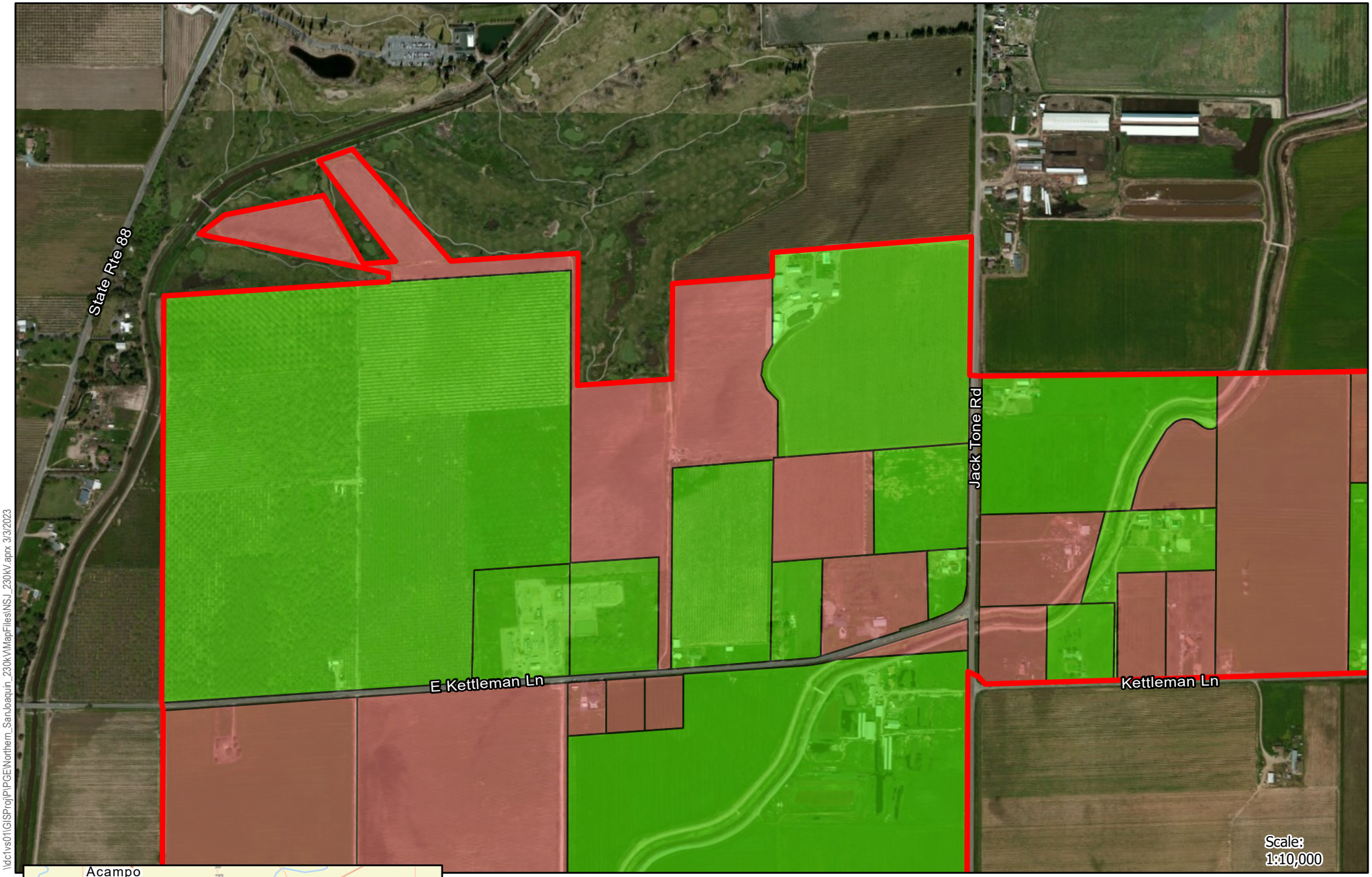
Properties Post-Dating the Survey Cutoff Date of 1977

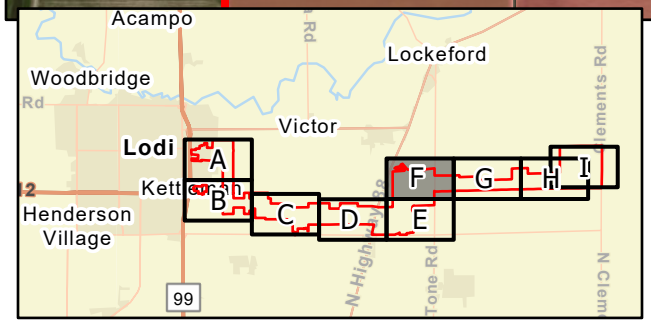
N

0 500 1,000 Feet

FIGURE 4E
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

\\dc1vs01\GISProj\PLPGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023





Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4F
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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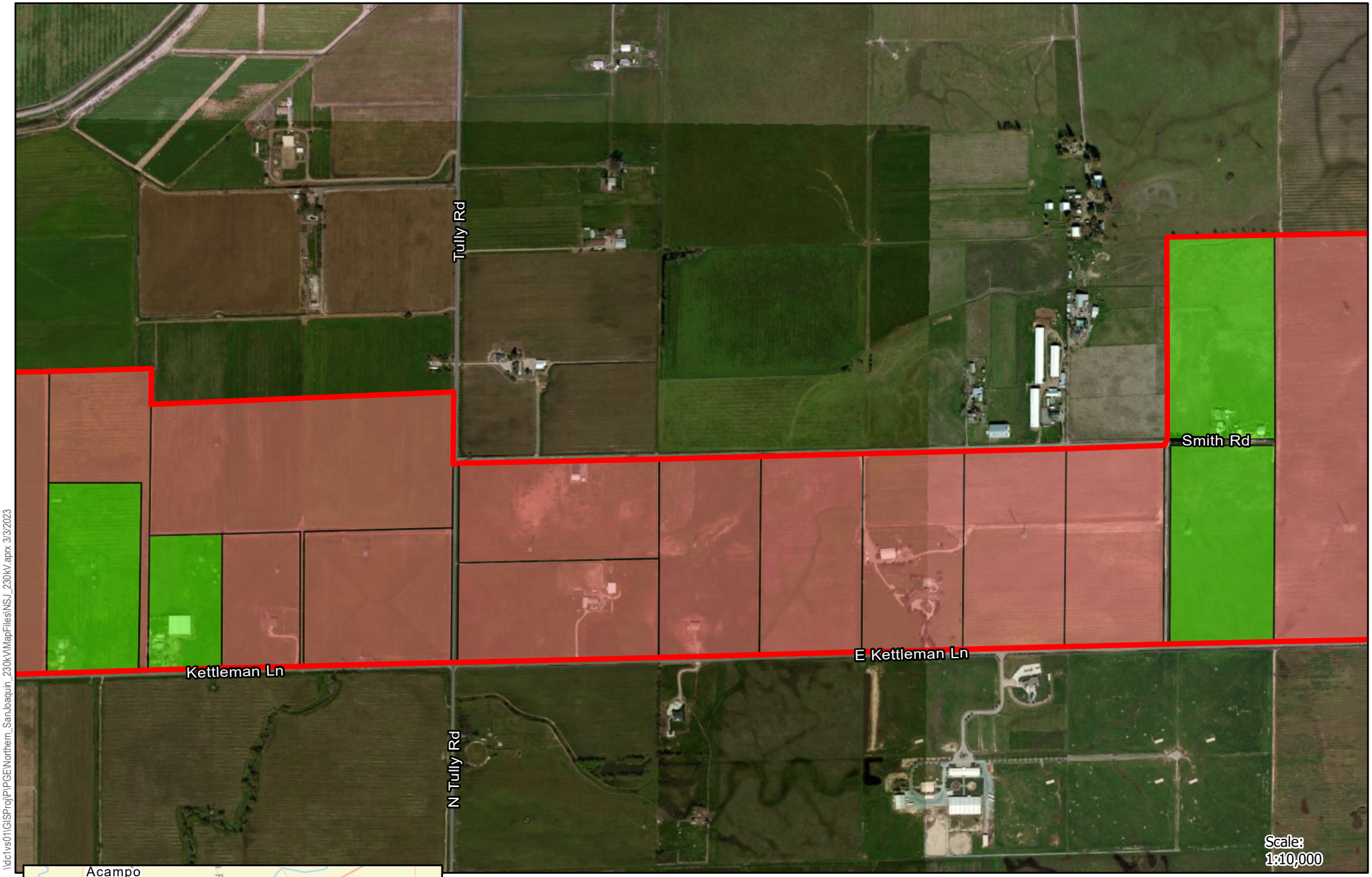
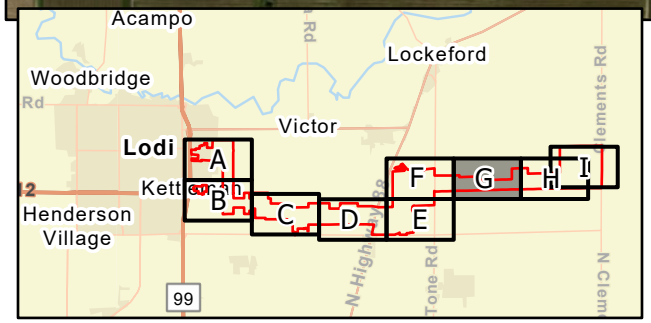




Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

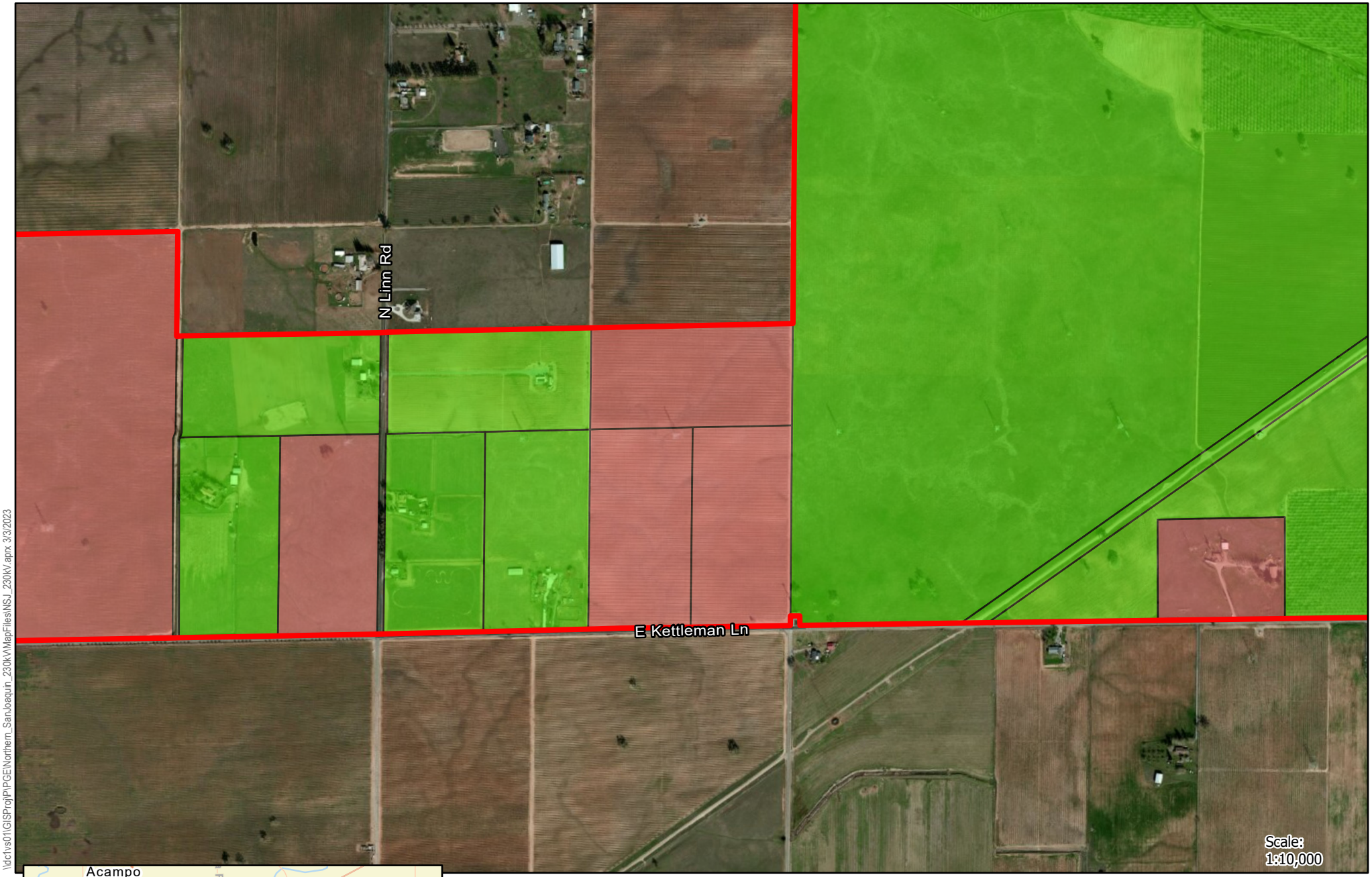
Properties Post-Dating the Survey Cutoff Date of 1977

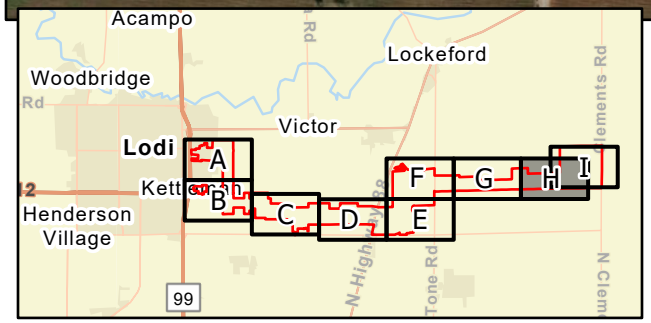
N

0 500 1,000 Feet

FIGURE 4G
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

\\dc1vs01\GISProj\PGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023





Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4H
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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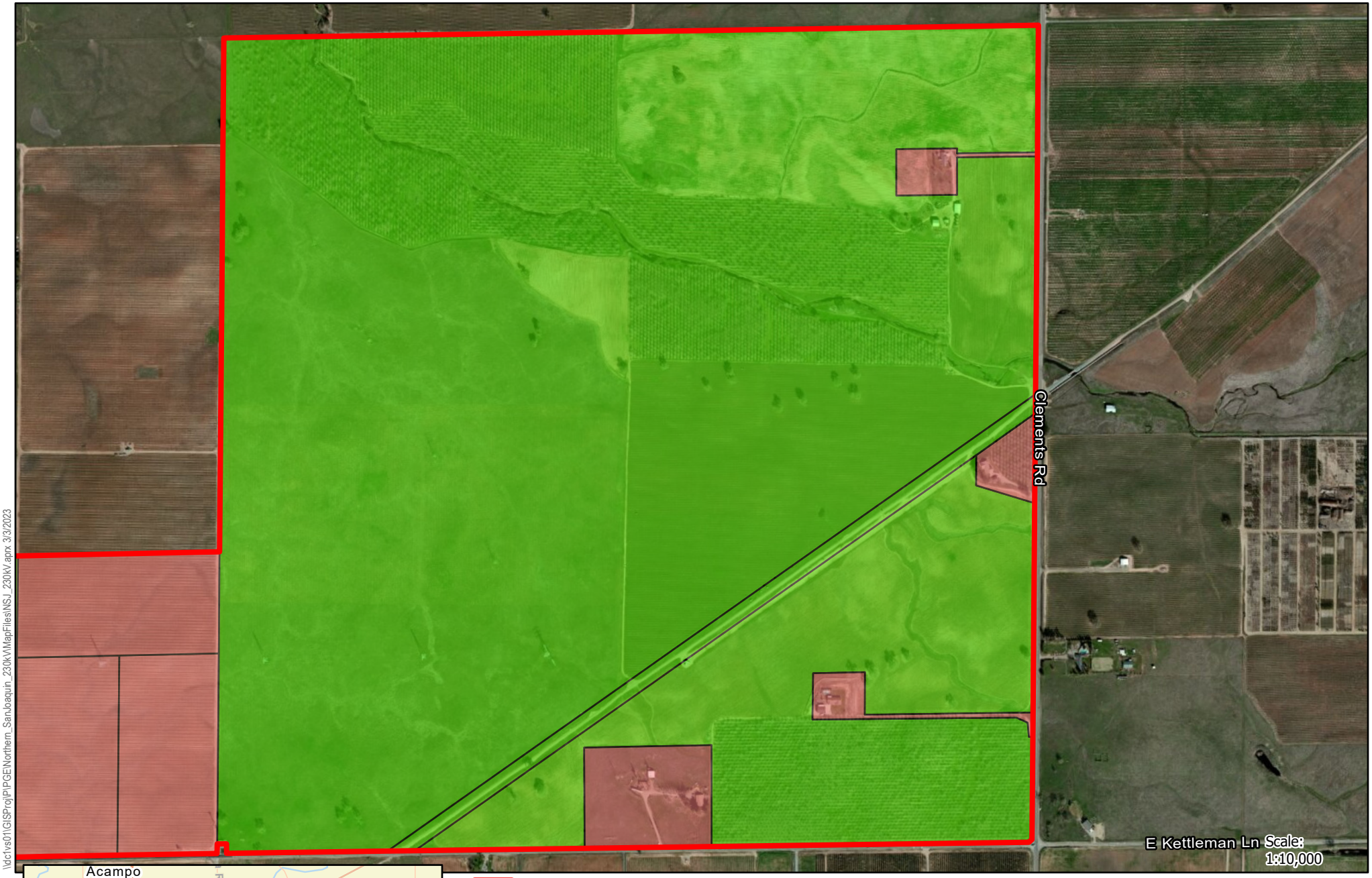

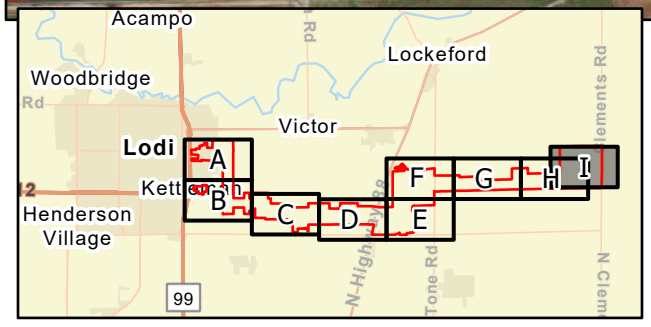

Area of Potential Impacts

Properties Meeting the Survey Cutoff Date of 1977

Properties Post-Dating the Survey Cutoff Date of 1977

N

0 500 1,000 Feet

FIGURE 4I
Age of Properties within Area of Potential Impacts
Northern San Joaquin 230 kV Transmission Project
San Joaquin County, California

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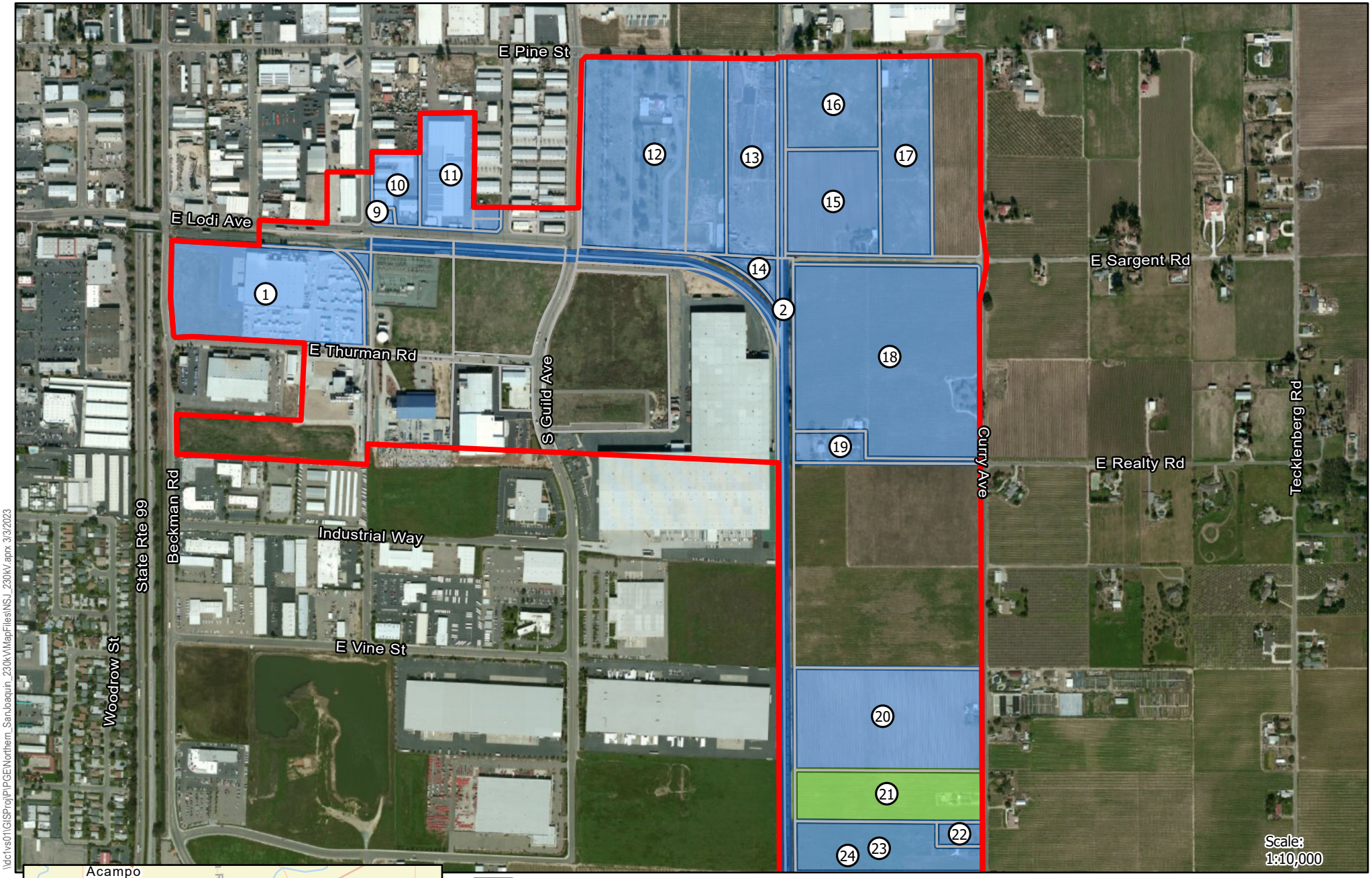

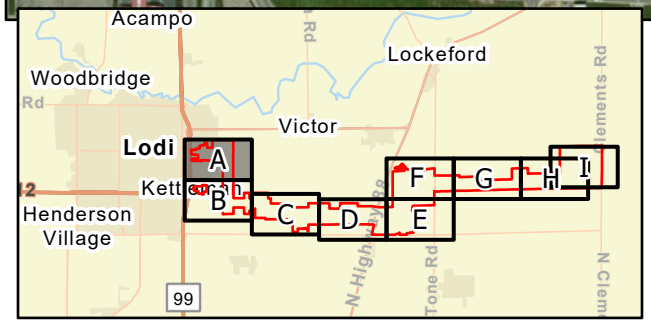

Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

N

0 500 1,000 Feet

FIGURE 5A
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

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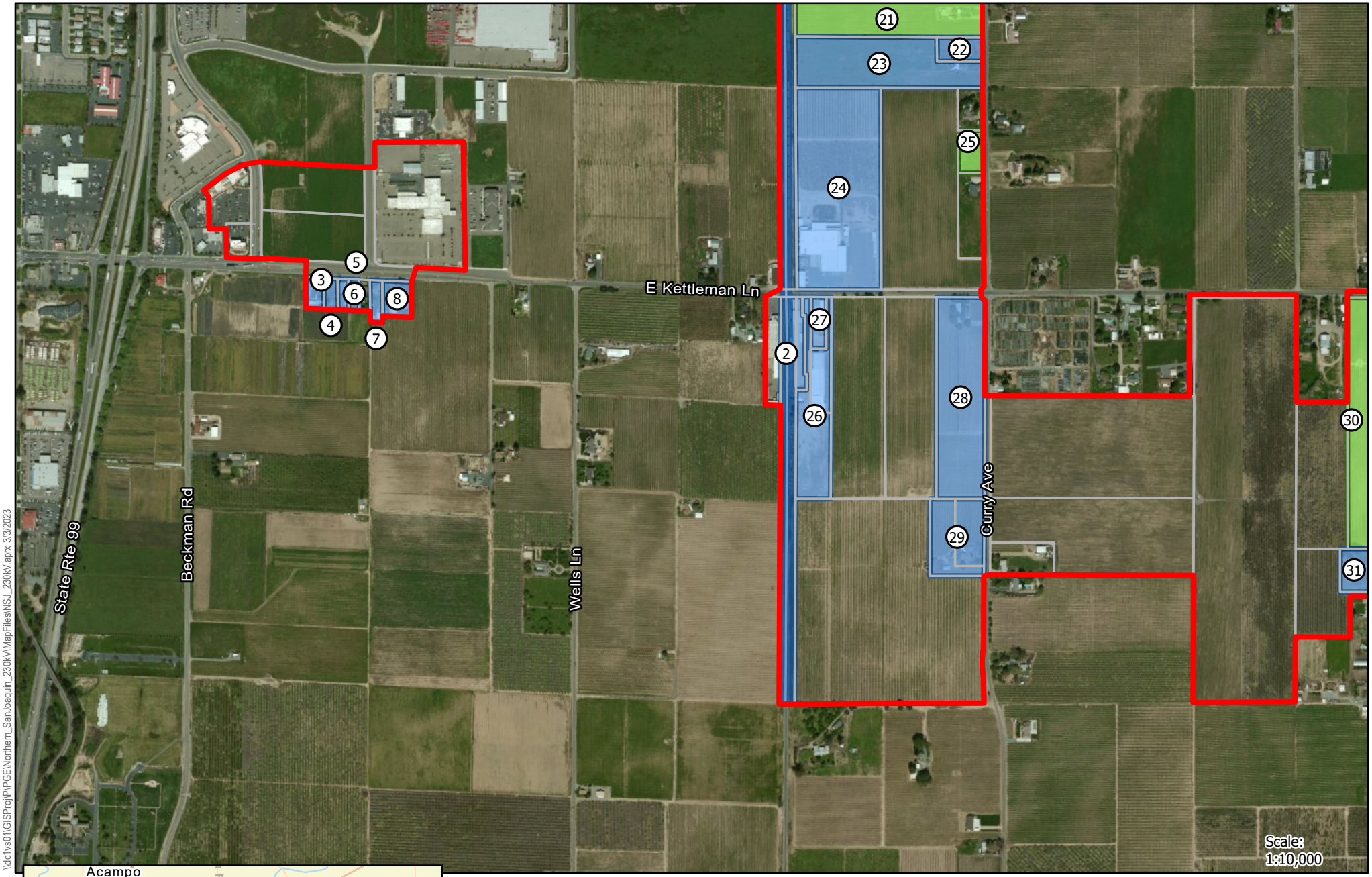

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Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

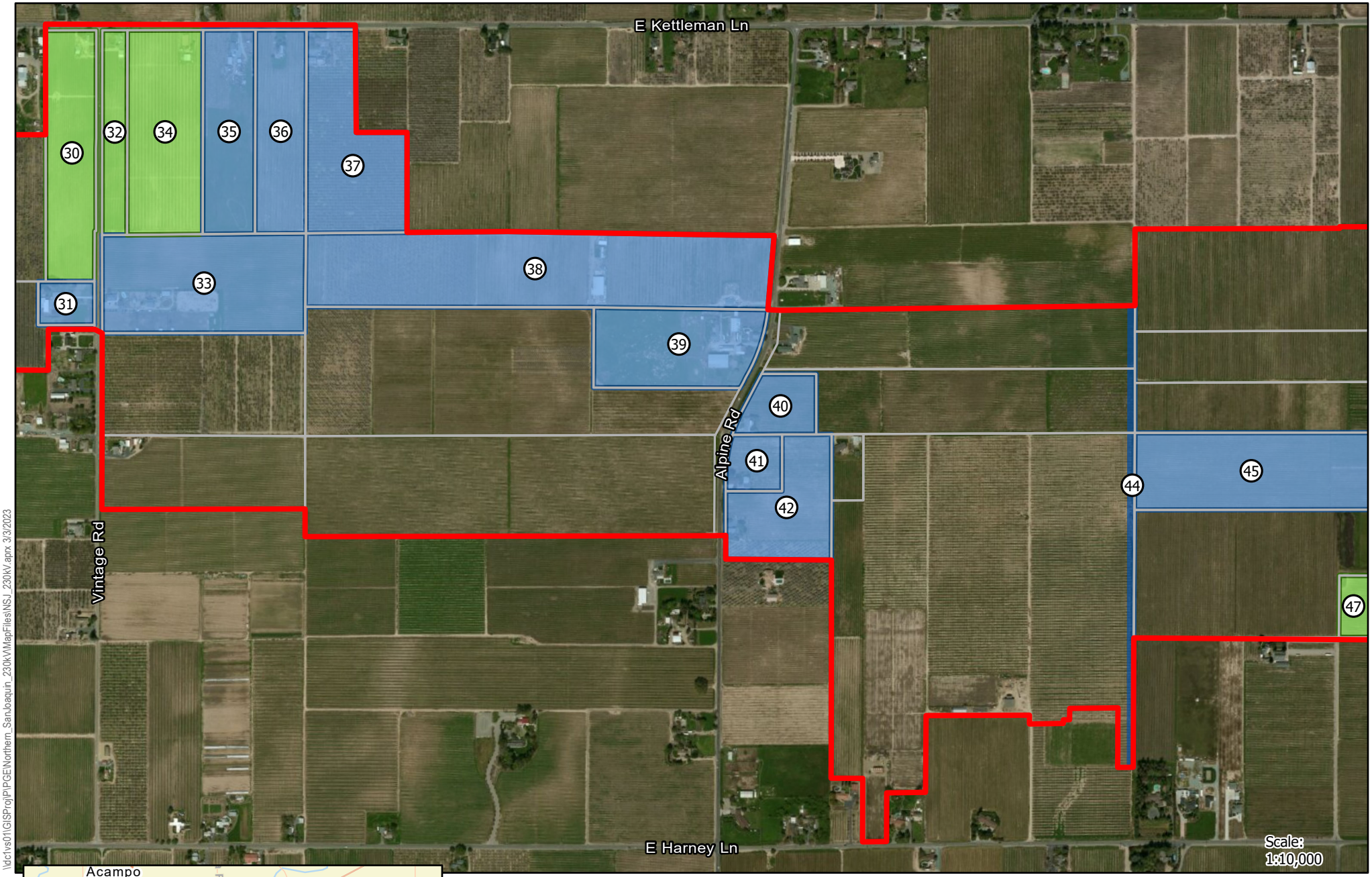
Eligible for the California Register of Historical Resources

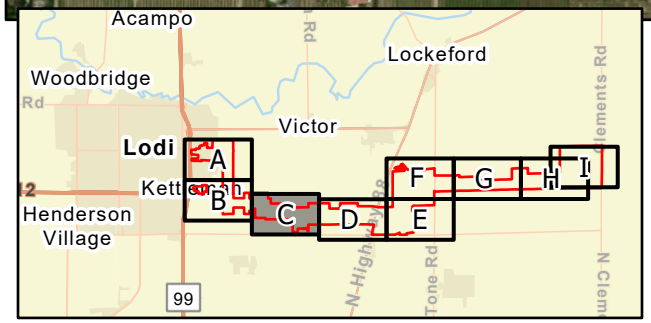
Not Eligible for the California Register of Historical Resources

0 500 1,000 Feet

FIGURE 5B
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.





Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

0 500 1,000 Feet

FIGURE 5C
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

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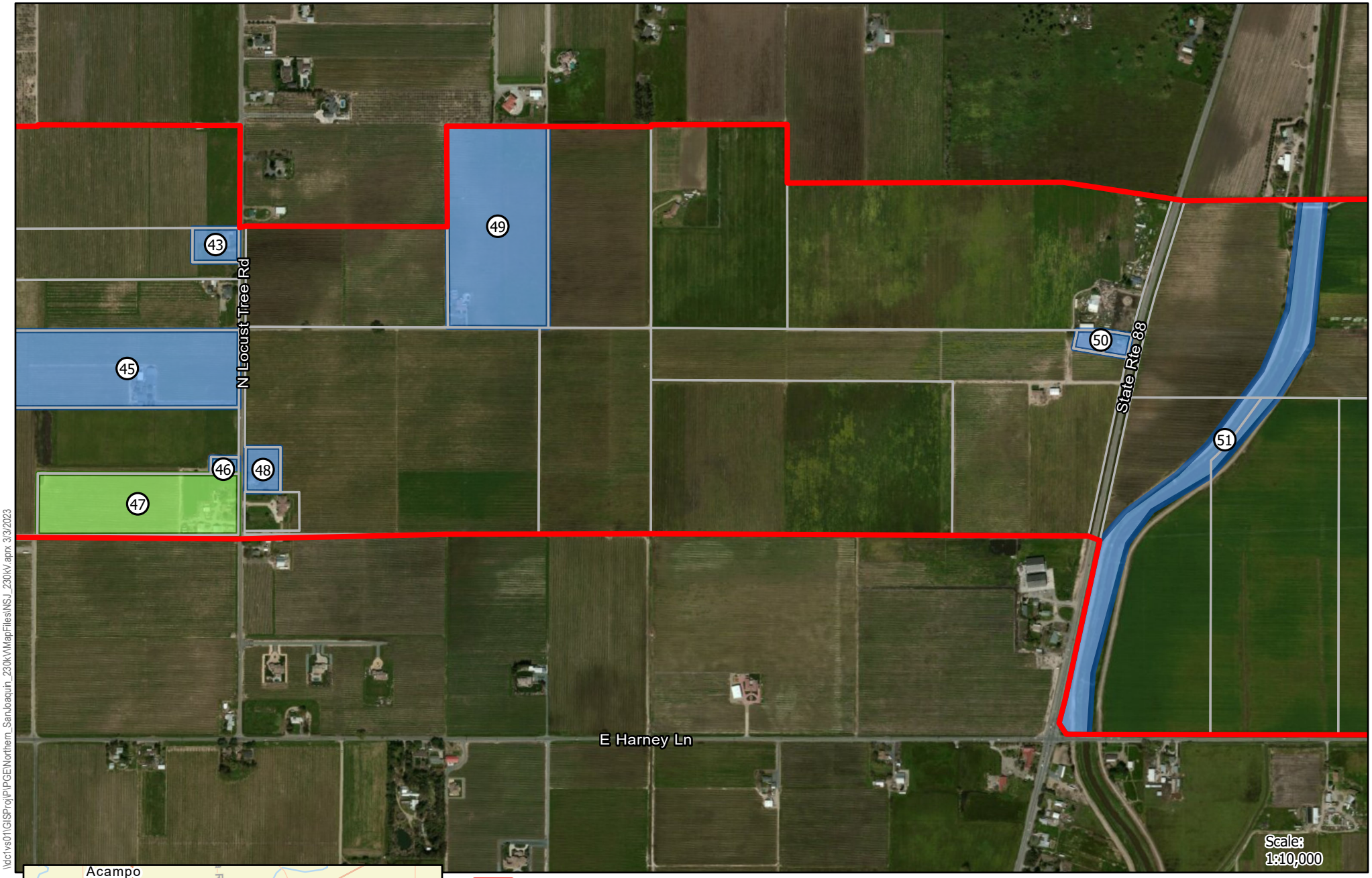

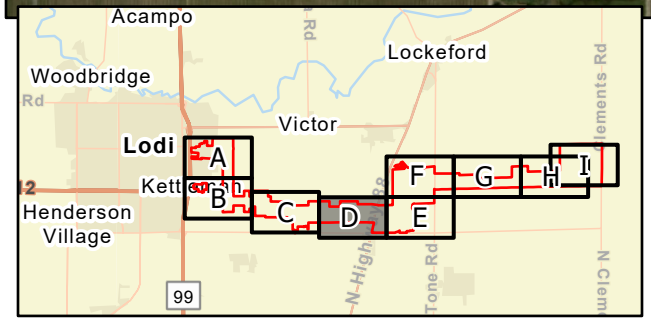

Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

0 500 1,000 Feet

FIGURE 5D
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

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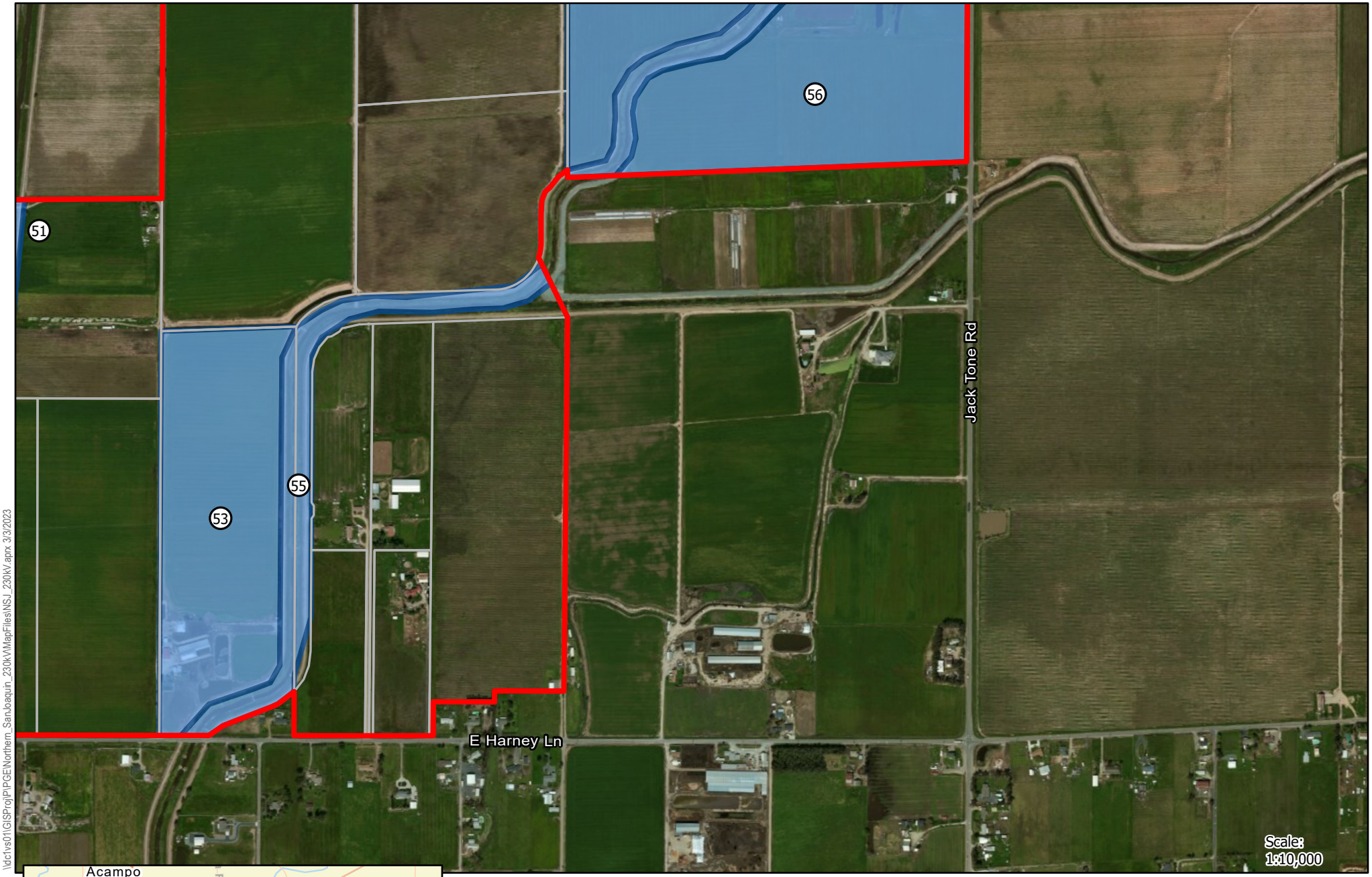

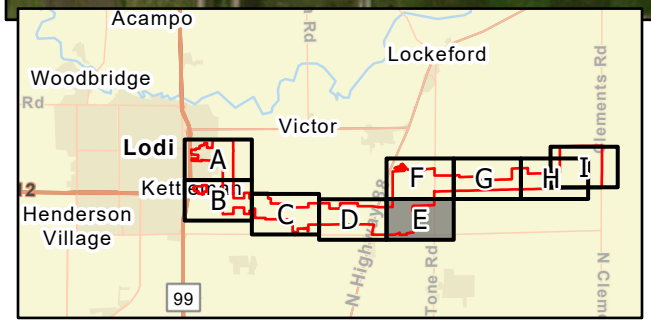

Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

N

0 500 1,000 Feet

FIGURE 5E
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

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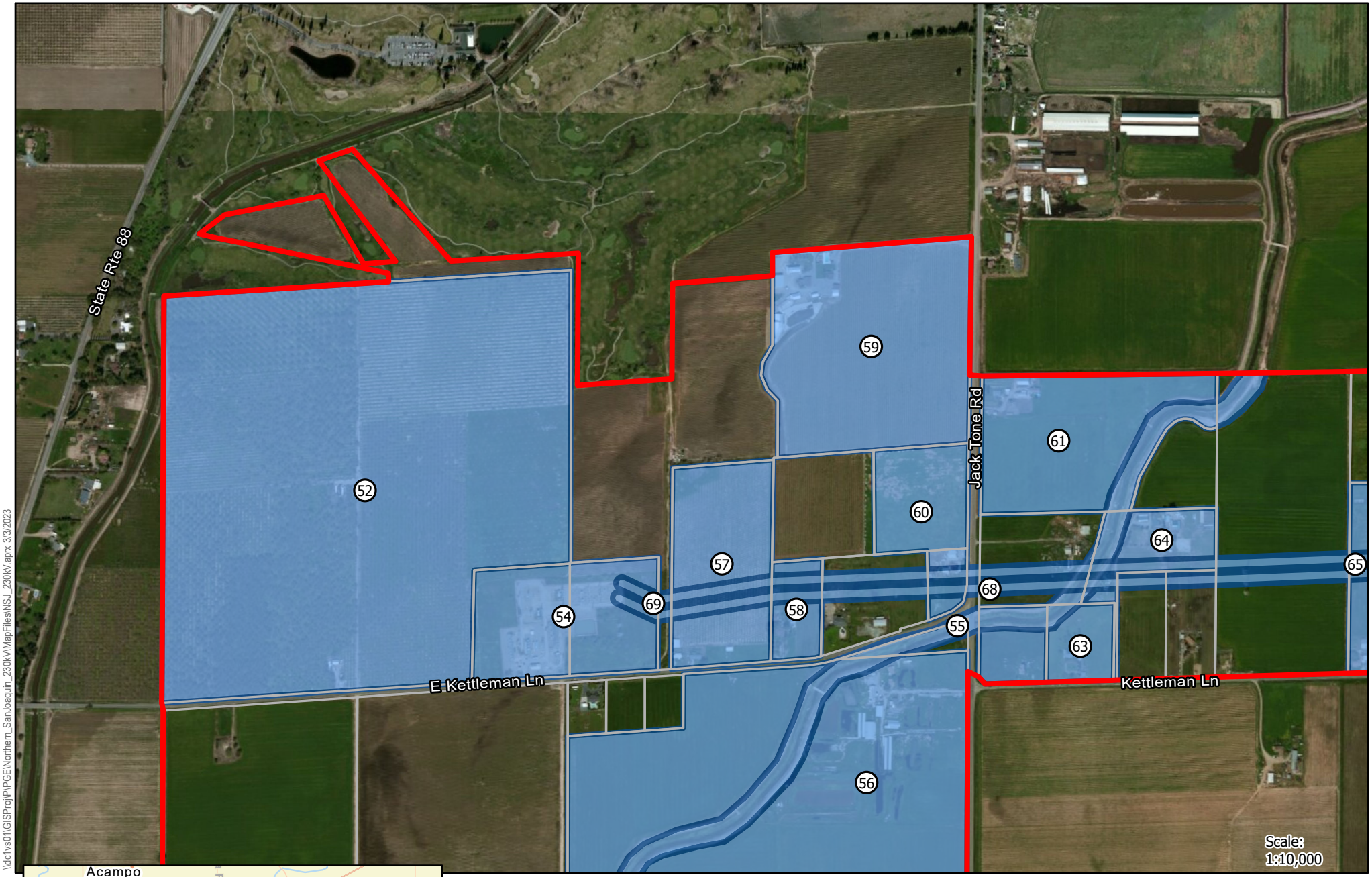
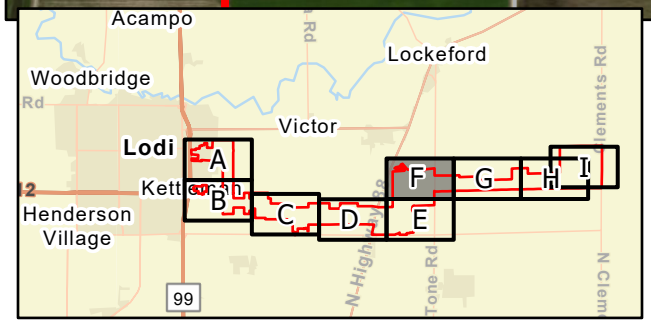




Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

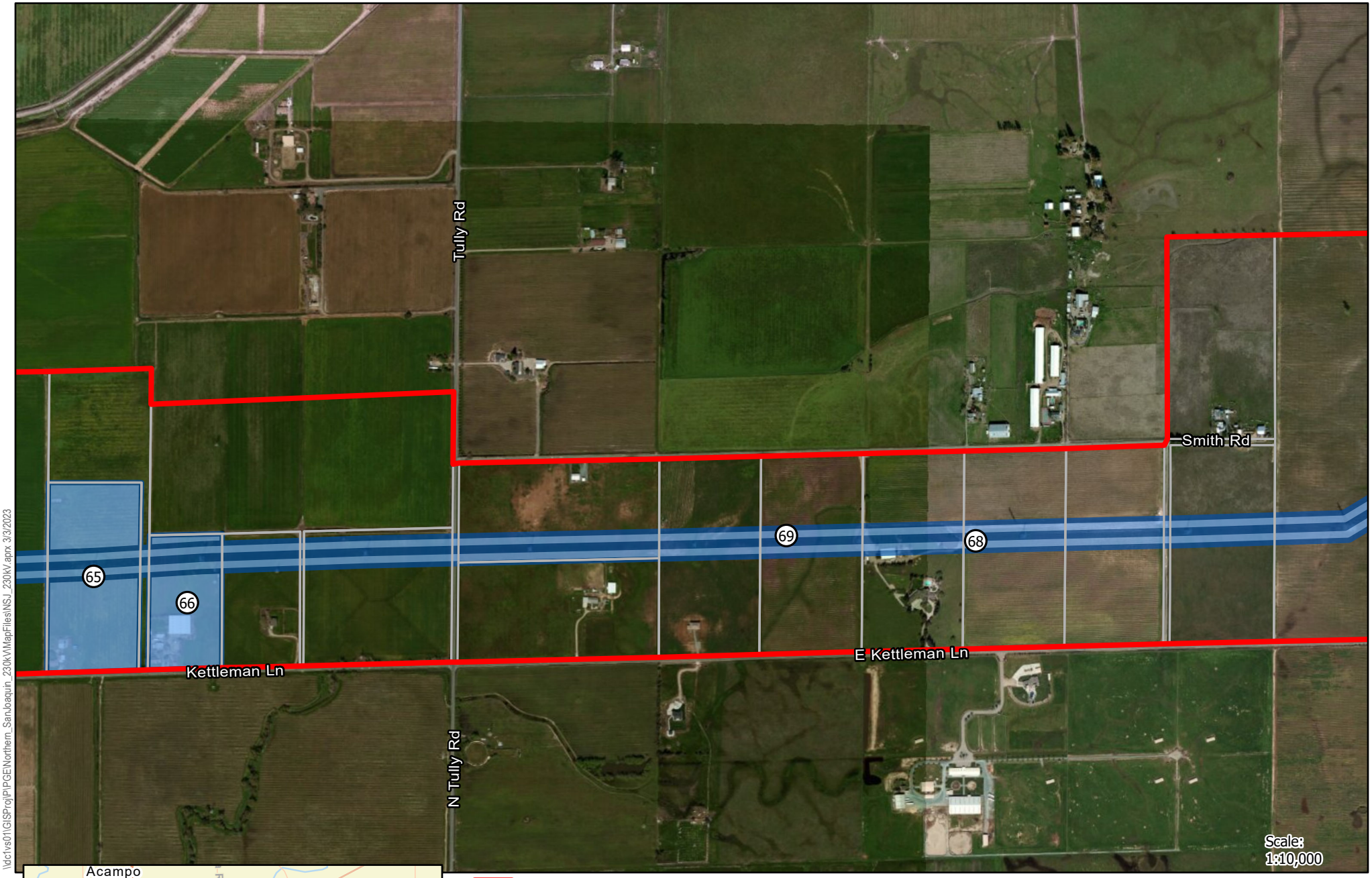
N

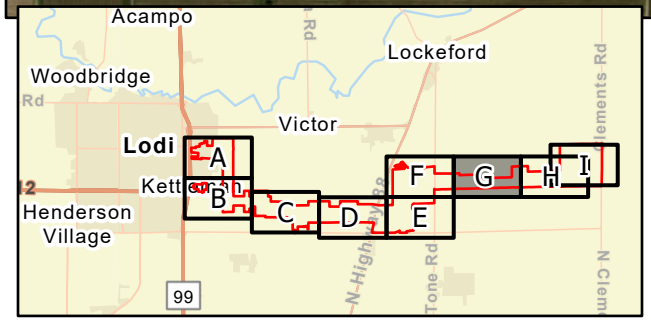
0 500 1,000 Feet

FIGURE 5F
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

\\dc1vs01\GISProj\PGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023





Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

N

0 500 1,000 Feet

FIGURE 5G
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

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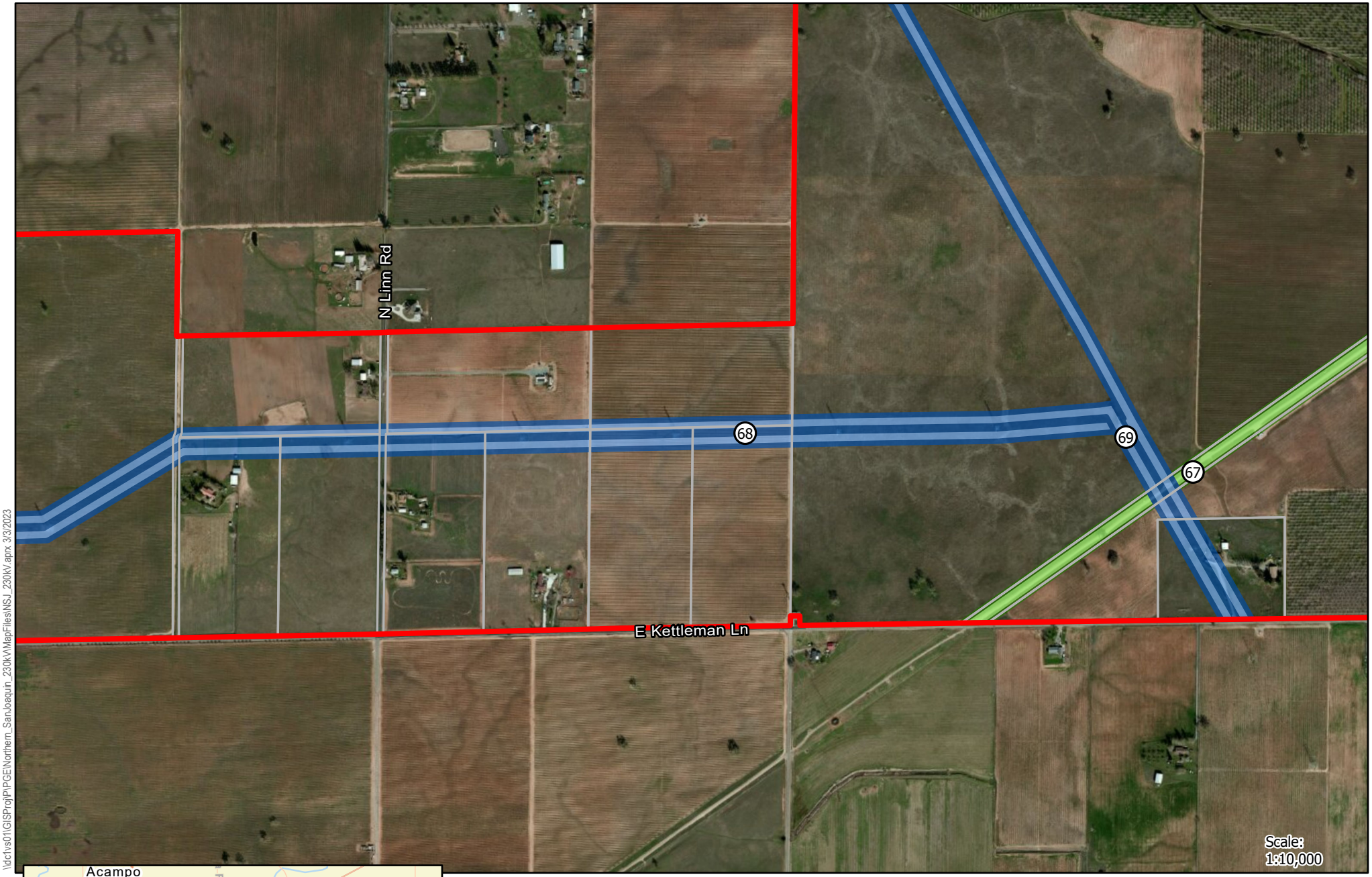
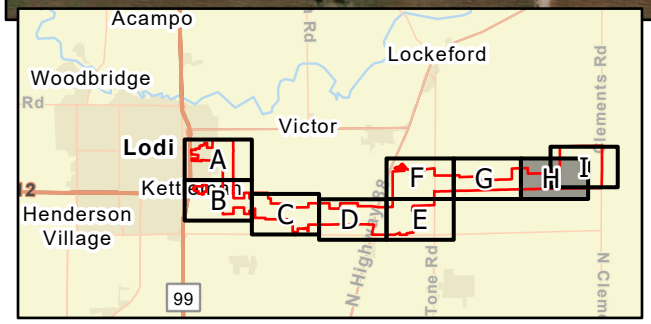




Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

N

0 500 1,000 Feet

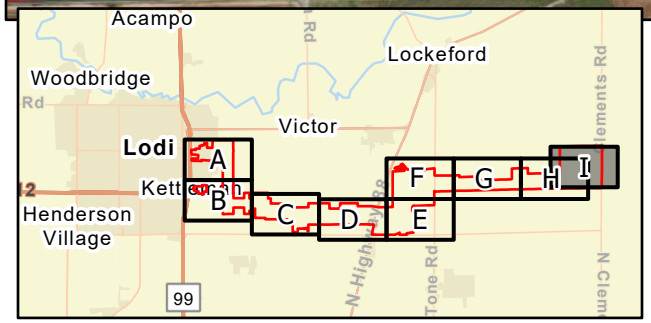
FIGURE 5H
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

\\dc1vs01\GISProj\PGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023



Scale: 1:10,000



Area of Potential Impacts

Parcel Boundaries

Eligibility Determination

Eligible for the California Register of Historical Resources

Not Eligible for the California Register of Historical Resources

N

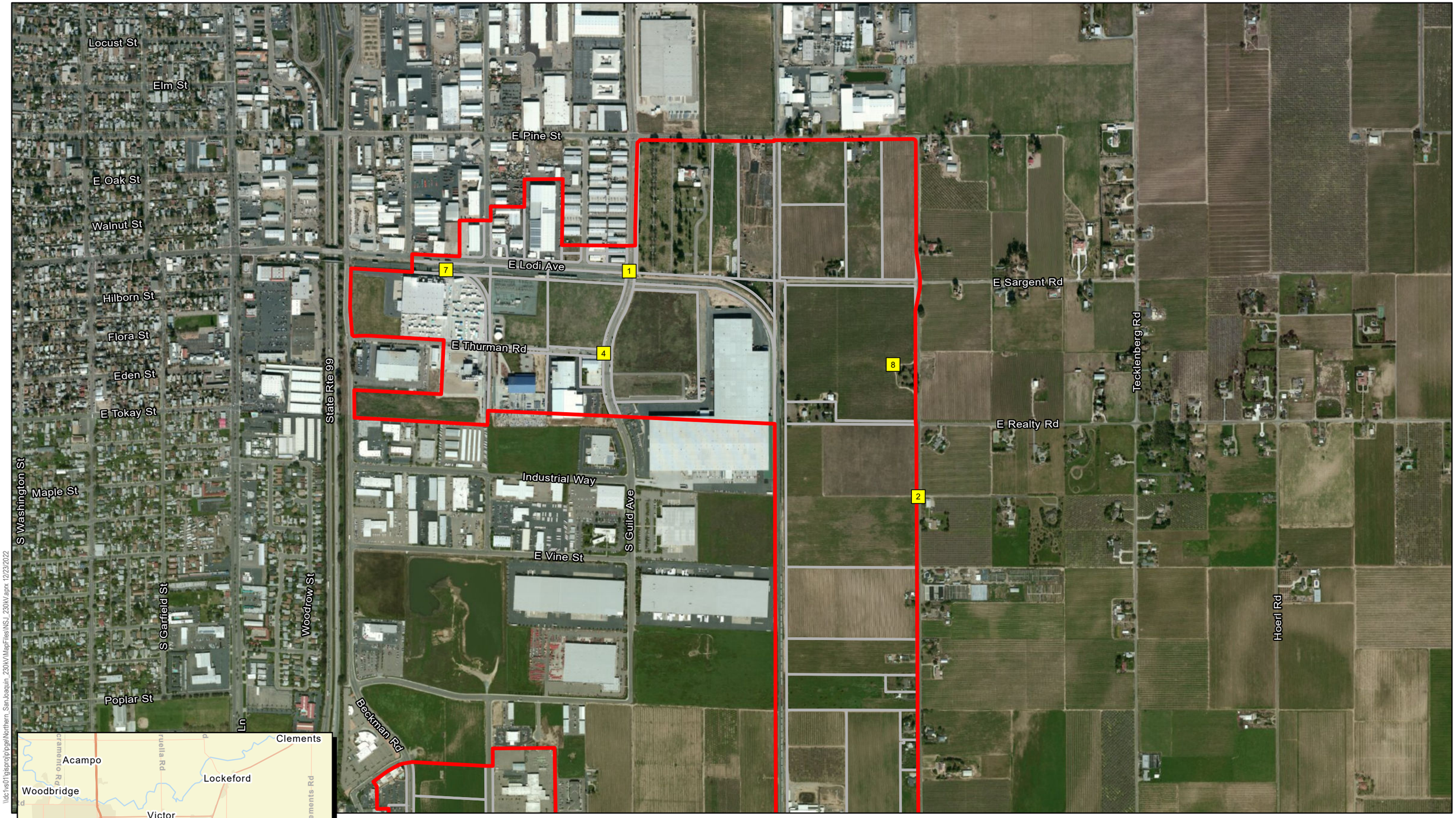
0 500 1,000 Feet

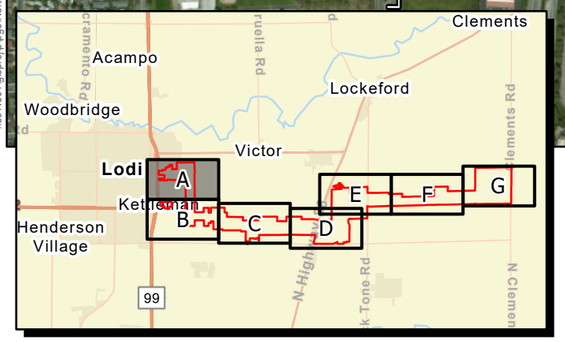
FIGURE 5I
Survey Results
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population and Resource Identifier 62 is not being used.

\\dc1vs01\GISProj\PGE\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 3/3/2023

Appendix B
Representative Photographs





Area of Potential Impacts
Parcel Boundaries
1 Photograph Location with Photograph Key Number

N

0 500 1,000 Feet

Scale:
1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

\\dc1ve01\gisproj\pge\Northern_SanJoaquin_230kV\MapFiles\NSJ_230kV.aprx 12/23/2022

Poplar St
Central Ave
Beckman Rd
S Guild Ave
E Kettleman Ln
Cherokee Ln
Almond Dr
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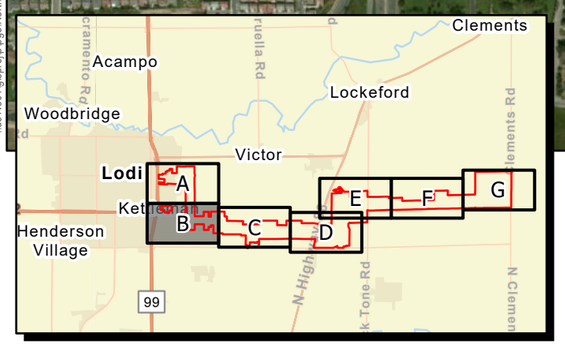
State Rte 99
Wells Ln
Curry Ave
Tecklenberg Rd
Hoerl Rd
Vintage Rd
E Harney Ln
9
10



Area of Potential Impacts
Parcel Boundaries
1 Photograph Location with Photograph Key Number

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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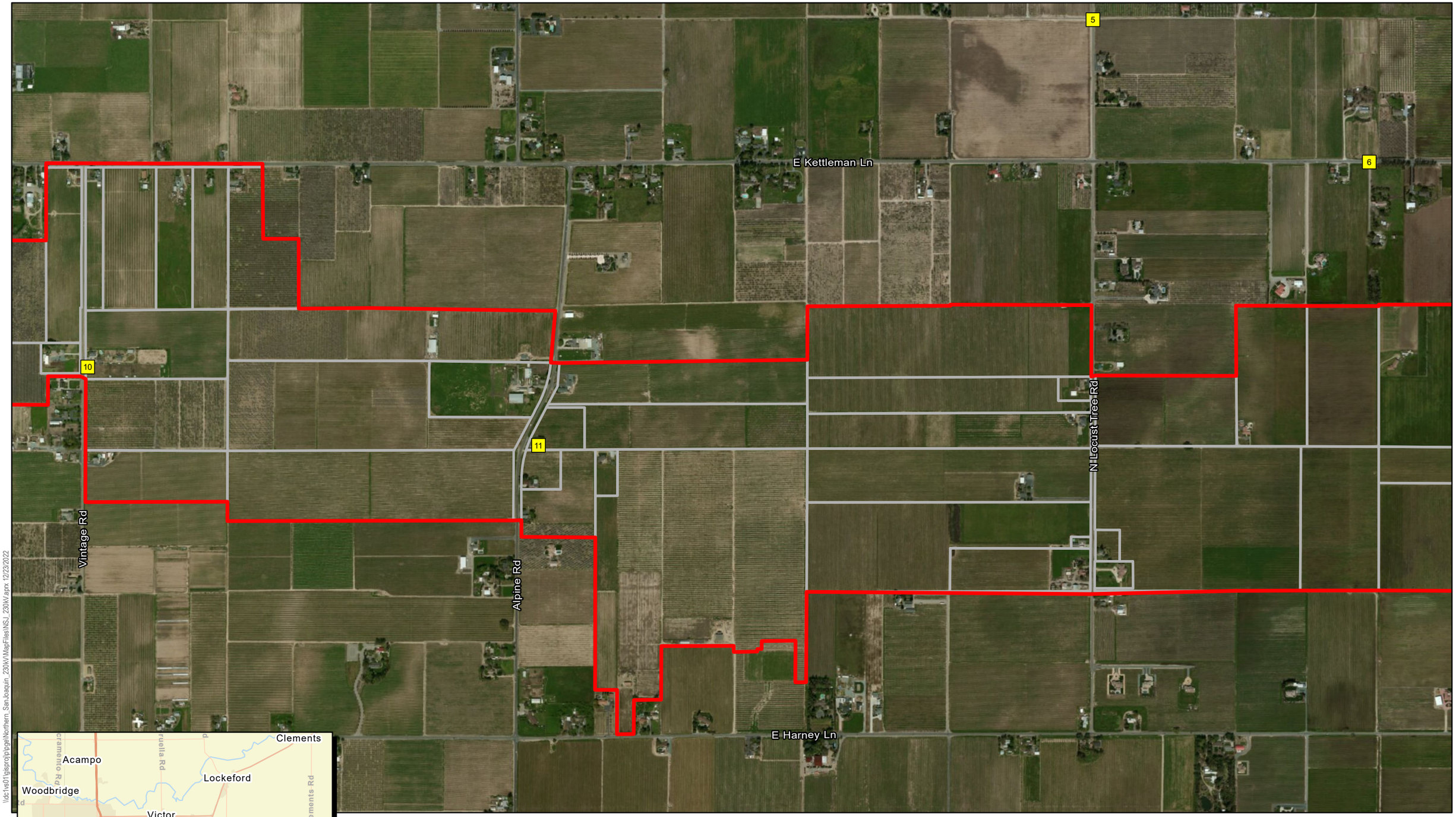

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Area of Potential Impacts

Parcel Boundaries

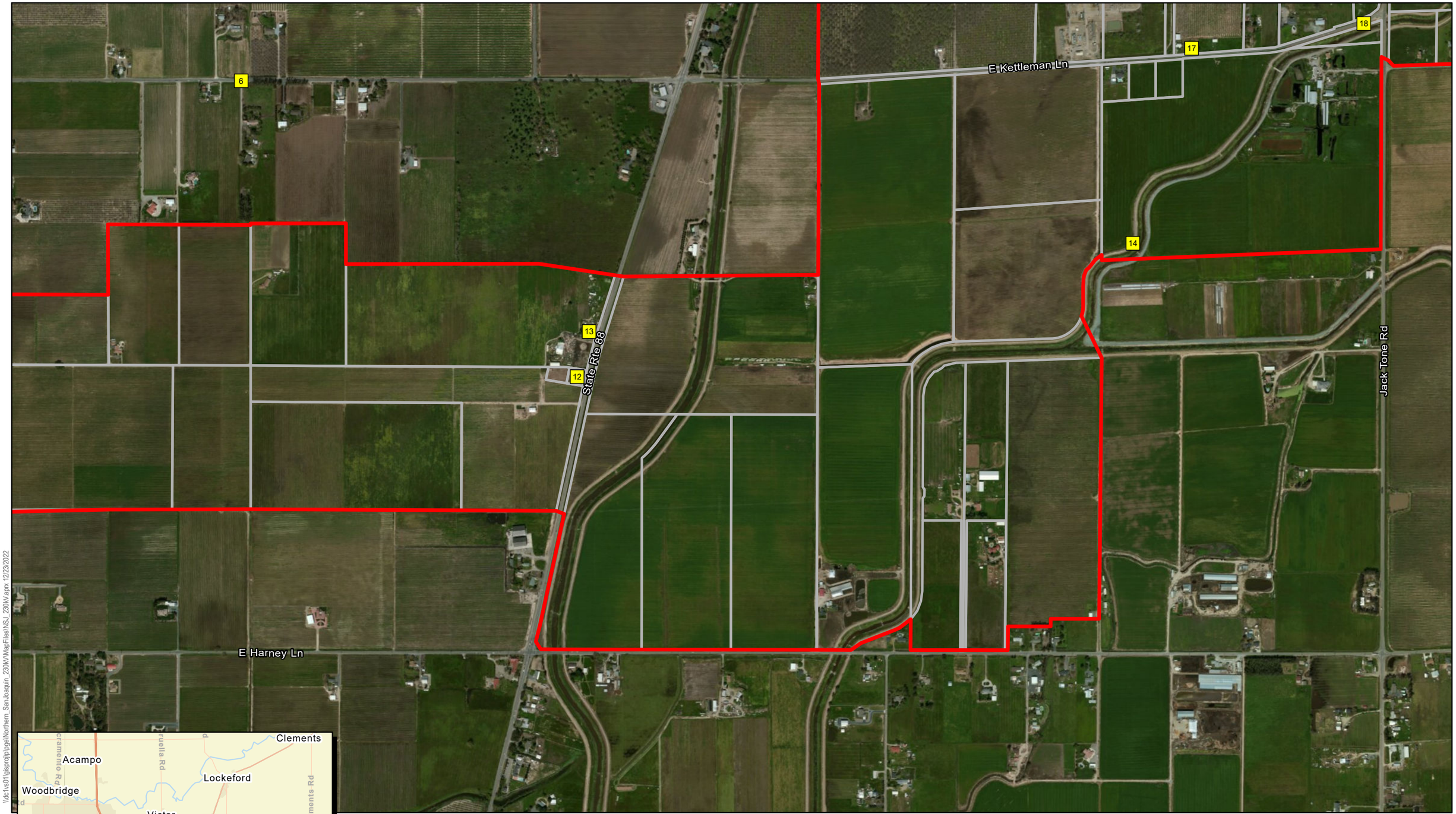
1 Photograph Location with Photograph Key Number

N

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California



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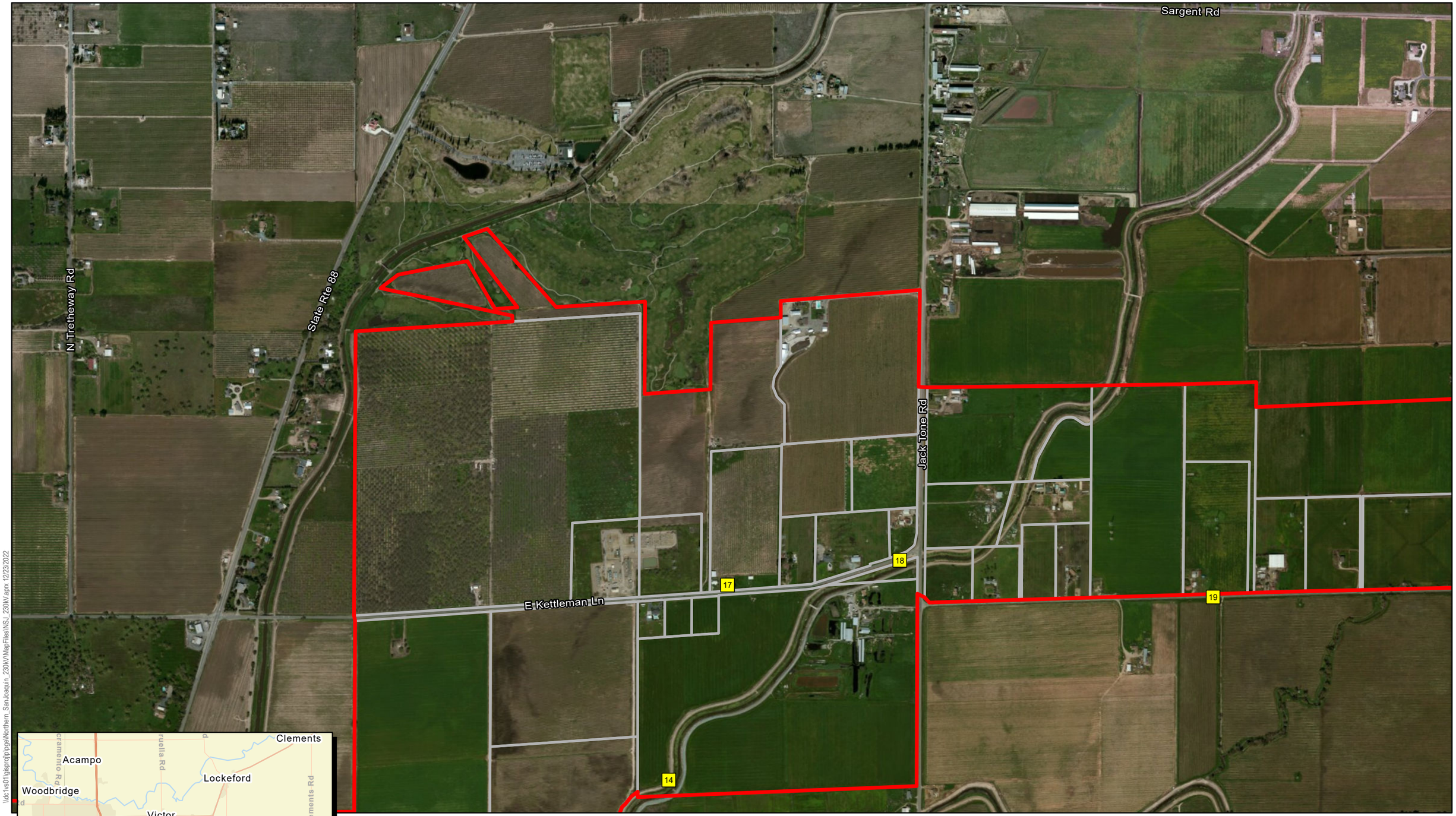
Area of Potential Impacts
Parcel Boundaries
1 Photograph Location with Photograph Key Number

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California



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Area of Potential Impacts

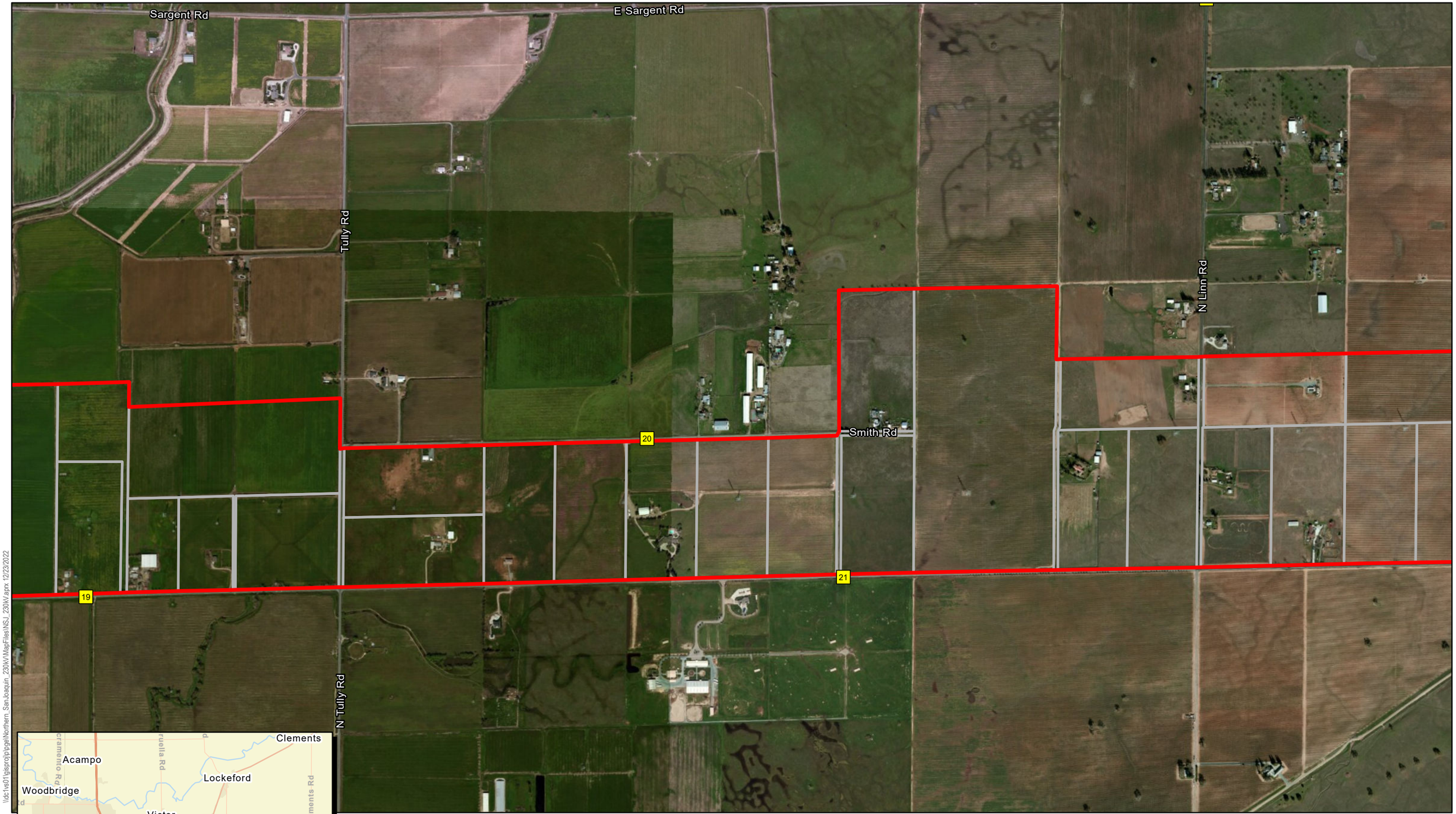
Parcel Boundaries

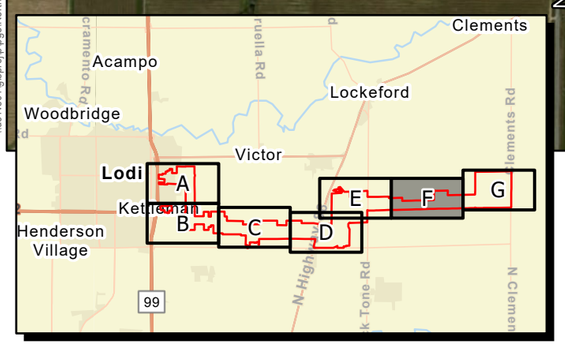
1 Photograph Location with Photograph Key Number

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California





Area of Potential Impacts

Parcel Boundaries

1 Photograph Location with Photograph Key Number

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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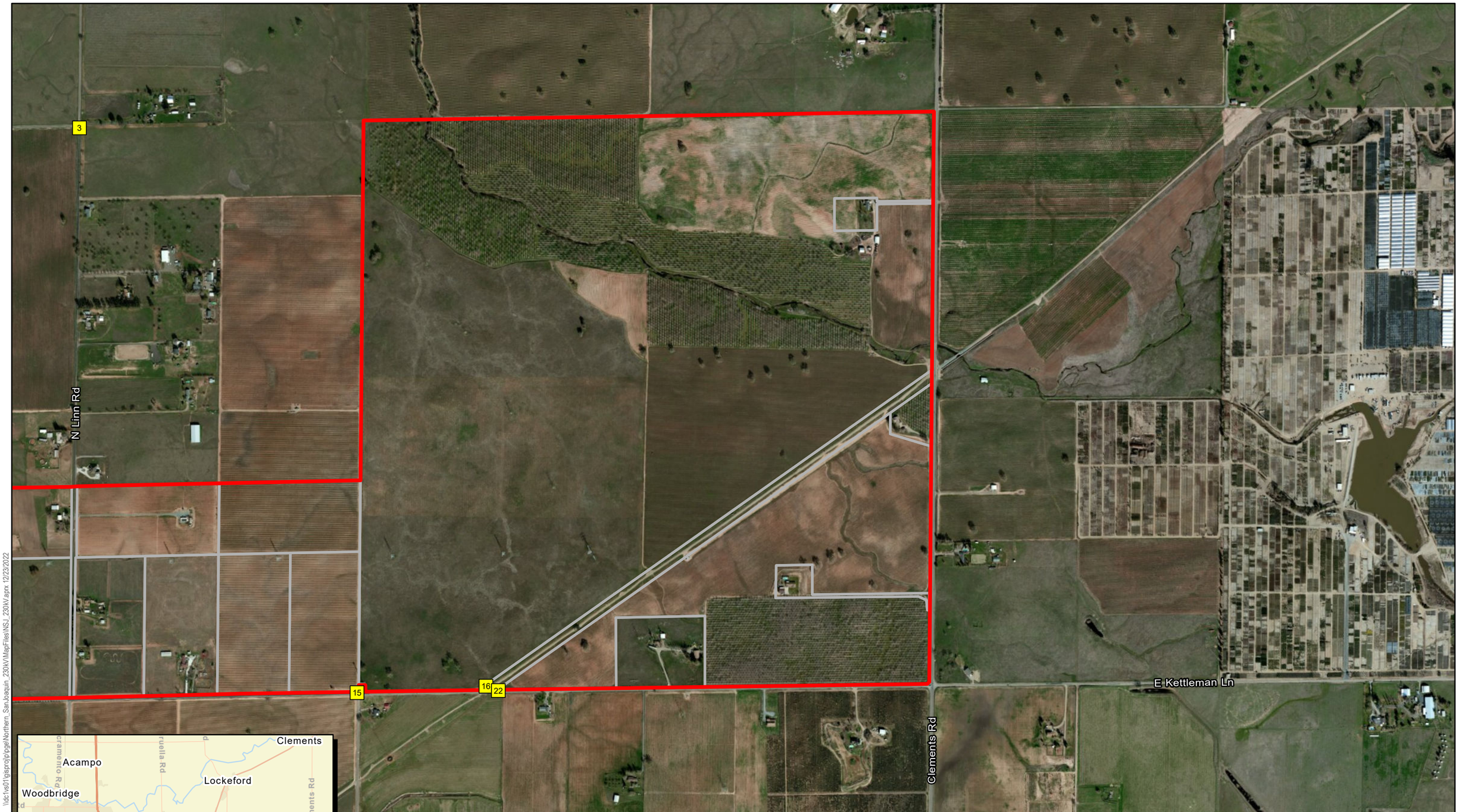

Area of Potential Impacts

Parcel Boundaries

1 Photograph Location with Photograph Key Number

0 500 1,000 Feet

Scale: 1:10,000

Photograph Key
Northern San Joaquin 230 kV
Transmission Project
San Joaquin County, California

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Representative Photos – North and Central Alignments



Photograph 1. North Alternative at E Lodi Ave and S Guild Ave, view south (Google Earth 2022).



Photograph 2. North Alternative at the divergence from the Preferred Alternative at Curry Avenue, view south (Google Earth 2022)



Photograph 3. North Alternative at E Sargent Road and N Linn Road, view south (Google Earth 2022)



Photograph 4. Central Alternative south of E Thurman Road on S Guild Avenue, view south. (Google Earth 2022)



Photograph 5. Central Alternative at Newfield Road and North Locust Tree Road, view north (Google Earth 2022).



Photograph 6. Central Alternative at E Kettleman Lane, view south (Google Earth 2022).

Representative Photos – API



Photograph 7. Western end of API with view of LEU Industrial Substation, view west (Jacobs 2022).



Photograph 8. View of Preferred Alignment location, view west (Jacobs 2022).



Photograph 9. View of Preferred Alignment location at southeastern end of API, view east (Jacobs 2022).



Photograph 10. Rural property south of Preferred Alignment location, view northeast (Jacobs 2022).



Photograph 11. Preferred Alignment location at Alpine Road, view north (Jacobs 2022).



Photograph 12. Center of API from SR 88, view southwest (Jacobs 2022).



Photograph 13. View of Preferred Alignment location at Bear Creek, view south (Jacobs 2022).



Photograph 14. View of Preferred Alignment location at Paddy Creek, view north (Jacobs 2022).



Photograph 15. View of Preferred Alignment location and current PG&E 230 kV transmission line at eastern end of API, view north (Jacobs 2022)



Photograph 16. View of Preferred Alignment location and current PG&E 230 kV transmission lines at far eastern end of API (Jacobs 2022).

Representative Photos – New Transmission Line located alongside Existing Line



Photograph 17. Beginning of the area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines, leaving PG&E Lockeford Substation. Preferred Alignment location is approximately 450 feet north of current towers. View north from E Kettleman Lane (Jacobs 2022).



Photograph 18. Area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines, at E Kettleman Lane and Jack Tone Road. Preferred Alignment location is approximately 450 feet north of current towers. View northeast from E Kettleman Lane (Jacobs 2022).



Photograph 19. Area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines on E Kettleman Lane between Jack Tone Road and N Tully Road. Preferred Alignment location is approximately 300 feet north of current towers. View north from E Kettleman Lane (Jacobs 2022).



Photograph 20. Area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines on E Kettleman Lane and Smith Road. Preferred Alignment location is approximately 80 feet north of current towers. View south from Smith Road (Jacobs 2022).



Photograph 21. Area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines on E Kettleman Lane. Preferred Alignment location is approximately 75 feet north of current towers. View north from E Kettleman Lane (Jacobs 2022).



Photograph 22. Area where the new PG&E transmission line would be located alongside PG&E Brighton-Bellota and Rio Oso-Lockeford 230 kV transmission lines at far eastern end of API. Preferred Alignment location is approximately 100 feet north of current towers. View north from E Kettleman Lane (Jacobs 2022).

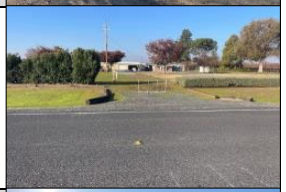
Appendix C
Survey Results Matrix

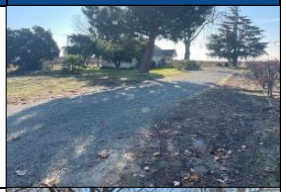
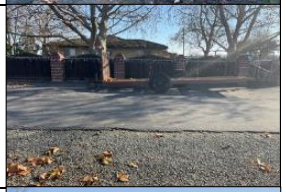
Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
1	N/A	300 S BECKMAN RD	049-310-060	Westlake Chemical/NAPCO Pipe & Fittings	1968	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
2	P-39-004457	N/A	049-310-020	Central California Traction Railroad	1907-1910	Segments previously recorded outside the API are unevaluated or were recommended not eligible for listing in the CRHR and NRHP. Segment within the API is previously unrecorded and is recommended not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
3	N/A	5070 E KETTLEMAN LN	061-020-160	N/A	1905	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
4	N/A	5100 E KETTLEMAN LN	061-020-170	N/A	1960	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
5	N/A	5136 E KETTLEMAN LN	061-020-180	N/A	1949	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
6	N/A	5174 E KETTLEMAN LN	061-020-190	N/A	c. 1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
7	N/A	5242 E KETTLEMAN LN	061-030-010	N/A	1935	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

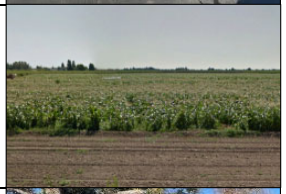
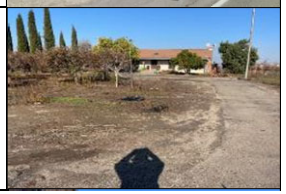
Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
8	N/A	5260 E KETTLEMAN LN	061-030-580	N/A	1933	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
9	N/A	1203 E LODI AVE	049-090-410	California Farm Supply	c. 1967	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
10	N/A	214 S CLUFF AVE	049-090-400	N/A	c. 1967	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
11	N/A	1303 E LODI AVE, 269 COMMERCE ST, 283 COMMERCE ST	049-090-430, 049-190-150, 049-190-140	Meehleis Modular Buildings, Inc.	c. 1975	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
12	N/A	5750 E PINE ST, 5890 E PINE ST	049-090-260, 049-090-120	Lodi Memorial Park and Cemetery	1951	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
13	N/A	1560 E PINE ST	049-090-130	Pride Landscape	c. 1908	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
14	N/A	5990 E SARGENT RD	049-310-050	N/A	1928	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
15	N/A	6195 E SARGENT RD	049-111-020	N/A	1970	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
16	N/A	6058 E PINE ST	049-111-010	N/A	c. 1908-1940	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
17	N/A	6250 E PINE ST	049-111-030	N/A	1928	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
18	N/A	16463 N CURRY AVE	049-112-010	N/A	c. 1942-1957	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
19	N/A	16141 N CURRY AVE	049-112-020	N/A	1921	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
20	N/A	15661 N CURRY AVE	049-230-010	N/A	1920	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
21	N/A	15505 N CURRY AVE	049-230-060	N/A	1928	Eligible for the CRHR under Criteria 1 and 3 for illustrating early-twentieth century agricultural settlement in Lodi and as a good, intact representation of a 1920s rural residential property with a Craftsman-style residence, tank house, and garage.	Modern-age industrial buildings are viewable from North Curry Avenue. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criteria 1 and 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements over 350 feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	

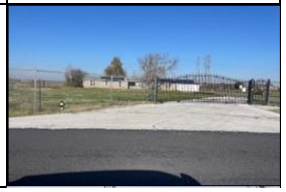
Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
22	N/A	15415 N CURRY AVE	049-230-080	N/A	1969	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
23	N/A	15403 N CURRY AVE	049-230-070	N/A	1900	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
24	N/A	6021 E KETTLEMAN LN, 5950 E KETTLEMAN LN, 5990 E KETTLEMAN LN	049-230-110, 061-030-150, 061-050-120, 061-030-540	Delta Packing Company	c. 1948-1968	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
25	N/A	15277 N CURRY AVE	049-230-100	N/A	1906	Eligible for the CRHR under Criterion 3 as a representative example of rural Queen Anne-style residence within San Joaquin County.	Modern-age industrial buildings are viewable from N Curry Avenue. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criterion 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements 480 or more feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
26	N/A	6050 E KETTLEMAN LN, 6044 E KETTLEMAN LN, 6030 E KETTLEMAN LN	061-050-140, 061-050-130	N/A	c. 1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
27	N/A	6042 E KETTLEMAN LN	061-050-050, 061-050-040	N/A	c. 1957	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
28	N/A	6312 E KETTLEMAN LN	061-050-090	N/A	1917	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
29	N/A	14541 N CURRY AVE, 14501 CURRY AVE	061-131-020, 061-131-010	N/A	1959	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
30	N/A	7106 E KETTLEMAN LN	061-132-110	N/A	1900	Eligible for the CRHR under Criterion 3 for embodying a Folk Victorian-style residence.	Modern-age residential buildings are viewable from Vintage Road and E Kettleman Lane. Therefore, integrity of setting has already been diminished. The Project will not impact the aspects of integrity that convey this resource's significance under Criterion 3. The new transmission line will not impact the property's integrity of location, design, setting, materials, workmanship, feeling, and association. The installation of Project elements 1,150 or more feet from the resource will not modify its historic appearance or character or alter any of its character-defining features. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
31	N/A	14453 N VINTAGE RD	061-132-420	N/A	1960	Not eligible for CRHR.	Not a historical resource for the purposes of CEQA.	
32	N/A	7150 E KETTLEMAN LN	061-133-010	N/A	1936	Eligible for the CRHR under Criterion 1 and 3 for illustrating early-twentieth century agricultural settlement in Lodi and as a good, intact representation of a 1930s rural residential property with a Craftsman-style residence, tank house, and garage.	The building cluster associated with this property, consisting of a Craftsman-style residence, tank house, and garage, is setback approximately 1,100 feet from the proposed Project improvements and already has limited visibility of proposed improvements due to location and foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criteria 1 and 3. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
33	N/A	14496 N VINTAGE RD	061-133-050	N/A	1911	Not eligible for CRHR based on field survey.	Not a historical resource for the purposes of CEQA.	
34	N/A	7280 E KETTLEMAN LN	061-133-020	N/A	1901	Eligible for the CRHR under Criterion 3 as an excellent representation of Craftsman-style residence in rural San Joaquin County.	The Craftsman-style residence at this property is setback approximately 1,100 feet from the proposed Project improvements. Views of the proposed improvements will be limited due the setback and existing foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 3. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
35	N/A	7362 E KETTLEMAN LN	061-133-030	N/A	1910	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
36	N/A	7452 E KETTLEMAN LN	061-133-040	N/A	1915	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
37	N/A	7540 E KETTLEMAN LN	061-133-270	N/A	1958	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
38	N/A	14537 N ALPINE RD	061-133-190	J & M Farms	1935	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
39	N/A	14415 N ALPINE RD	061-133-310	N/A	1918	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
40	N/A	14300 N ALIPNE RD	063-070-600	N/A	1965	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
41	N/A	14170 N ALPINE RD	063-070-500	N/A	1906	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
42	N/A	14090 N ALPINE RD	063-070-620	N/A	1920	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
43	N/A	14413 N LOCUST TREE RD	063-150-510	N/A	1959	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
44	N/A	N/A	N/A	South Pipeline	c. 1961-1968	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
45	N/A	14117 N LOCUST TREE RD	063-150-350	N/A	1918	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
46	N/A	13987 N LOCUST TREE RD	063-150-330	N/A	1938	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
47	N/A	13915 N LOCUST TREE RD	063-150-460	N/A	c. 1945	Eligible for the CRHR under Criterion 3 for embodying a Mediterranean-style residence in a rural context.	Modern-age buildings are viewable from North Locust Tree Road. Therefore, integrity of setting has already been diminished. This resource is located approximately 750 feet from the proposed Project improvements. Views of the proposed improvements will be limited due the setback and existing foliage. As a result, the Project improvements will not impact its integrity of location, design, setting, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 3. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
48	N/A	13972 N LOCUST TREE RD	063-150-520	N/A	1954	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
49	N/A	14262 N LOCUST TREE RD	063-150-170	N/A	1970	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
50	N/A	14345 N STATE ROUTE 88, 14213 N STATE ROUTE 88, 14211 N STATE ROUTE 88	063-160-170, 063-160-150, 063-160-140	N/A	1919, 1941	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
51	N/A	11425 E HARNEY LN, 14454 N STATE ROUTE 88	063-160-370, 063-160-340	Bear Creek (Levee)	c. 1963-1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
52	N/A	12401 E KETTLEMAN LN	051-260-190	N/A	c. 1942	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
53	N/A	12021 E HARNEY LN	063-250-160	N/A	c. 1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
54	N/A	12651 E KETTLEMAN LN, 12861 E KETTLEMAN LN	051-260-230, 051-260-220	PG&E Lockeford Substation	1948	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
55	N/A	N/A	N/A	Paddy Creek (Levee)	c. 1963-1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
56	N/A	13310 E KETTLEMAN LN	063-250-320	N/A	c.1908-1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
57	N/A	12971 E KETTLEMAN LN	051-260-130	N/A	1958	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
58	N/A	13137 E KETTLEMAN LN	051-260-110	N/A	1948	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
59	N/A	15703 N JACK TONE RD	051-260-060	Baker Brothers Ranch	c. 1954-1967	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
60	N/A	15289 N JACK TONE RD, 15153 N JACK TONE RD	051-260-070, 051-260-080	N/A	1949	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
61	N/A	15510 N JACK TONE RD	053-040-180	N/A	c. 1942-1957	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
62	N/A	N/A	N/A	N/A	N/A	Based on supplemental research following field survey, the construction date for Resource Identifier 62 was identified as 1980, constructed less than 45 years ago; therefore, the subject property has been removed from the survey population.	N/A	N/A
63	N/A	13701 E KETTLEMAN LN	053-040-240	N/A	1975	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Resource ID	Resource Number(s)	Address	APN(s)	Property Name (if applicable)	Year Built	Eligibility Recommendation	Effects	Photo
64	N/A	13749 E KETTLEMAN LN	053-040-280	Oxford Ranch	1977	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
65	N/A	14239 E KETTLEMAN LN	053-040-420	N/A	c. 1954	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
66	N/A	14433 E KETTLEMAN LN	053-040-200	N/A	1948	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
67	N/A	N/A	N/A	Mokelumne Aqueduct	c. 1942-1947	Eligible for the CRHR under Criterion 1 for its associations with inter-basin water transfer to supply domestic and municipal water to growing urban areas and its role in the development of the East Bay area.	The property is a buried aqueduct segment that has no above-ground features within the API. The installation of Project elements 650 or more feet from the resource will not impact its integrity of location, design, materials, workmanship, feeling, and association, and the property will still convey its significance under Criterion 1. The PG&E Brighton-Bellota 230 kV transmission line already intersects with the aqueduct segment. Therefore, because the setting already is characterized by electrical infrastructure, the Project elements will not diminish its integrity of setting. No physical impacts will occur to the property as part of the Project. Therefore, there is no significant impact.	
68	N/A	N/A	N/A	PG&E Brighton-Bellota 230 kV Transmission Line	1939	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	
69	N/A	N/A	N/A	PG&E Rio Oso-Lockeford 230 kV Transmission Line	c. 1961-1968	Not eligible for the CRHR.	Not a historical resource for the purposes of CEQA.	

Appendix D
Department of Parks and Recreation 523 Series Forms

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 300 South Beckman Road (Resource ID 01)
P1. Other Identifier: Westlake Chemical/NAPCO Pipe & Fittings
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi North Date 1978 T 3N; R 7E; NW 1/4 of Sec 7; MD B.M.
c. Address 300 South Beckman Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653001 mE/ 4221672 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-310-060

*P3a. Description:

The property at 300 South Beckman Road is a chemical plant and processing factory consisting of a cement tilt-up warehouse, corrugated metal industrial facility, and metal silos. The property is set in an industrial section of Lodi adjacent to the Central California Traction Railroad (CCTR), which serves the facility. The warehouse has a rectangular footprint, flat roof, eight garage bays, and a small one-story office extension at the north façade with blue metal siding and large rectangular windows. The industrial facility has an irregular footprint with one triple-height section and a double-height section at the façade with one garage bay. There appears to be a loading bay at the western elevation. Siding is corrugated metal with piping and industrial fans. A plain, unglazed door provides access to the east of the garage bay. There are approximately twelve concrete silos of various heights to the west of the warehouse and industrial facility, facing the CCTR tracks. The property is located within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1968 (Parcelquest.com 2022)

*P7. Owner and Address:
North American Specialty Products
2801 Post Oak Blvd
Houston, TX 77056

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 300 South Beckman Road (Resource ID 01) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: Westlake Chemical/NAPCO Pipe & Fittings
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** Factory constructed in 1968 (Parcelquest.com 2022); aerial photographs indicate new roofing materials and siding were applied by 1993, and new windows, garage bays, additional silos and unglazed entry doors appear to be replacements (NETROnline 2023).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Industry **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 300 South Beckman Road does not appear to meet the criteria for listing in the California Register of Historical Resources (CRHR), nor does it appear to be an historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not retain integrity and does not meet any of the significance criteria necessary for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 300 South Beckman Road is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

300 South Beckman Road

The property at 300 South Beckman Road is currently owned by North American Specialty Products, an LLC headquartered in Houston, Texas. Their controlling company, Westlake Chemical Corporation, operates the factory at 300 South Beckman Road. The factory produces PVC pipe products. The previous owner, CertainTeed, which was owned by Saint-Gobain, sold the business to Westlake in 2013. It appears Saint-Gobain were the original owners of the factory (saint-gobain.com 2013; parcelquest.com 2022).

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no direct associations with events or trends important to history. The property produces PVC piping. Its construction in the late 1960s reflects PVC's expanding use in post-World War II America. However, research did not reveal that the property played an important role in the development or manufacture of PVC or any broader trends in the PVC industry. Research also did now show that the business has played a pivotal role in the growth and development of Lodi or in spurring Lodi's overall industrial development. Lodi was founded in 1869, almost a century prior to the factory, and other industrial enterprises existed in the town prior to the subject property's construction. Therefore, the property at 300 South Beckman Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The property is currently owned by the Westlake Chemical Corporation, which was founded in Louisiana, and was formerly owned by Saint-Gobain, a French multi-national tracing back to the seventeenth century. Research did not uncover any direct and important associations with any individuals from either company or to PVC manufacturing in general. Therefore, the property at 300 South Beckman Road is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The factory is utilitarian in design and is not demonstrative of any popular architectural style common to commercial or industrial properties during the late 1960s, such as New Formalism or the International Style. Other 1960s factories with a similar appearance and materials exist in Lodi and San Joaquin County. The subject property does not possess high artistic value or represent a design or engineering achievement. Additionally, research did not uncover any direct associations with important designers or engineers. Regardless, the replacement of the roofing material and siding in the early 1990s as well as the undated replacements of new windows, garage bays, additional silos and unglazed entry doors has compromised its integrity of design, materials, and workmanship such that it is no longer able to convey its original appearance. Therefore, the property at 300 South Beckman Road is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. Resources comprising the property at 300 South Beckman Road have not been moved. Therefore, the property's integrity of location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design has been diminished by the installation of replacement roofing, siding, windows, garage bays, additional silos and unglazed entry doors.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the CCTR alignment and agricultural land. Although these uses still remain, the industrial and residential population of the surrounding area has greatly increased, which has diminished the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. As mentioned, many of the original materials of the property have been replaced through subsequent renovations and improvements. Therefore, the integrity of materials has been compromised.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. As mentioned, the property has been altered since it was originally constructed through the installation of replacement materials as well as renovations, which has compromised the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its industrial character, despite alterations. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of a industrial factory constructed in the late 1960s. It would be recognizable to persons from the past conveys its integrity of association.

In conclusion, the property at 300 South Beckman Road does not possess the significance or integrity necessary for listing in the CRHR. Therefore, the property is not considered a historical resource for the purposes of CEQA.

B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

Saint Gobain. 2013. Accessed January 9, 2023. https://www.saint-gobain.com/sites/saint-gobain.com/files/CP_PVC_AN.pdf

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

P5. Photographs (continued)



Resource 01, view southwest (Jacobs 2022).



Resource 01 (in background), view southwest (Jacobs 2022).

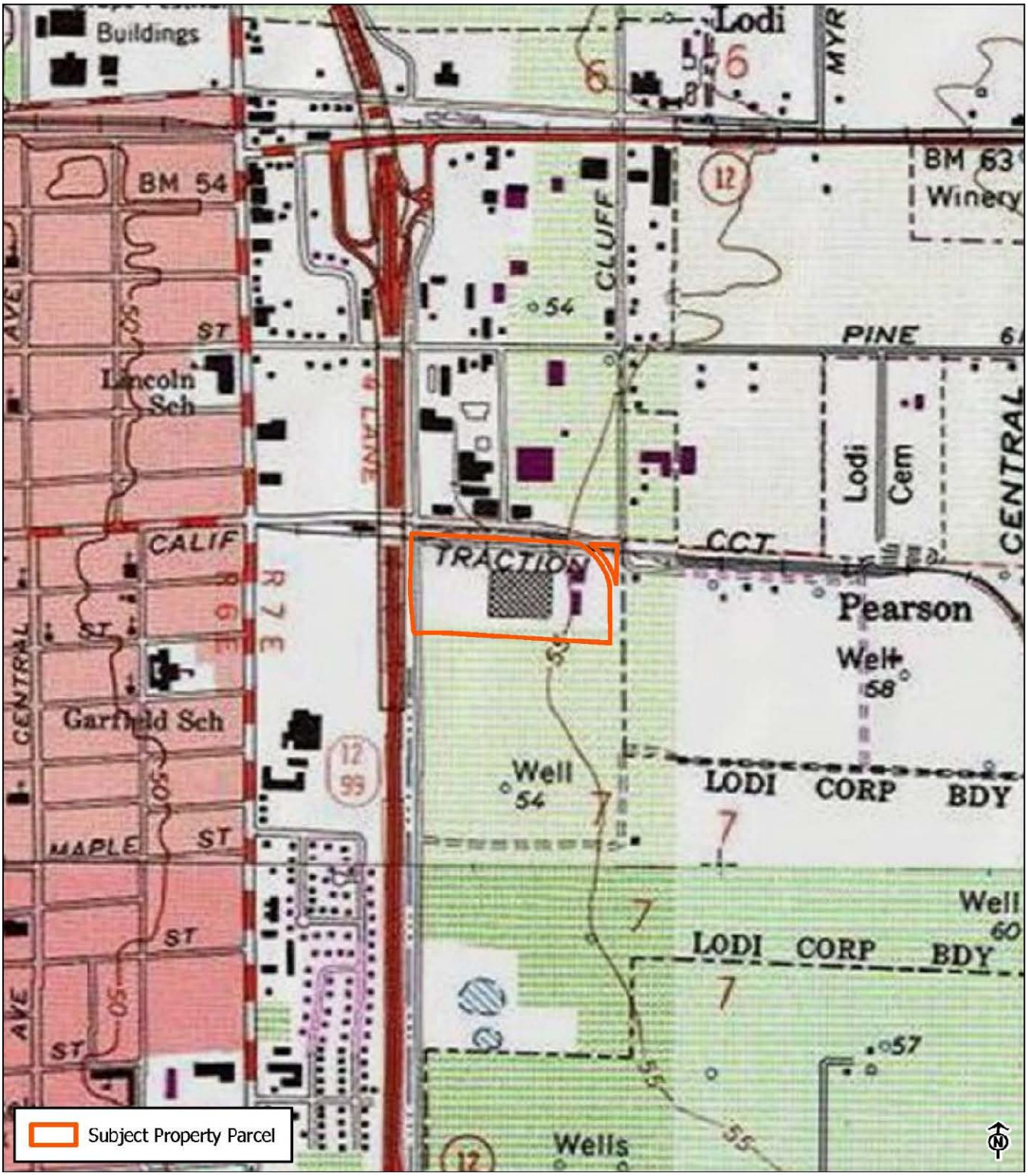
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 300 South Beckman Road (Resource ID 01)

*Map Name: Lodi North 1978 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-39-004457 (UPDATE)
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) P-39-004457 (Resource ID 02) UPDATE
P1. Other Identifier: Central California Traction Railroad
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi North Date 1978 T 3N; R 7E; NW 1/4 of Sec 7; MD B.M.
c. Address N/A Lodi Zip 95240
d. UTM:
Seg. 1: Northern Terminus: Zone 10S, 653955 mE/ 4222172 mN, Southern Terminus: Zone 10S, 654054 mE/ 4219322 mN
Seg. 2: Eastern Terminus: Zone 10S, 653984 mE/ 4221579 mN, Western Terminus: 10S, 653051 mE/ 4221737 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-310-020

*P3a. Description:
This form records and evaluates two segments of the Central California Traction Railroad (CCTR) within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project within and east of the City of Lodi in San Joaquin County. Segment 1 extends north-south and is a 2-mile-long segment of the larger Central Valley Branch mainline that runs between Stockton and Lodi. Segment 2 extends east-west and is a 0.63-mile-long segment of a larger, 1-mile-long industrial lead that branches off the west side of Segment 2 at Lodi Junction to connect to businesses in Lodi. The segments feature steel tracks set in standard gauge with wooden ties, gravel ballast, and steel rivets. Segment 2 is set within an industrial portion of Lodi. The surroundings of Segment 1 are characterized as rural/residential with industrial development west of the north end of the segment.

*P3b. Resource Attributes: (List attributes and codes) HP 11. Engineering Structure
*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) Segment 1, view northeast near Lodi Junction, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1907 (Parcelquest.com 2022)

*P7. Owner and Address:
Central California Traction Company
920 Southeast Quincy Street
Topeka, KS 66612

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency Primary # P-39-004457 (UPDATE)
DEPARTMENT OF PARKS AND RECREATION HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) P-39-004457 (Resource ID 02) UPDATE ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: CCTR
B2. Common Name: CCTR
B3. Original Use: Passenger and freight railroad
B4. Present Use: Freight railroad
***B5. Architectural Style:** N/A

***B6. Construction History:** Segments 1 and 2 were constructed in 1907 as electric interurban rail lines with passenger service. All electrical implements, including overhead electric wires and the electrified third rail, were removed by 1947 (*Lodi News Sentinel* 1947a). Segment 1 ceased passenger service in the 1930s and was then used solely for freight (OAC 2020). As originally constructed, Segment 2 extended further west, terminating at the Lodi Rail Depot. The depot and the track to the west of the current Segment 2 were abandoned in the late 1940s, with the petition for abandonment in November 1947. After that point, Segment 2 operated as a freight line serving businesses in Lodi (*Lodi News Sentinel* 1947b). The segments have been continuously maintained and repaired as needed over its lifetime, so ties, rails, and other railroad components are likely to have been repaired or replaced.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Transportation and Industrial Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Railroad
Applicable Criteria N/A

Segments 1 and 2 do not appear to meet the criteria for listing in the California Register of Historical Resources (CRHR), and therefore do not appear to be historical resources for purposes of the California Environmental Quality Act (CEQA). The segments do not meet any of the significance criteria necessary for eligibility for listing in the CRHR. The y have been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The CCTR is located within and to the east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

Central California Traction Railroad

The CCTR is currently owned by the Central California Traction Railroad Company, which is a subsidiary of the Union Pacific and Burlington Northern Santa Fe Railroads. The line was constructed between Stockton and Lodi in 1907 and between Lodi and Sacramento in 1910. Segments 1 and 2 were built in 1907 and originally used as an electric interurban passenger rail line. "Traction" referred to the workings of the overhead electric wires and electrified third rail which helped propel cars. Segment 1 operated passenger service every half hour during peak usage, but interurban passenger service was abandoned in the 1930s. All electrical infrastructure including overhead wires and third rails were removed in 1947. As originally constructed, Segment 2 extended further west, terminating at the Lodi Rail Depot. However, the depot and the track to the west of the current Segment 2 were abandoned in the late 1940s. After that point, Segment 2 operated as a freight line serving businesses in Lodi (Abandonedrails.com 2023).

Segments of the CCTR have been previously recorded in San Joaquin County, all of which were determined not eligible for listing in the National Register of Historic Places. Segments 1 and 2 within the APl are previously unrecorded and unevaluated and is recommended not eligible for the CRHR. They are evaluated below.

Evaluation

Under CRHR Criterion 1, Segments 1 and 2 have no associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The segments are associated with the expansion of rail infrastructure in the San Joaquin Valley during the early twentieth century, however, they are not an early or important example of this infrastructure. The San Joaquin Valley was already an established rail corridor by the time Segments 1 and 2 were built in 1907, the SPRR having been built through the area in 1869. Additionally, while the CCTR electric interurban rail service was an important transit development within Lodi, Stockton, and Sacramento, it was not the first interurban network within the San Joaquin Valley or California. For example, the Northern Electric Railway in Sacramento predates the CCTR. Further, research does not show that the Segments 1 and 2 made significant contributions to the Lodi's settlement or patterns of development. Lodi was founded in 1869, nearly four decades prior to their construction, and development already existed in the area. Therefore, Segments 1 and 2 are not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, Segments 1 and 2 are not significant for any associations with the lives of persons important to history. They do not have a direct association with any important persons from Lodi, the CCTR, or any businesses shipping freight on the line. Therefore, Segments 1 and 2 are not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, Segments 1 and 2 do not embody the distinctive characteristics of a type, period, or method of construction or represent the work of a master. They are typical rail segments and have no significant engineering, architectural, or artistic features. Any evidence of the engineering from its electric interurban use has been removed, leaving a standard gauge diesel railroad meant for heavy freight. Further, research did not indicate that they overcame a design or engineering challenge. Therefore, Segments 1 and 2 are not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, Segments 1 and 2 are not significant for their research potential. They do not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore are not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The segments have not been moved since they were built and therefore retain integrity of location.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the CCTR has been modified from its original design through the removal overhead wires and electric third rail in 1947. Therefore, Segments 1 and 2 are unrecognizable as an electric interurban passenger line. However, the segments were used for moving freight during the historic-era, and maintain their designs as a diesel freight railroad from this period. Therefore, Segments 1 and 2 retain integrity of design.

Setting is the physical environment of a historic property. The segments remains characterized by industrial and agricultural surroundings, and therefore retain integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The segments do not retain integrity of materials from their period of construction and use as an electric interurban rail lines as materials reflecting this use, such as an electric third rail and overheard wires, have been removed. However, they retain the materials related to their historic-era use as diesel freight lines. They have been regularly maintained and upgrades appear to be in-kind. Therefore, Segments 1 and 2 retain integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the segments remains intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Segments 1 and 2 retain their original form in their original settings and are able to convey their historic character and appearance. As a result, they retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property retains integrity of association as an active freight line serving industrial properties.

In conclusion, although they retain integrity, Segments 1 and 2 do not meet any of the CRHR criteria. Therefore, the segments are not considered historical resources for the purposes of CEQA.

B12. References (continued)

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

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P5. Photographs (continued)



South end of Segment 1, view north (Jacobs 2022).



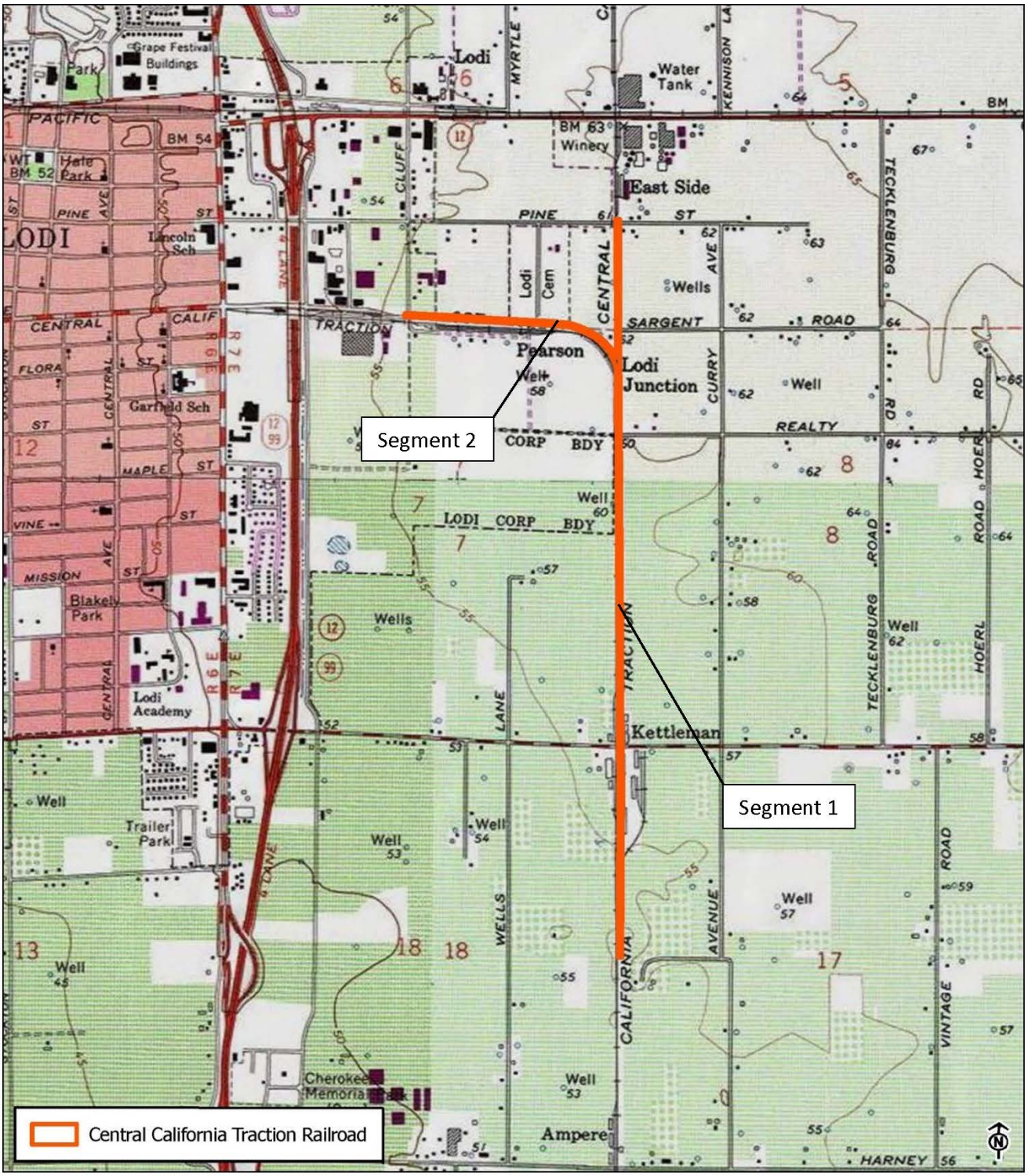
Segment 1 crossing East Kettleman Lane, view west (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary # P-39-004457 (UPDATE)
HRI #
Trinomial

 ***Resource Name or #** (Assigned by recorder) P-39-004457 (Resource ID 02) UPDATE

***Map Name:** Lodi North 1978 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



*Recorded By: D. Garvey, Far Western Anthropological Research Group, Inc. *Date: 5/9/2021

This update documents an approximately 200-meter section of the Central California Traction Railroad (CCTRR) in the city of Lodi, located between Sargent Road and Lodi Junction. The segment is approximately one kilometer due south of Highway 12. The CCTRR was first recorded in 2003 by Larson and Johnson, who documented the short 100-foot section of railroad in the Caltrans right-of-way across Highway 12, just north of the present project area. Three additional segments of the railroad have since been recorded in Stockton (by Martinez in 2008, Morris in 2010, and Pappas and Tippett in 2011). The segment recorded herein has not been evaluated for listing in the National Register of Historic Places.

This segment was visited during survey for the PG&E Northern San Joaquin 230 kV Transmission Project. Travelling north-south through the eastern half of Lodi, the railroad consists of a single track on a low gravel berm. The line still operates between Lodi and Stockton, including the spur at Lodi Junction which turns ninety degrees toward eastern Lodi. As noted at other previously recorded segments, the original rails and ties have been replaced.

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Folder: 2778 Lodi pics File: P5090045
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, outside of project area.
(View: west)



Folder: 2778 Lodi pics File: P5090046
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, outside of project area.
(View: southwest)



Folder: 2778 Lodi pics File: P5090045
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, outside of project area.
(View: west)



Folder: 2778 Lodi pics File: P5090046
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, outside of project area.
(View: southwest)



Folder: 2778 Lodi pics File: P5090051
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, at intersection with project area. (View: north)



Folder: 2778 Lodi pics File: P5090052
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, at intersection with project area. (View: south)



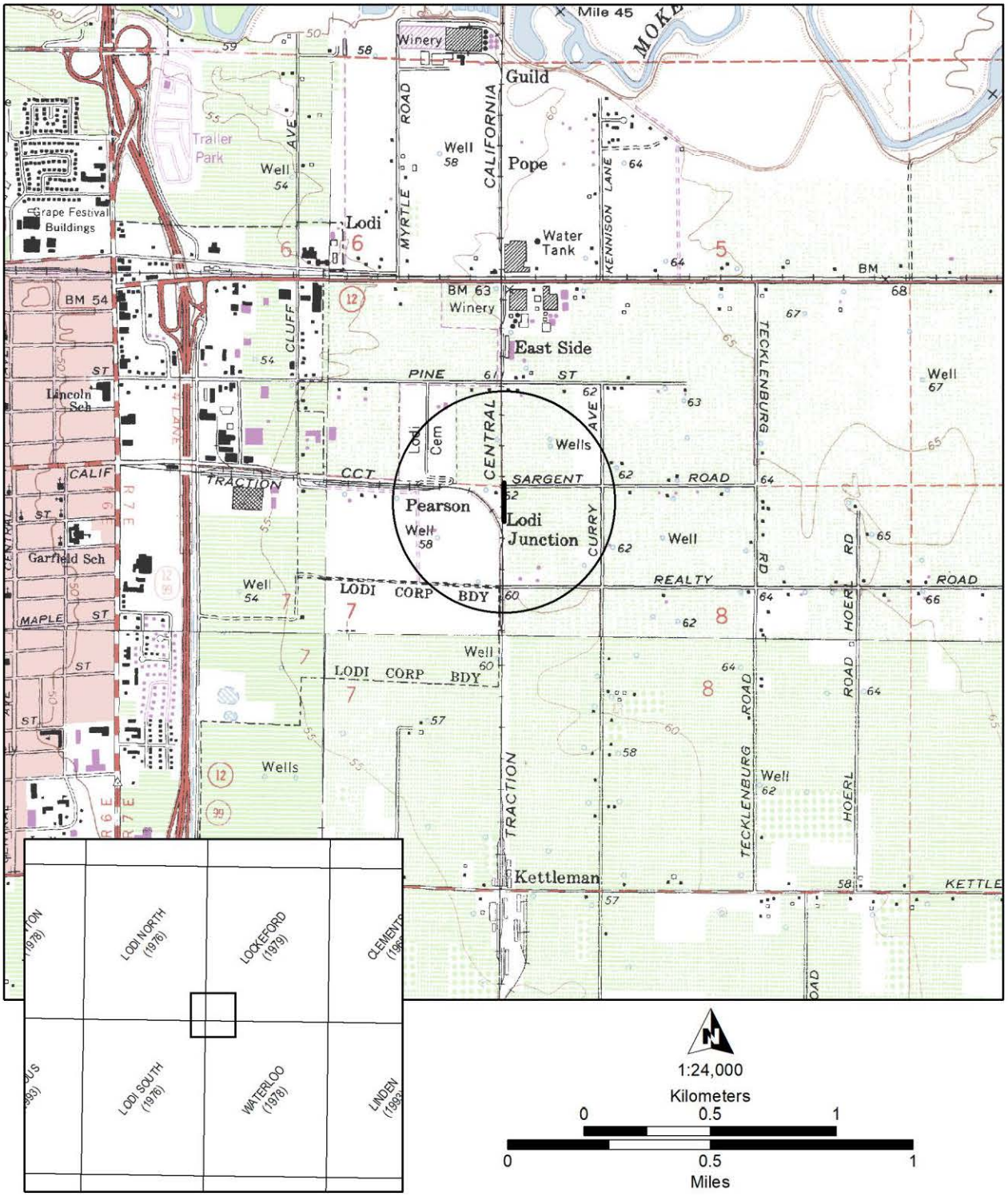
Folder: 2778 Lodi pics File: P5090053
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, at intersection with project area. (View: northwest)



Folder: 2778 Lodi pics File: P5090054
Plan view of linear resource Central California Traction Railroad, CA-SJO-294H, at intersection with project area. (View: plan)



Folder: 2778 Lodi pics File: P5090057
Overview of linear resource Central California Traction Railroad, CA-SJO-294H, outside of project area.
(View: west)



chelsea 7/22/2021 11:17:46 AM

Privileged and Confidential – Attorney/Client Communication

Resource Detail: P-39-004457

Identifying information

Primary No.: P-39-004457
Trinomial: CA-SJO-000294H
Name: Central California Traction Company Railroad
Other IDs:

Type	*Name*
Other	Central CA Traction Railroad J-11
Resource Name	Central California Traction Company Railroad
Other	Central California Traction Railroad

Cross-refs:

Attributes

Resource type: Structure
Age: Historic
Information base: Survey
Attribute codes: AH07 (Roads/trails/railroad grades) - Railroad; HP11 (Engineering structure) - engineering structure
Disclosure: Not for publication
Collections: No
Accession no(s):
Facility:

General notes

ADOE 6Y2

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
11/11/2011	Pappas & Westwood	By ECORP, for Cardno ENTRIX	
2/28/2003	B. Larson, E. Johnson	JRP Historical Consulting Services	
8/8/2008	Jesse Martinez	PBS & J	
4/5/2010	Peter J. Morris	PARUS Consulting, Inc.	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
AP-05501	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume III: Geoarchaeological Study.	Far Western Anthropological Research Group, Inc., et al
CA-05498	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume I: Summary of Methods and Findings.	Far Western Anthropological Research Group, Inc., et al
SJ-05498	2004	Cultural Resource Inventory of Caltrans District 10 Rural Conventional Highways; Volume I: Summary of Methods and Findings	Far Western Anthropological Research Group, Inc.
SJ-05501	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume III: Geoarchaeological Study	Far Western Anthropological Research Group, Inc.
SJ-05503	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume II F: San Joaquin County.	Far Western Anthropological Research Group, Inc., et al
SJ-06702	2008	Cultural Resources Sue Diligence Analysis of the Weber Property near Stockotn, San Joaquin County, California	LSA Associates, Inc.
SJ-07048	2008	Cultural Resources Survey and Subsurface Testing Report: Altamont Communter Express Maintenance Facility Projecet West of West Lane, Stockton, California	PBS&J
SJ-07220	2010	An Archaeological Survey for the Department of Water Resources Geotechnical Levee Investigation of Bear Creek Wing Levee, Brookside, Mosher Diversion Canal, Mosher	PARUS Consulting, Inc.

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Resource Detail: P-39-004457

		Slough, Pixley Slough, Shima Tract, and Upper Calaveras River	
SJ-07539	2011	Cultural Resources Inventory Report, Stockton "A" Reconductoring Project, San Joaquin County, California; ECORP Project No. 2011-123	ECORP Consulting & Cardno ENTRIX
SJ-07598	2012	Cultural Resources Constraints Study of the Stockton A Weber #1 Wood Pole Replacement Project, San Joaquin County, California, PG&E No. 30764919	Parus Consulting

Location information

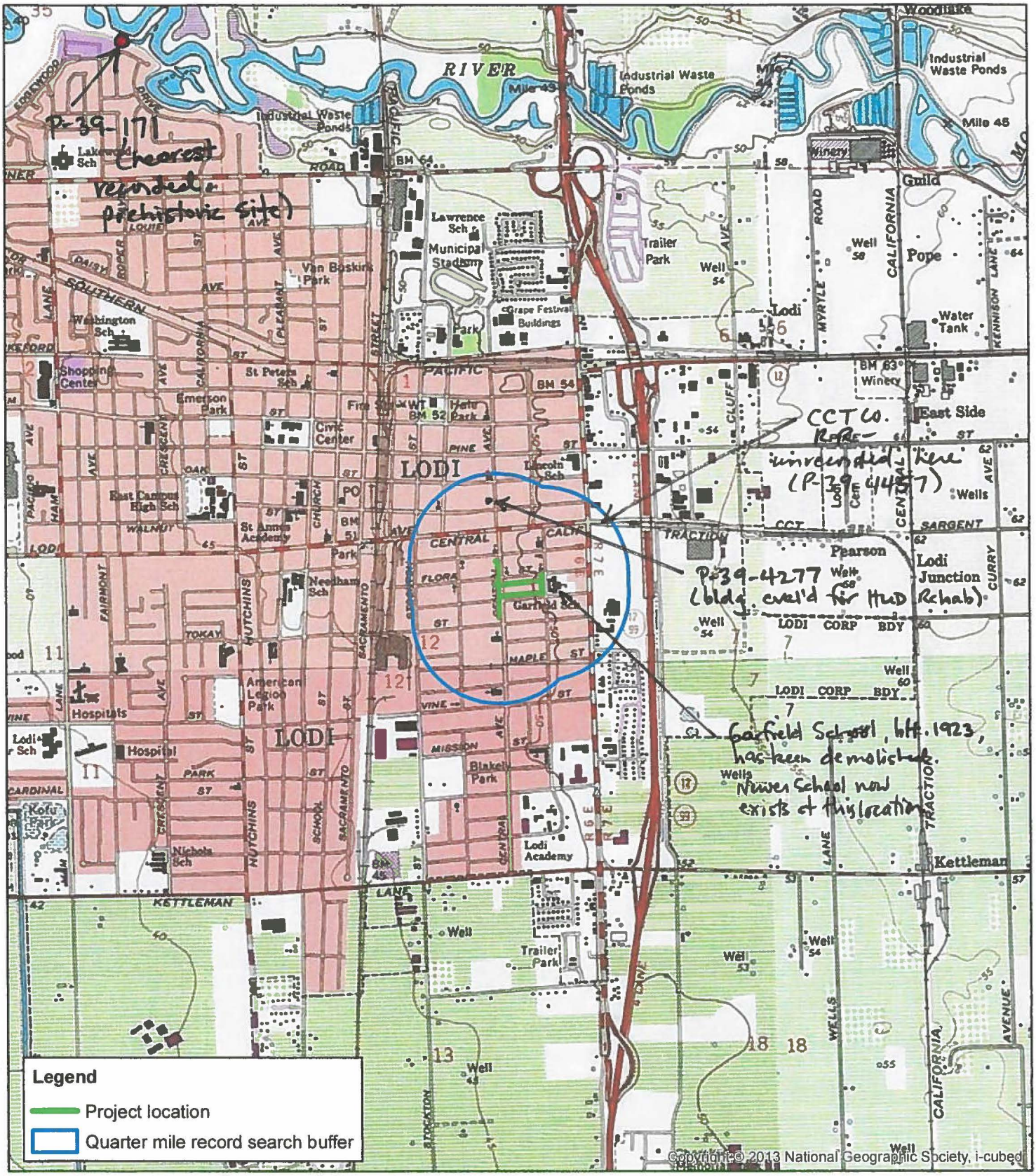
County: San Joaquin
USGS quad(s): Lockeford, Stockton West, Waterloo
Address:
PLSS: T1N R6E Sec. MDBM
T1S R6E Sec. MDBM
T3N R7E NW¼ of SW¼ of Sec. 5 MDBM
UTMs: Zone 10 654045mE 4222590mN NAD27
Zone 10 654060mE 4222111mN NAD27
Zone 10 650393mE 4205296mN NAD27
Zone 10 650666mE 4204602mN NAD27
Zone 10 654134mE 4216075mN NAD27
Zone 10 654169mE 4214774mN NAD27

Management status

Database record metadata

	Date	*User*	
Entered:	5/9/2011	jay	
Last modified:	10/16/201	Anthro	
IC actions:	*Date*	*User*	*Action taken*
	5/9/2011	jay	Appended records from old OHP database.
	10/16/201	Anthro	edit by RH
Record status:			

Privileged and Confidential – Attorney/Client Communication





USGS 7.5' Quad:
Lodi North (1972)

Legal Description:
T3N, R6E Section 12

CCIC # 9127L
Resource Locations
P-39-#

Scale 1:24,000
1 Inch = 2,000 Feet

Record Search Map
Gas Main Central Ave. & Eden St., Lodi, San Joaquin County

0 1,000 2,000 Feet
0 500 1,000 Meters

N

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CCIC Resource Detail: P-39-004457

Identifying Information

Primary No.: P-39-004457
HRI No.:
Trinomial: CA-SJO-294H
Name: Central CA Traction Railroad J-11
Other IDs: Other:
Disclosure: Not for publication

Attributes

Resource Type: ☐ Building ☑ Structure ☐ Object ☑ Sit ☐ District ☐ Element of District ☐ Other
Age: ☐ Prehistoric ☐ Protohistoric ☑ Historic ☐ Unknown
Information Base: ☑ Surface survey ☐ Surface collection ☐ Testing ☐ Excavation ☐ Analysis
Collections: No

Attribute Codes:		
AH07	Roads/trails/railroad grades	Railroad
HP11	Engineering structure	engineering structure

Recording Events

Date	*Recorder(s)*	*Affiliation*	*Notes*
11/11/2011	Pappas & Westwood	ECORO, Cardno ENTRIX	
2/28/2003	B. Larson, E. Johnson	JRP Historical Consulting Services	
8/8/2008	Jesse Martinez	JRP Historical Consulting Services	
4/5/2010	Peter J. Morris	PARUS Consulting, Inc.	

Associated Documents

Report No.	*Year*	*Title*
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CA-05498	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume I: Summary of Methods and Findings.
SJ-05498	2004	Cultural Resource Inventory of Caltrans District 10 Rural Conventional Highways; Volume I: Summary of Methods and Findings
SJ-05501	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume III: Geoarchaeological Study
SJ-05503	2004	Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways; Volume II F: San Joaquin County.
SJ-06702	2008	Cultural Resources Sue Diligence Analysis of the Weber Property near Stockotn, San Joaquin County, California
SJ-07048	2008	Cultural Resources Survey and Subsurface Testing Report: Altamont Communter Express Maintenance Facility Projecet West of West Lane, Stockton, California
SJ-07220	2010	An Archaeological Survey for the Department of Water Resources Geotechnical Levee Investigation of Bear Creek Wing Levee, Brookside, Mosher Diversion Canal, Mosher Slough, Pixley Slough, Shima Tract, and Upper Calaveras River
SJ-07539	2011	Cultural Resources Inventory Report, Stockton "A" Reconductoring Project, San Joaquin County, California; ECORP Project No. 2011-123
ST-07598	2012	Cultural Resources Constraints Study of the Stockton A Weber #1 Wood Pole Replacement Project, San Joaquin County, California, PG&E No. 30764919

Notes

ADOE 6Y2

Location Info

County: San Joaquin
USGS 7.5' Quads: Stockton West
Lockeford
Waterloo
Address:
PLSS Info: *Township/range* ——— *Section* ——— *BL/M* *or Land Grant*

Privileged and Confidential – Attorney/Client Communication

CCIC Resource Detail: P-39-004457

T	1 N	R	6 E		of	of Sec.		MDBM	Campo Los Franceses
T	1 S	R	6 E		of	of Sec.		MDBM	Campo Los Franceses
T	3 N	R	7 E	NW	of SW	of Sec.	5	MDBM	

UTM Info:	*Datum*	*Zone*	*Easting*	*Northing*	*At point*
	NAD27	10	654134	4216075	
	NAD27	10	654169	4214774	
	NAD27	10	654045	4222590	N end
	NAD27	10	654060	4222111	S end
	NAD27	10	650393	4205296	N
	NAD27	10	650666	4204602	

Cross-references

Management status

Database Record Metadata

	Date	*User*
Entered:	5/9/2011	jay
Last Modified:	3/11/2014	anthro

IC Actions:	*Date*	*User*	*Action taken*
	5/9/2011	jay	Appended records from old OHP database.

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(Parent Record)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # P-39-004457
HRI #
Trinomial CA-SJO-000294H
NRHP Status Code 7
Other Listings
Review Code ____ Reviewer ____ Date ____

*Resource Name or #: Central California Traction Railroad; JJ-11

P1. Other Identifier:

* P2. Location: ☑ Not for Publication ☐ Unrestricted *a. County: San Joaquin

4/2004

* b. USGS Quad: Lockeford (1968; photorevised 1979, photoinspected 1990); T3N R7E, ; MDBM

c. Address: S½ of the NW¼, and NW¼ of the SW¼ S-5

d. UTM: Zone 10; 654045 mE/ 4222590 mN NAD27 at the N end; 654060 mE/ 4222111 mN at the S end.

e. Other Locational Data:

The resource is located on the border between sections 5 and 6 in Township 3 N, Range 7 E.
Highway 12, post mile 18.9, both (north and south) sides, intersects the Highway 12 edge-of-pavement, passes through (partially within) the Caltrans right-of-way.
From the junction of Highways 99 and 12 in Lodi, travel approximately 0.75 miles east on Highway 12 to the railroad crossing.
GPS data were collected for linear feature and north and south edges-of-pavement.

* P3a. Description:

This resource, a segment of the Central California Traction Railroad, was recorded during the Caltrans District 10 Rural Roads Inventory. It is the only segment of the railroad located within the project area for this study, which is limited to the Caltrans right-of-way; and is described in detail on the attached Linear Feature Record.
The Central California Traction (CCT) Company incorporated in 1905 with the goal of building an interurban electric railroad between Sacramento and Stockton. Construction began the following year, and by 1907 the CCT had completed the first leg of the line as between Stockton and Lodi. The segment from Lodi north to Sacramento was completed in 1910.
(See Continuation Sheet)

* P3b. Resource Attributes: HP11. Engineering structure

* P4. Resources Present: ☐ Building ☑ Structure ☐ Object ☑ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photo or Drawing: none

*P5b. Description of Photo:
See Linear Feature Record.

*P6. Date Constructed/Age & Sources:
☑ Historic ☐ Prehistoric ☐ Both
1907-1910

*P7. Owner and Address:
Union Pacific Railroad, Burlington Northern Santa Fe Railroad

*P8. Recorded by:
B. Larson, E. Johnson, JRP Historical Consulting Services, 1490 Drew Ave., Suite 110, Davis, CA 95616

*P9. Date Recorded: 2/28/2003

*P10. Survey Type:
Reconnaissance

* P11. Citation: Leach-Palm, L. et al. 2004. Cultural Resources Inventory of Caltrans District 10 Rural Conventional Highways, Alpine, Amador, Calaveras, Mariposa, Merced, San Joaquin, Stanislaus, and Tuolumne Counties, California.

* Attachments: ☐ None ☑ Location Map ☑ Sketch Map ☑ Continuation Sheet ☐ Building, Structure, and Object Record
☐ Archaeological Record ☐ District Record ☑ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record
☐ Artifact Record ☐ Photograph Record ☐ Other:

*Required Information

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P3a. Description (continued):

CCT was the first electric interurban railroad to run on 1200 volts using an electric third rail. The railroad initially provided both freight and passenger service, but in 1928 the Atchison, Topeka & Santa Fe and Western Pacific railroad companies jointly purchased CCT and soon eliminated the passenger service. In 1946 the CCT line was converted to diesel, resulting in the removal of the electric third rail and all related equipment. The CCT line, currently jointly owned by Union Pacific and Burlington Northern Santa Fe, discontinued use of the Sacramento-Lodi run in 1998, the same year that it initiated freight service to the Port of Stockton using the Lodi-Stockton branch.

References:

Hatoff, Brian. "(Draft) Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project." Woodward-Clyde
Consultants, 1995.

Klitgaard, Otto. "History of the Central California Traction Company," typescript, 1971. On file at the California State Railroad Museum Library.

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LINEAR FEATURE RECORD

Primary # P-39-004457
HRI #
Trinomial CA-SJO-000294H

***Resource Name or #:** Central California Traction Railroad; JJ-11

L1. Historic and/or Common Name: Central California Traction Railroad

L2a. Portion Described: ☐ Entire Resource ☑ Segment ☐ Point Observation **Designation:** JJ-11

L2b. Location of Point or Segment:

Highway 12, post mile 18.9, both (north and south) sides, intersects the edge-of-pavement. The railway passes through the Caltrans right-of-way. From the junction of Highways 99 and 12 in Lodi, travel approximately 0.75 miles east on Highway 12 to the railroad crossing.
GPS data were collected for the railway segment and the north and south edges-of-pavement.

L3. Description:

This segment of the old CCT line crosses Highway 12 at grade, following a north-south alignment. It consists of a single track carried on a very low berm (almost flat) capped with a thin layer of gravel. None of the engineering features within the study area appear to be original: the rails (stamped 1949), ties, and crossing guards are all replacements.

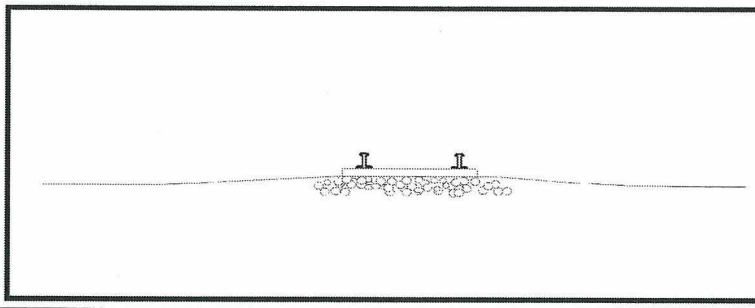
L4. Dimensions:

- **a. Top Width:** 6 feet
- **b. Bottom Width:** n/a
- **c. Height or Depth:** 6 inches
- **d. Length of Segment:** 100 feet

L5. Associated Resources:

Modern crossing guards.

L4e. Sketch of Cross-Section: **Facing:** North

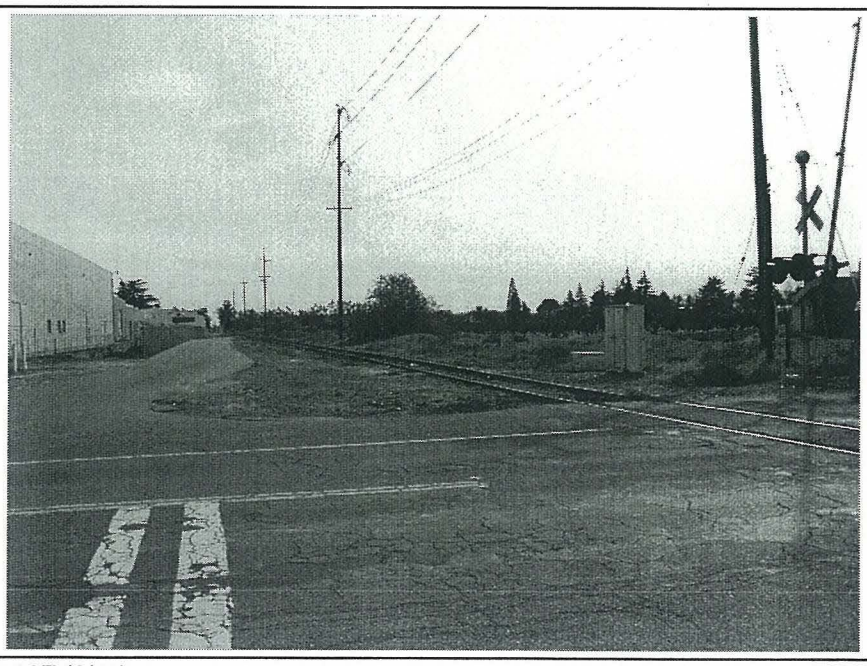


L6. Setting:

Light industrial surroundings with warehouses to the east and northwest. Vineyards are located to the southwest.

L7. Integrity Considerations:

Although the original alignment is intact, the railroad has lost historic integrity following its conversion from electric to diesel, and through the replacement of its original rails and ties.



L8b. Description of Photo, Map, or Drawing

Facing north, Highway 12 visible at center.

L9. Remarks:

L10. Form Prepared By:

B. Larson, E. Johnson, JRP Historical Consulting Services, 1490 Drew Avenue, Suite 110, Davis, CA 95616

L11. Date: 2/28/2003

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DEPARTMENT OF PARKS AND RECREATION

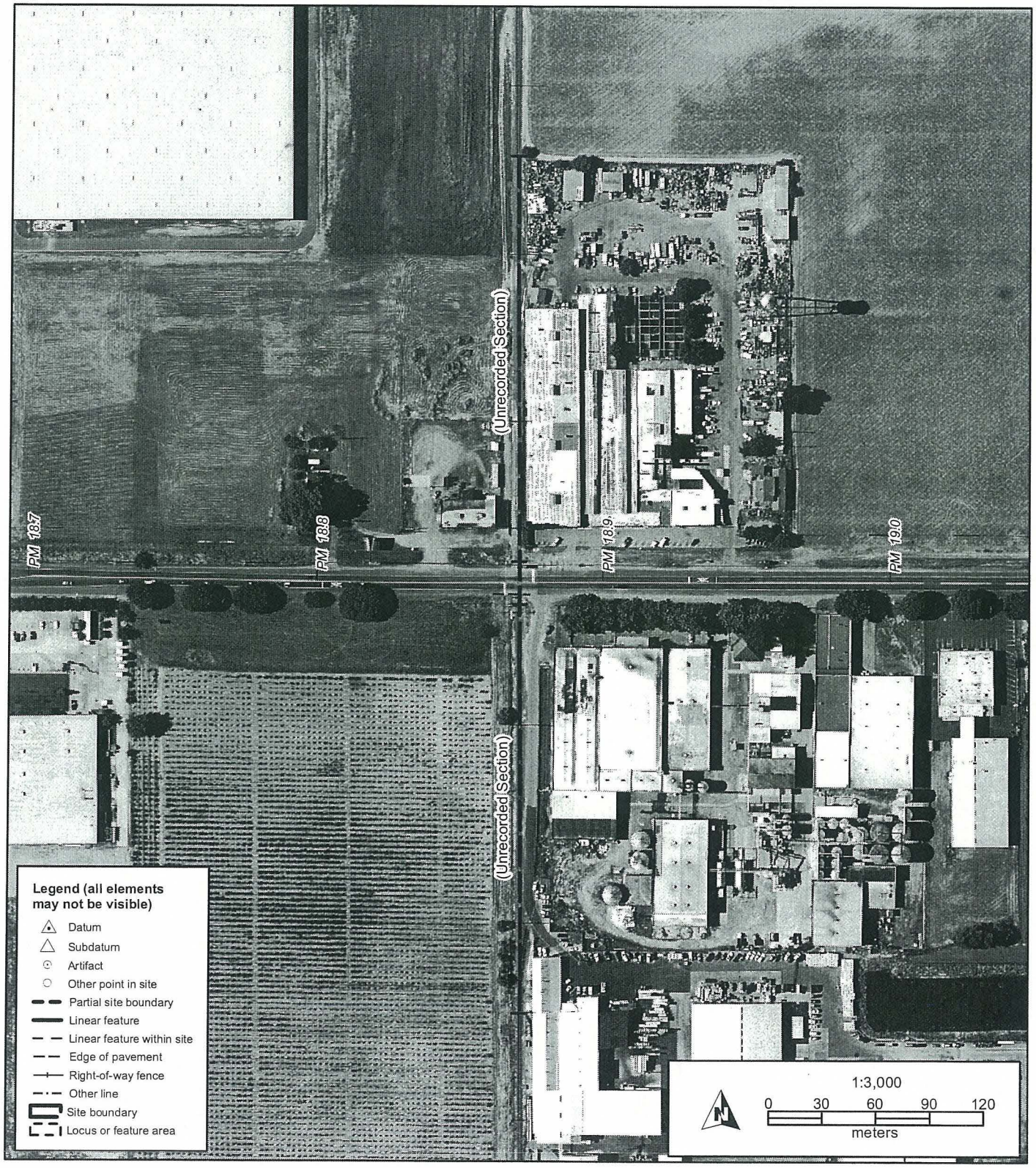
SKETCH MAP

Primary # P-39-004457
HRI #
Trinomial CA-SJO-000294H

*Resource Name or #: Central California Traction Railroad; JJ-11

*Drawn by: J. Collins

*Date: 2/28/2003



DPR523K (1/95)

*Required Information

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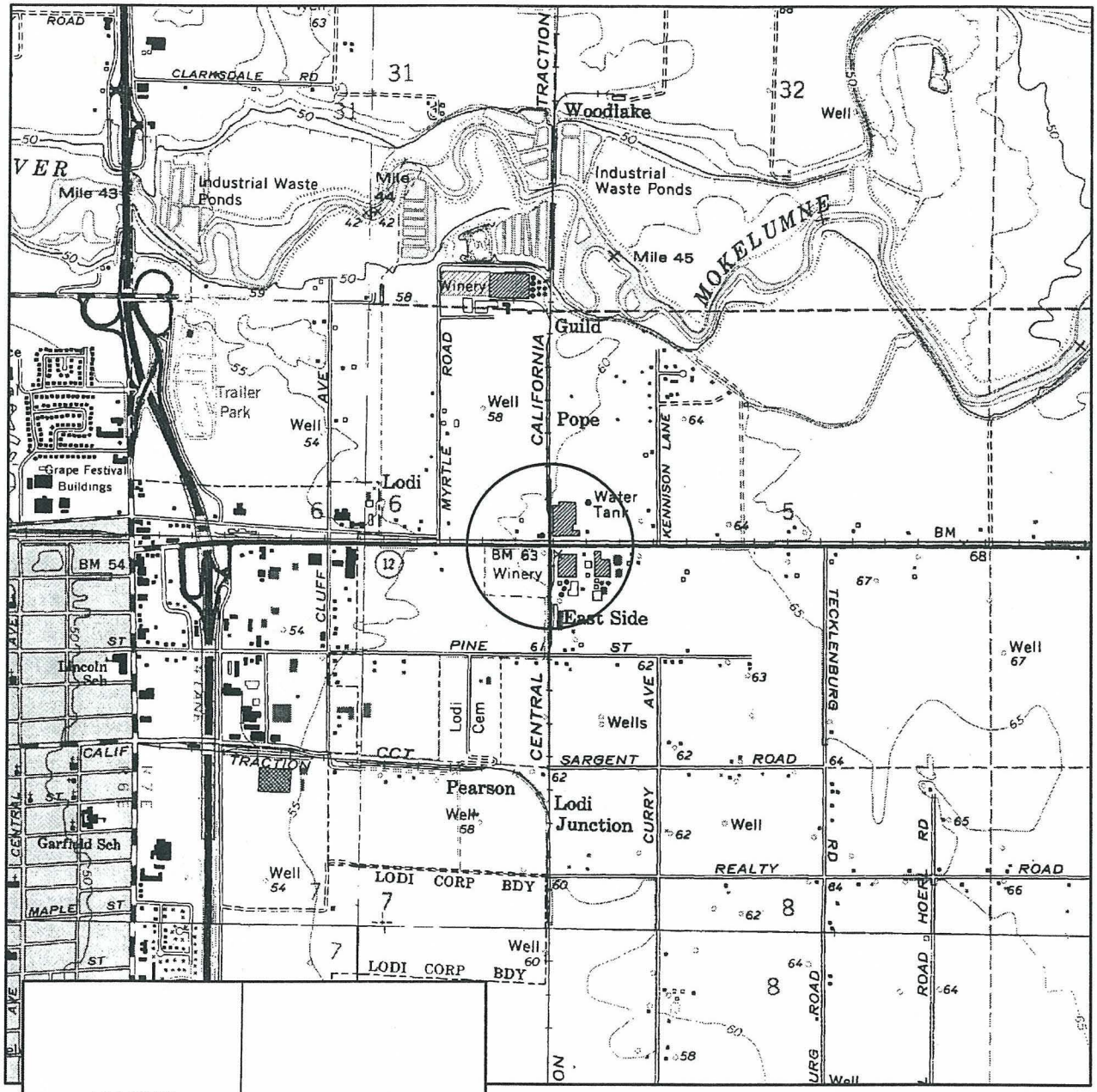
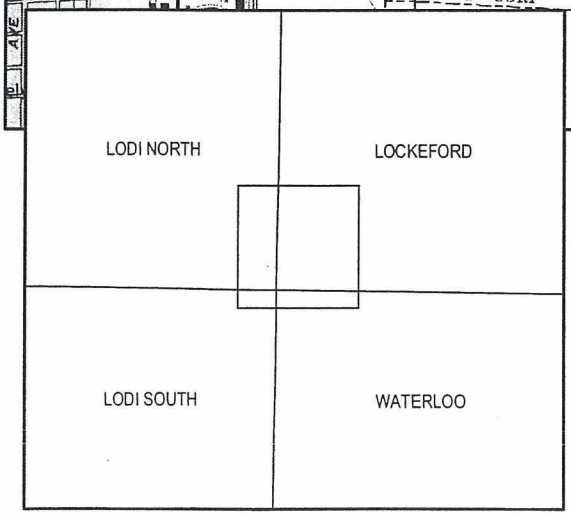
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary # P-39-004457
HRI #
Trinomial CA-SJO-0002944

*Resource Name or #: Central California Traction Railroad; JJ-11 Lockeford 7.5'





Key to USGS 7.5' quads depicted

0 0.5 1 Miles

0 0.5 1 2 Kilometers

SCALE 1:24,000

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*Required Information

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # 39-004457
HRI #
Trinomial CA-SJO-000294H
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

Page 1 of 2 *Resource Name or #: Central California Traction Railroad Update

update 7/10

P1. Other Identifier:

*P2. Location: ■ Not for Publication ☐ Unrestricted
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*a. County: San Joaquin

*b. USGS 7.5' Quad: Waterloo Date: PR 1978 T 3N; R 7E; ¼ of ¼ of Sec ; M.D. B.M.

c. Address: City: Stockton Zip:

d. UTM: Zone: 10; 654134 mE/ 4216075 mN (G.P.S.) North end (at Live Oak Road)
654169 mE/ 4214774 mN South end (at Bear Creek)

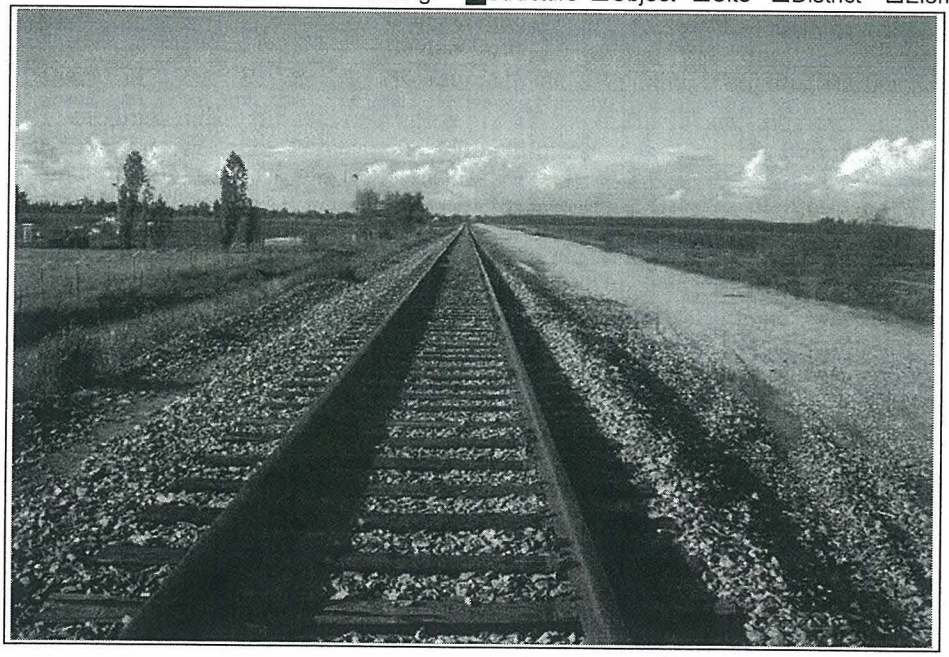
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation: From SR99 North in Stockton take the East 8 Mile Road exit, and continue north onto the 99 Frontage Road. At approximately 1.5 miles turn right onto Live Oak Road; the CCTRR is approximately .9 miles east on Live Oak Road, on the south side, and extends South to Bear Creek.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries) This segment of the CCTRR is approximately .8 miles in length, and extends between Live Oak Road and Bear Creek.

In this segment of the railroad there is one set of standard gauge tracks resting on a slightly elevated bed of coarse granite rock track ballast. The railroad tracks are 62 inches wide, from the outer edges of the tracks. The railroad tracks sit approximately 10 feet on the west of the levee.

*P3b. Resource Attributes: (List attributes and codes) AH7: Railroad grade

*P4. Resources Present: ☐Building ■Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo: (View, date, accession #) Looking north, from south end of segment at Bear Creek; April 5, 2010; photo #100_2054

*P6. Date Constructed/Age and Sources: ■Historic ☐Prehistoric ☐Both
1907-1910 (from Larson et al, 2003)

*P7. Owner and Address: Union Pacific Railroad

*P8. Recorded by: (Name, affiliation, and address) Peter J. Morris, PARUS Consulting, Inc., 1508 Eureka Road, Suite 108, Roseville, CA 95661

*P9. Date Recorded: April 5, 2010

*P10. Survey Type: (Describe) Intensive pedestrian

*P11. Report Citation: (Cite survey report and other sources, or enter "none.") C. Arrington 2010: An Archeological Survey for the Department of Water Resources' Geotechnical Levee Investigation of Bear Creek Wing Levee, Brookside, Mosher Diversion Canal, Mosher Slough, Pixley Slough, Shima Tract, and Upper Calaveras River, San Joaquin County, California

*Attachments: ☐NONE ■Location Map ☐Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

DPR 523A (1/95)

*Required information

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State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

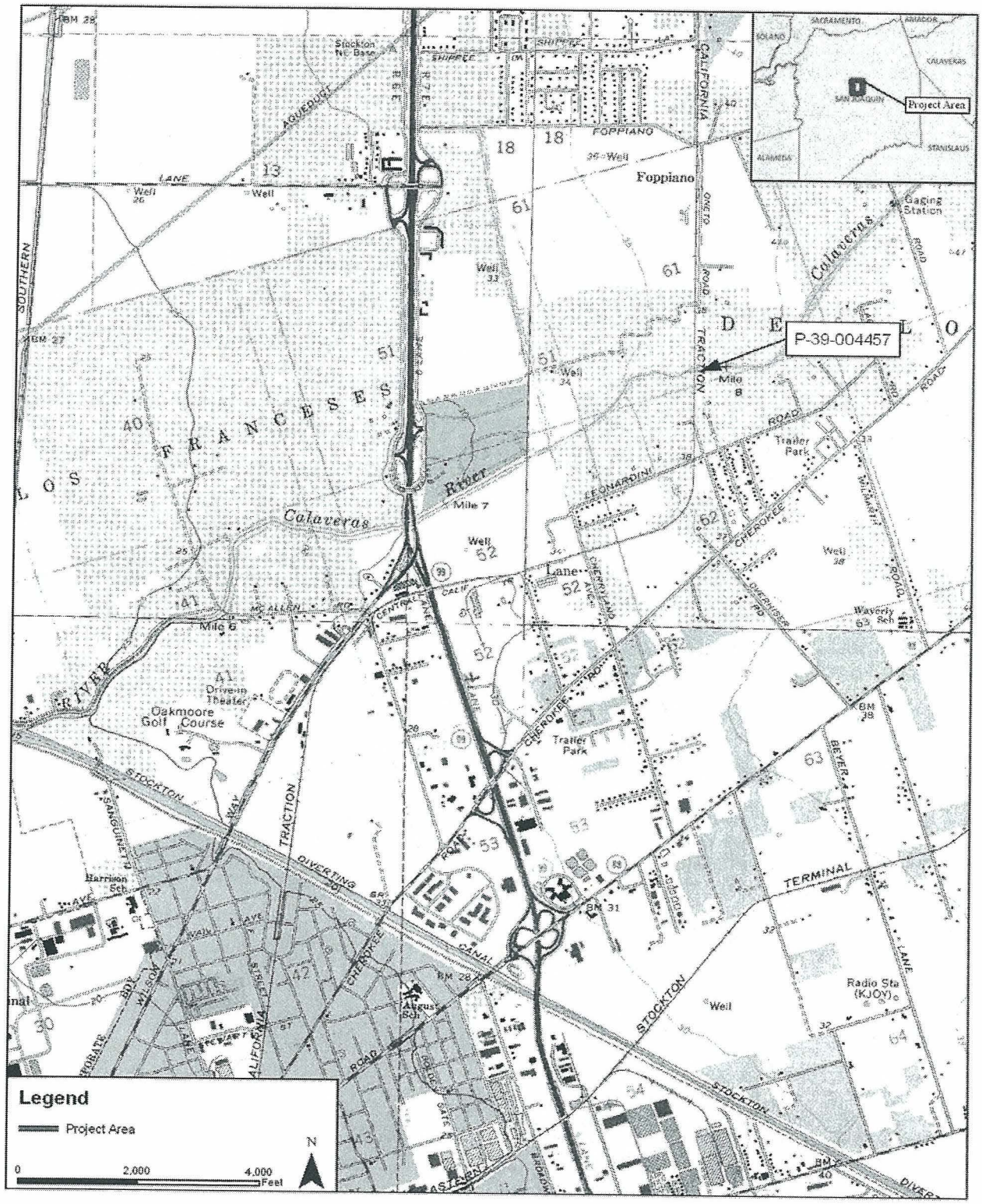
LOCATION MAP

Primary # 39-004457
HRI#
Trinomial CA-SJO-000294H

***Resource Name or #:** CCTRR Update

***Map Name: Waterloo**

***Scale:1:24,000** ***Date of Map:** 1978



DPR 523J (1/95)

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The resource was first recorded in 2003 by JRP Historical Consulting Services. The Central California Traction company formed in 1905 with the goal of building an electric railroad between Stockton and Sacramento. The line was completed in 1910. The line provided both freight and passenger service initially, but when later purchased (jointly by the Atchison, Topeka, & Santa Fe and Western Pacific) passenger service was suspeneded. The line converted to diesel in 1946. Currently, the line is owned jointly by the Union Pacific and Burlington Northern Santa Fe. The Lodi-Sacramento run was discontinued in 1998.

The updated segment is just over 2300 feet in length. JRP noted that the railroad had lost integrity when it was converted to diesel, with many of its original parts having been replaced. This resource does not maintain sufficient historic integrity for NRHP or CRHR eligibility. The surrounding setting has been heavily altered with urbanization and roadway improvements. The ties and tracks have been replaced numerous times. These alterations detract from the integrity of design, workmanship, and feeling of the resource. Therefore, this resource segment is recommended as not eligible for the listing in the NRHP or the CRHR. It is still in use.

UTM coordinates for the section being updated are given below.

UTM coordinates are given in Nad83.
North End:650393mE/4205296mN
South End: 650666mE/4204602mE

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DEPARTMENT OF PARKS AND RECREATION

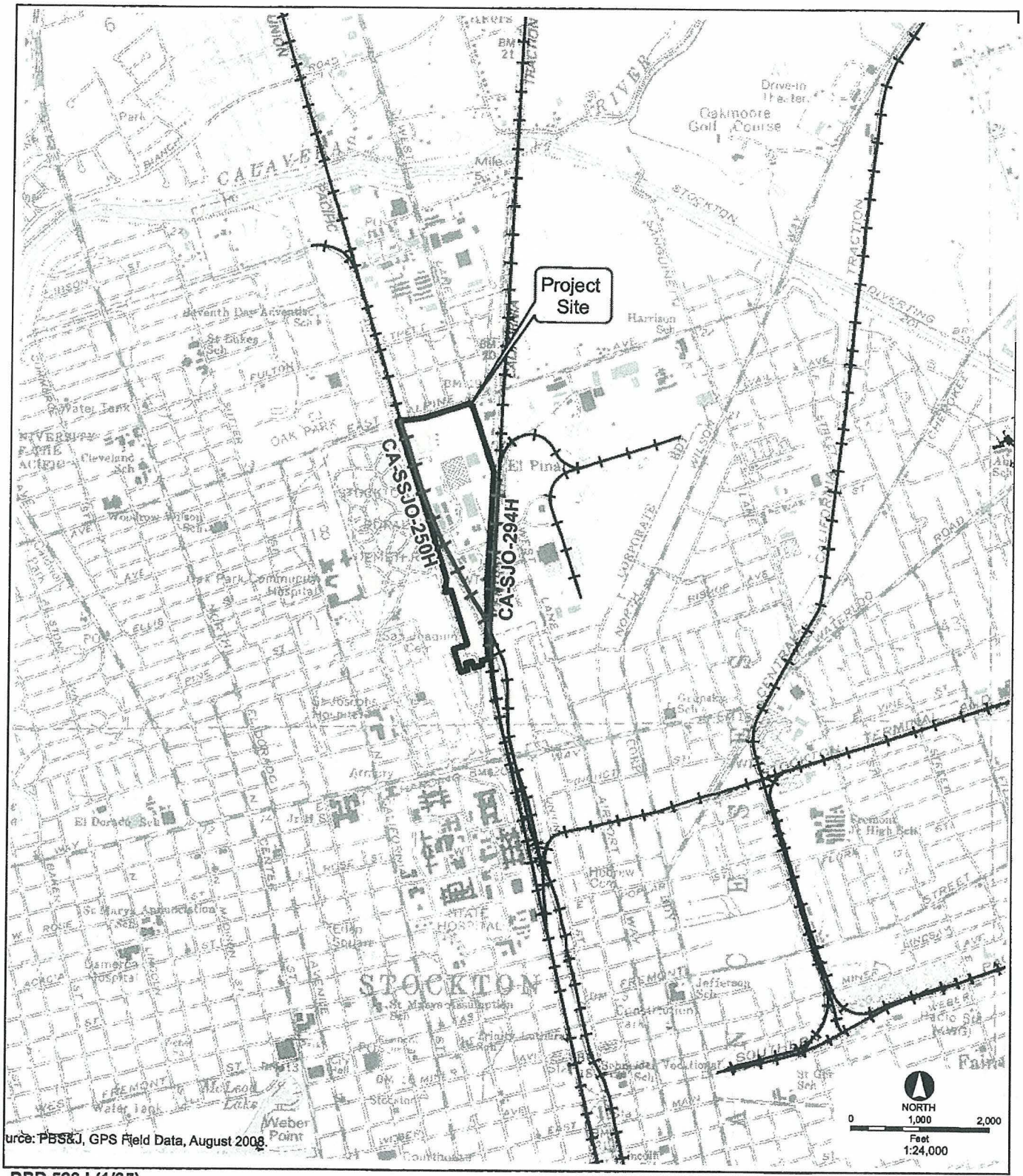
LOCATION MAP

Primary # P-39-004457
HRI#
Trinomial CA-SJO-294H

***Resource Name or #:** Central California Traction Railroad

***Map Name:** Stockton West

***Scale:** 1:24000 ***Date of Map:** 1968 (revised 1987)



urce: PBS&J, GPS Field Data, August 2008.

DPR 523J (1/95)

*Required information

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State of California — The Resources Agency	Primary # P-39-4457
DEPARTMENT OF PARKS AND RECREATION	HRI#
CONTINUATION SHEET	Trinomial CA-SJO-294H

Page 1 **of** 3 ***Resource Name or #** Central California Traction Railroad

***Updated by:** S. Pappas, K. Tippett Stockton West 7.5' ***Date:** 11/2/2011 ☐ Continuation ☒ Update

3/17

An approximate 1.4 mile portion of the Central California Traction Railroad was identified during ECORP's 2011 survey for the PG&E Stockton "A" Reconductoring project. The segment identified by ECORP began at the intersection of Waterloo Road and Hiawatha Avenue (north end) and ended at the intersection of B Street and East Hazelton Avenue (southern end). The portion identified by ECORP had not previously been recorded, and the nearest recorded portion is located 0.77 mile northwest of the northern end (Martinez 2008).

According to the prevous records, many parts of the original railroad grade were replaced when the railroad was converted to diesel power. During ECORP's identification, several portions appeared to be updated with modern rails and ties.

Reference:

Martinez, Jesse
2008 Site update record for P-39-4457 (Central California Traction Railroad). Site record provided by Central California Information Center, CSU Stanislaus.

***P11. Report Citation:** Lisa Westwood. 2011. Pacific Gas & Electric Company's Stockton "A" Reconductoring Project, San Joaquin County, California. Prepared by ECORP Consulting Inc. Rocklin, California. Prepared for Cardno ENTRIX, Sacramento, California



Overview of CCTRR at northern end of recorded segment, view SW, Photo #057, 11/2/2011



Overview of CCTRR at East Freemont Street, view north, Photo #043, 11/2/2011

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State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 5070 East Kettleman Lane (Resource ID 03)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NW 1/4 of Sec 18; MD B.M.
c. Address 5070 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653106 mE/ 4220096 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-020-160)

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This property consists of a two-story residence and four outbuildings. The resources are heavily obscured from the public vantage point by fencing and large hedges. The residence occupies an irregular footprint and terminates in a side-gable roof that is sheathed in asphalt shingles with exposed rafter tails tucked under the eaves. A gable dormer is set the roof on the main, north elevation. The building exterior appears to be clad in clapboard and board and batten, and aluminum sliding windows are visible at the east and west elevations, including a bay window at the east elevation. A large addition was built on its west elevation sometime between 1993 and 1998 (NETROnline 2023). A one-story detached garage with an asphalt shingle-clad front gable roof and an aluminum siding exterior is east of the residence. Other outbuildings are located against the back property line and appear to consist of a metal carport and two sheds with metal roofs. The parcel is set in an agricultural and industrial mixed-use area of Lodi. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1905 (Parcelquest.com 2022)

*P7. Owner and Address:
Wai Shing & Boo Jin Wong
5070 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address)
A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5070 East Kettleman Lane (Resource ID 03) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 5070 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Vernacular, Utilitarian

***B6. Construction History:** Residence constructed in 1905 with outbuildings added sometime between1993 and 2002 (NETROnline 2023). The replacement roofing material, aluminum windows, and siding on the residence were installed in the 1980s or 1990s based on visual observation. A large addition was built on the residence's west elevation sometime between 1993 and 998, nearly doubling the resource's square footage (NETROnline 2023).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 5070 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity of design, workmanship, feeling, and setting due to the replacement roofing material, aluminum windows, siding, and the construction of a large addition in the 1990s. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 5070 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5070 East Kettleman Lane

The property at 5070 East Kettleman Lane is currently owned by Wai Shing and Boo Jin Wong. Tax assessor records show the last deed transaction of the property dating to November 22, 2002. A 1911 county atlas illustrates the subject property as well as adjacent tracts were owned by H.L. Wallace in 1911 (historicmapworks.com 2023). Residences are shown east of the property in the 1911 map. The earliest aerial photograph available for the area dates from 1957 and shows the area surrounding the property as agricultural to the west and residential to the east, with new development of several homes on tracts formerly owned by H.L. Wallace (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners, including H.L. Wallace.

This property is previously unrecorded and unevaluated. The residence has been modified through the installation of replacement windows, siding, and roofing material within the past circa 40 years and the construction of a large and highly visible on its west elevation in the 1990s. Four outbuildings also have been added to the parcel within the past circa 30 years. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. The subject property was not the first residence in the agricultural area east of Lodi, and regardless, it lacks sufficient integrity to convey any associations as an early twentieth-century rural property. Therefore, the property at 5070 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that H.L. Wallace made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5070 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Craftsman style such as exposed rafter tails supporting its broad overhanging roof, however, is highly altered due to replacement materials and construction of an addition. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5070 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The residence at 5070 East Kettleman Lane has not been moved and therefore retains its integrity of location.

Design is the combination of elements that create the form, plan, space, and style of a property. The residence has been modified through the installation of replacement windows, siding, and roofing material within the past circa 40 years and the construction of a large and highly visible on its west elevation in the 1990s. Four outbuildings also have been added to the parcel within the past circa 30 years. As a result, the property has lost its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring residential properties in a similar arrangement to today. However, the setting overall was more rural, with none of the existing commercial or industrial development to the north or the highway to the west. Therefore, the property's integrity of setting is diminished.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property has been modified through the installation of replacement windows, siding,

and roofing materials within the past circa 40 years and a large addition in the 1990s, which has diminished its integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has been modified through the installation of replacement windows, siding, and roofing materials within the past circa 40 years and a large addition in the 1990s, which has diminished its integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Alterations to the residence coupled with the addition of outbuildings within the past 30 years as well as adjacent non-historic-era development in the surrounding area has jeopardized the property's integrity of feeling. It no longer conveys its historic character and appearance.

Association is the direct link between an important historic event or person and a historic property. The cumulative impact of the loss of the aforementioned aspects of integrity has resulted in the property also losing integrity of association.

In conclusion, the property at 5070 East Kettleman Lane does not meet any of the CRHR criteria and lacks integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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No author. 1890. An Illustrated History of San Joaquin County, California. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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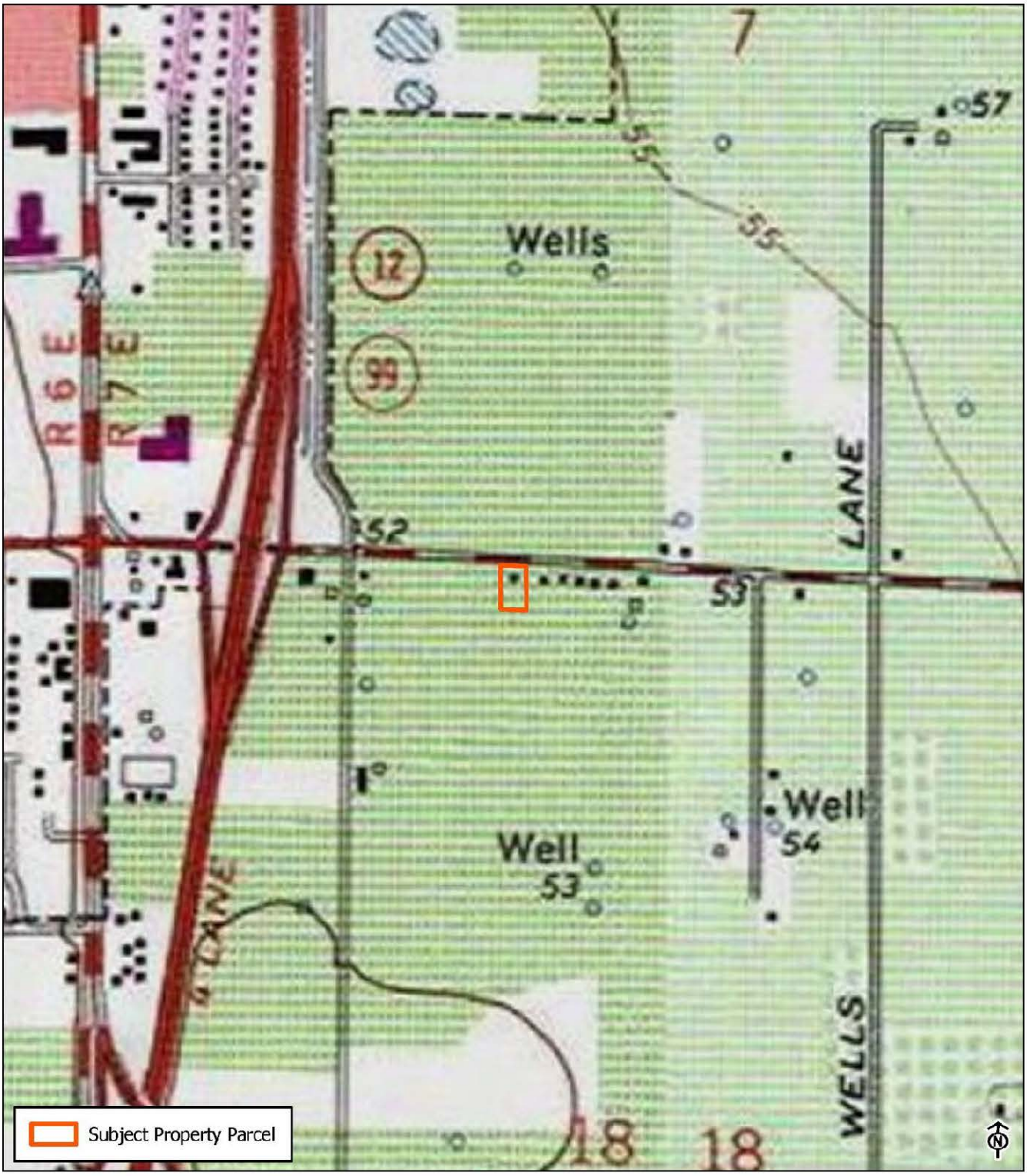
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 5070 East Kettleman Lane (Resource ID 03)

*Map Name: Lodi South 1960 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 5100 East Kettleman Lane (Resource ID 04)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NW 1/4 of Sec 18; MD B.M.
c. Address 5100 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653100 mE/ 4220129 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-020-170)

*P3a. Description:
The subject property is a one-story Ranch-style residence with an irregular footprint. It has a concrete slab foundation and hipped roof sheathed in composite shingles. The main entrance consists of what appears to be an original wood door centered on the north façade. It is sheltered by a small porch formed by an overhang of the roof that is supported by a column covered in a rock veneer. The building exterior is clad in stucco and board and batten with a rock veneer adjacent to the main entrance. Windows are replacement sliding vinyl units. A looped driveway leads to the garage on the west end of the façade. Three outbuildings are at the rear of the parcel but are not visible from the public vantage point due to a wood fence enclosing the backyard. The property is located in an agricultural/industrial area east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1960 (Parcelquest.com 2022)

*P7. Owner and Address:
Poso Frank & California
5100 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5100 East Kettleman Lane (Resource ID 04) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 5100 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Constructed in 1960 (Parcelquest.com 2022). The rear outbuildings were constructed sometime 1998 and 2005 (NETROnline 2023). The residence has been altered within the past circa 40 years through the installation of replacement windows and garage door as well as replacement siding consisting of stucco and a rock veneer adjacent to the main entrance. The board and batten appears to be original.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A

The property at 5100 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and therefore is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 5100 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5100 East Kettleman Lane

The property at 5100 East Kettleman Lane is currently owned by Frank and California Poso. Tax assessor records show the last deed transaction of the property dating to July 5, 2018. A 1911 county atlas shows this property and adjacent tracts were owned by H.L. Wallace (historicmapworks.com 2023). The earliest aerial photograph for the area dates from 1957 and shows this parcel was undeveloped at that time (NETROnline 2022). In 1967 aerial, the current residence appears (constructed in 1960) (NETROnline 2022). The aerial also shows agricultural land to the west of the property and residential development to the east, on land formerly owned by H.L. Wallace. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners, including H.L. Wallace.

This property is previously unrecorded and unevaluated. It has been modified within the past circa 40 years through the installation of replacement windows, siding, roofing material, and garage doors, as well as the addition of outbuildings within the past circa 25 years. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property at 5100 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that H.L. Wallace made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5070 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Ranch style such as its hipped roof and low, horizontal massing, however, it has been altered through the installation of replacement materials. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5100 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The residence at 5100 East Kettleman Lane has not been moved and therefore retains its integrity of location.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been jeopardized through the installation of replacement windows, siding, and garage doors that have altered its appearance form its period of construction.

Setting is the physical environment of a historic property. Aerial photographs from 1957, shortly before the residence was constructed, show the neighboring residential properties in a similar arrangement to today. However, the setting overall was more rural, with none of the existing commercial or industrial development to the north or the highway to the west. Therefore, the property's integrity of setting is diminished.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property's integrity of materials has been lost due to replacement windows, siding, and garage doors.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property's integrity of workmanship has been lost due to replacement windows, siding, and garage doors.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Alterations to the residence have diminished its ability to convey its character and appearance as a 1960s rural residential property has been diminished. As a result, the property's integrity of feeling has been impacted.

Association is the direct link between an important historic event or person and a historic property. The aforementioned alterations also have impacted the property's ability to convey its association as a 1960s rural residential property. It would not be immediately recognizable to persons from the past.

In conclusion, the property at 5100 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not considered a historical resource for the purposes of CEQA.

B12. References (continued)

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** (Assigned by recorder) 5100 East Kettleman Lane (Resource ID 04)

***Map Name:** Lodi South 1960 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 5136 East Kettleman Lane (Resource ID 05)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NW 1/4 of Sec 18; MD B.M.
c. Address 5136 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653157 mE/ 4220128 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-020-180)

*P3a. Description:
The subject property consists of a one-story residence, detached garage, and three metal sheds. The residence has Minimal Traditional elements, such as a compact rectangular footprint and moderately-pitched cross-gable roof sheathed in composite shingles. A brick chimney is set on the rear, south elevation. The main entrance consists of a replacement door set on the east elevation. It is sheltered by an overhang of the roof and accessed by concrete steps. A bay window addition is set at the west end of the building's north, street-facing elevation. Exterior cladding appears to be clapboard with a scalloping detail in the gable end. A brick veneer also has been added along the lower part of the north façade. Windows are replacement vinyl units. The garage is east of the residence and has a front-gable roof and brick veneer with board and batten in the gable end. A roof extension connects the garage to the residence. The sheds in the backyard were not visible from the public vantage point. A non-historic-era fence separates the residence from East Kettleman Lane to the north. The property is set in an agricultural/industrial area east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property, HP 4. Ancillary Building
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1949 (Parcelquest.com 2022)

*P7. Owner and Address:
Lester & Thelma Wagner
5136 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5136 East Kettleman Lane (Resource ID 05) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 5136 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional

***B6. Construction History:** Residence constructed in 1949 (Parcelquest.com 2022). The garage also appears to date from 1949 and was enlarged on its south end sometime between 1984 and 1993 (NETROnline 2022). The three sheds were also added in the backyard sometime between 1984 and 1993 (NETROnline 2022). Alterations to the residence and garage appear to have occurred within the past 40 years. They consist of replacement siding and doors at the garage; replacement windows and door at the residence; installation of a brick veneer on the lower part of the residence's north elevation; the addition of the bay window on the north elevation of the residence; and the roof overhang connecting the residence and garage. The residence also was enlarged through the construction of a rear addition sometime between 1957 and 1967 that doubled its sqaure footage (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A

The property at 5136 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and therefore is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 5136 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5136 East Kettleman Lane

The property at 5136 East Kettleman Lane is currently owned by Lester and Thelma Wagner. Tax assessor records show the last deed transaction of the property dating to July 15, 1999. A 1911 county atlas shows this property and adjacent tracts were owned by H.L. Wallace (historicmapworks.com 2023). The earliest aerial photograph for the area dates from 1957 and shows the residence and garage (NETROnline 2022). The aerial also shows agricultural land to the west of the property and residential development to the east, on land formerly owned by H.L. Wallace. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners, including H.L. Wallace.

This property is previously unrecorded and unevaluated. Alterations to the residence and garage appear to have occurred within the past 40 years. They consist of replacement siding and doors at the garage; replacement windows and door at the residence; installation of a brick veneer on the lower part of the residence's north elevation; the addition of the bay window on the north elevation of the residence; and the roof overhang connecting the residence and garage. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property at 5136 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that H.L. Wallace made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5136 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Minimal Traditional style such as its compact footprint and cross-gable roof, however, it has been altered through the installation of replacement materials and addition of a bay window on the north elevation. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5136 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The property at 5100 East Kettleman Lane has not been moved and therefore retains its integrity of location.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been diminished through alterations within the past 40 years. This includes replacement siding and doors at the garage; replacement windows and door at the residence; installation of a brick veneer on the lower part of the residence's north elevation; the addition of the bay window on the north elevation of the residence; and the roof overhang connecting the residence and garage.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring residential properties in a similar arrangement to today. However, the setting overall was more rural, with none of the existing commercial or industrial development to the north or the highway to the west. Therefore, the property's integrity of setting is diminished.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property's integrity of materials has been diminished due to replacement windows, siding, and doors.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property's integrity of workmanship has been diminished due to replacement windows, siding, and doors.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although modifications have occurred to the property, overall, it continues to convey its character as a 1940s rural residential property. Therefore, it retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Despite changes, this property is still able to convey its association as a 1940s rural residential property.

In conclusion, the property at 5136 East Kettleman Lane does not meet any of the CRHR criteria and has diminished integrity. Therefore, the property is not considered a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 5136 East Kettleman Lane (Resource ID 05)

***Map Name:** Lodi South 1960 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 5174 East Kettleman Lane (Resource ID 06)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NW 1/4 of Sec 18; MD B.M.
c. Address 5174 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653183 mE/ 422083 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-020-190)

*P3a. Description:
The subject property is a one-story residence with Minimal Traditional elements and a rear accessory dwelling unit (ADU) that appears to have been built as a garage. The residence has a tile-covered front-gable roof with a brick exterior chimney set on the north elevation. An addition at the east side of this elevation has a hipped roof, entry door, and large plate glass window. A metal awning covers the entrance at the west elevation. The residence exterior is stucco with aluminum siding in the gable end. Windows are vinyl replacement units, including added bay windows. The ADU has a side-gable tile roof, stucco siding, and replacement windows. Views of it from the public vantage point are blocked by the residence. The property is set in an agricultural and industrial area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ϒ Prehistoric
ϒ Both
Circa 1967 (NETRonline.com 2022)

*P7. Owner and Address:
Izhar & Musarat Shah
5136 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5174 East Kettleman Lane (Resource ID 06) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 5174 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional elements

***B6. Construction History:** According to the San Joaquin County Assessor, the residence was constructed in 1933. However, the earliest available aerial of the area from 1957 shows the building was non-extant and that the parcel was used as agricultural land associated with the residence to the west. The 1967 aerial shows the residence and ADU that are currently extant. Therefore, the residence and ADU, the latter of which appears to have been constructed as a garage and converted to an ADU at an unknown date, were built sometime between 1957 and 1967 based on aerials. The addition to the residence's north elevation dates from sometime between 1993 and 1998 (NETROnline 2023). The date of replacement windows, roofing material, and siding on both the ADU and residence are unknown but likely occurred within the past circa 35 years based on visual inspection.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development
Area San Joaquin Valley
Period of Significance N/A
Property Type Residential
Applicable Criteria N/A

The property at 5174 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property lacks integrity and significance. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 5174 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5174 East Kettleman Lane

The property at 5174 East Kettleman Lane is currently owned by Izhar & Musarat Shah. Tax assessor records show the last deed transaction of the property dating to January 31, 2002. A 1911 county atlas shows this property and adjacent tracts were owned by H.L. Wallace (historicmapworks.com 2023).The boundaries of Wallace's property appear to end at the eastern boundary of the parcel associated with 5174 East Kettleman Lane. According to the San Joaquin County Assessor, the residence was constructed in 1933. However, the earliest available aerial of the area from 1957 shows the parcel was undeveloped and instead used as agricultural land related to the residence to the west. The 1967 aerial shows the residence and ADU that are currently extant. Therefore, the residence and ADU were built sometime between 1957 and 1967. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has been modified through the construction of an addition at the north elevation, as well as the conversion of the garage to ADU, and the installation of replacement windows, roofing material, and siding within the past circa 35 years. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Regardless, the property is highly altered from the construction of an addition and installation of replacement materials. Therefore, the property at 5174 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that H.L. Wallace made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5174 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Minimal Traditional style such as its compact footprint and front-gable roof, however, it has been altered through the construction of an addition and the installation of replacement materials and the additions of bay windows. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5174 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 5174 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified through the addition at the north elevation, the replacement of the windows, roofing material, and siding, and the addition of bay windows, as well as the conversion of the garage to an ADU.

Setting is the physical environment of a historic property. Historical photographs from 1967 show the neighboring residential properties in a very similar arrangement to what they are today. However, the setting at the time of construction of the residence was more rural, with no commercial or industrial development to the north. Therefore, the setting of the property is no longer intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has been modified through the addition at the north elevation and the replacement of the windows, roofing material, and siding, which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. This property has been modified through the addition at the north elevation and the replacement of the windows, roofing material, and siding, which has resulted in a diminishment of the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property no longer retains its original appearance and character. It would not be immediately recognizable to persons from the past and therefore has lost its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The cumulative impact of the alterations occurring to the property has resulted in a loss of integrity of association.

In conclusion, the property at 5174 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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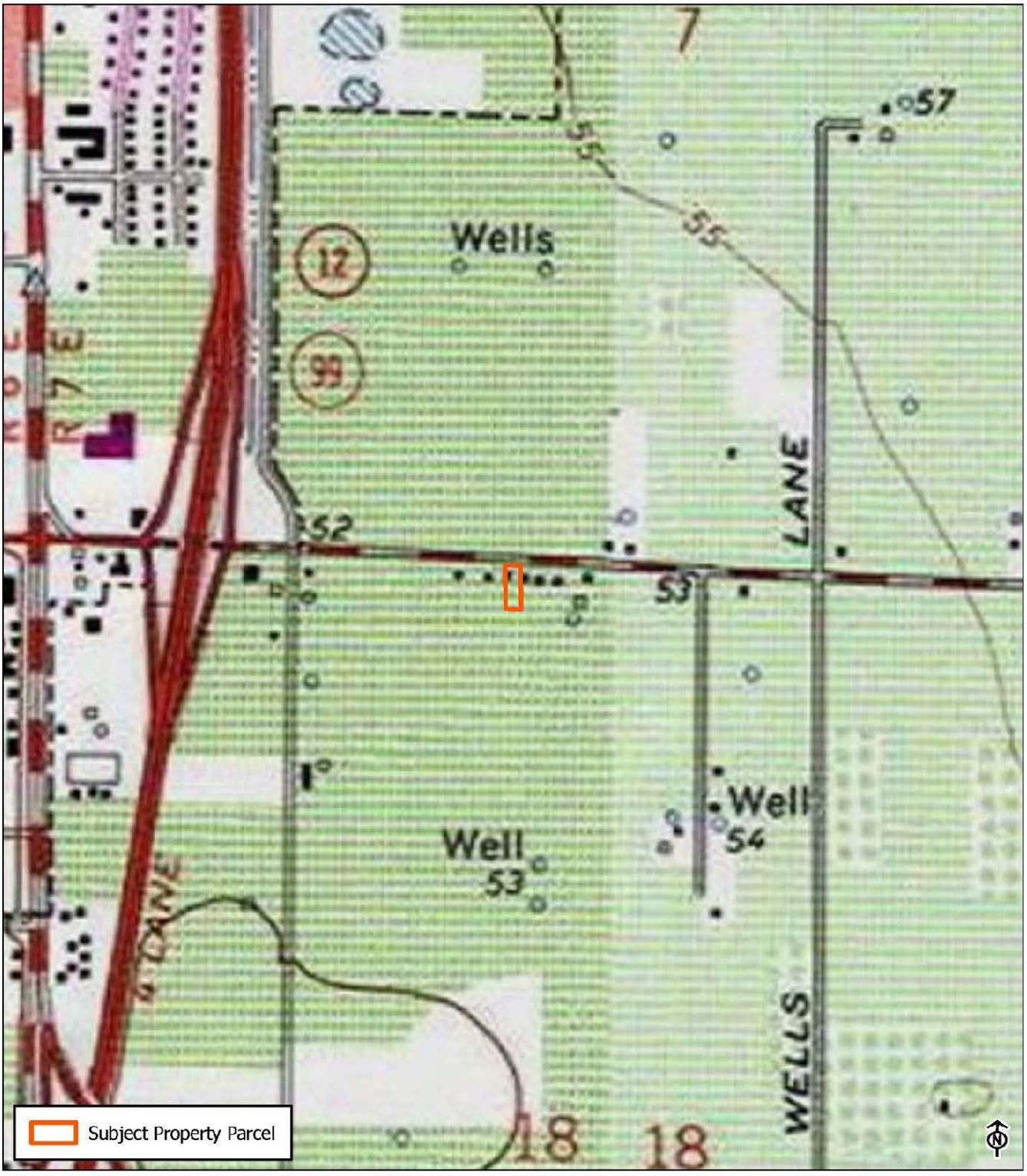
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 5174 East Kettleman Lane (Resource 06)

*Map Name: Lodi South 1960 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

 *Resource Name or #: (Assigned by recorder) 5242 East Kettleman Lane (Resource ID 07)

P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NE 1/4 of Sec 18; MD B.M.

c. Address 5242 East Kettleman Lane, Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653183 mE/ 422083 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-030-010)

*P3a. Description:

The subject property consists of a Tudor Revival-style residence, detached garage, and three outbuildings. The residence is two stories, with a steeply pitched cross-gable roof composed of composite shingles. The sweeping eave of roof covers a small porch at the main entrance on the north elevation. Windows are vinyl replacements and the building exterior is covered in stucco. The detached garage has a metal rollup door, front-gable roof of low pitch, and stucco exterior. The three outbuildings were not visible from the public vantage point but are rectangular and have corrugated metal roofs based on aerials. The property is set in an agricultural and industrial area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property



*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1935 (Parcelquest.com 2022)

*P7. Owner and Address:
Thomas P & Shirley A Lococo
5242 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5242 East Kettleman Lane (Resource 07) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 5242 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Tudor Revival

***B6. Construction History:** Residence constructed in 1935 (Parcelquest.com 2022). Outbuildings on the parcel were constructed sometime between 2005 and 2009 (NETROnline 2023). The residence has replacement vinyl windows, roofing material, and stucco siding. The detached garage has replacement siding as well as a modern garage door. All replacement materials appear to have been added within the past circa 40 years.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development
Area San Joaquin County
Period of Significance N/A
Property Type Residential
Applicable Criteria N/A

The property at 5242 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section 10. Significance (continued)

Historic Context

The property at 5242 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5242 East Kettleman Lane

The property at 5242 East Kettleman Lane is currently owned by Thomas P & Shirley A Lococo. Tax assessor records show the last deed transaction of the property dating to April 25, 1997. A 1911 county atlas shows this property and adjacent tracts were owned by H.L. Wallace (historicmapworks.com 2023).The boundaries of Wallace's property appear to end at the eastern boundary of the parcel associated with 5242 East Kettleman Lane. According to the San Joaquin County Assessor, the residence was constructed in 1935. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has been modified with replacement vinyl windows, roofing material, and stucco siding. The detached garage has replacement siding as well as a replacement garage door. These replacements date from within the past circa 40 years. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property at 5242 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that H.L. Wallace made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5242 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Tudor Revival style such as its high-pitched roof and sweeping eave, however, it has been altered through the installation of replacement materials. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5242 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 5242 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified by replacement vinyl windows, roofing material, and stucco siding.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring residential properties in a very similar arrangement to what they are today. However, the setting at the time of construction of the residence was more rural, with no commercial or industrial development to the north. Therefore, the setting of the property is no longer intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has been modified with replacement vinyl windows, roofing material, and stucco siding, which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has lost integrity of workmanship due to the replacement vinyl windows, roofing material, and stucco siding.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property overall it continues to convey the character of a 1930s rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Despite changes, the property retains its association as a 1930s rural residential property.

In conclusion, the property at 5242 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity, therefore, the property is not a historical resource for the purposes of CEQA.

*** B12. References (continued):**

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

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Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

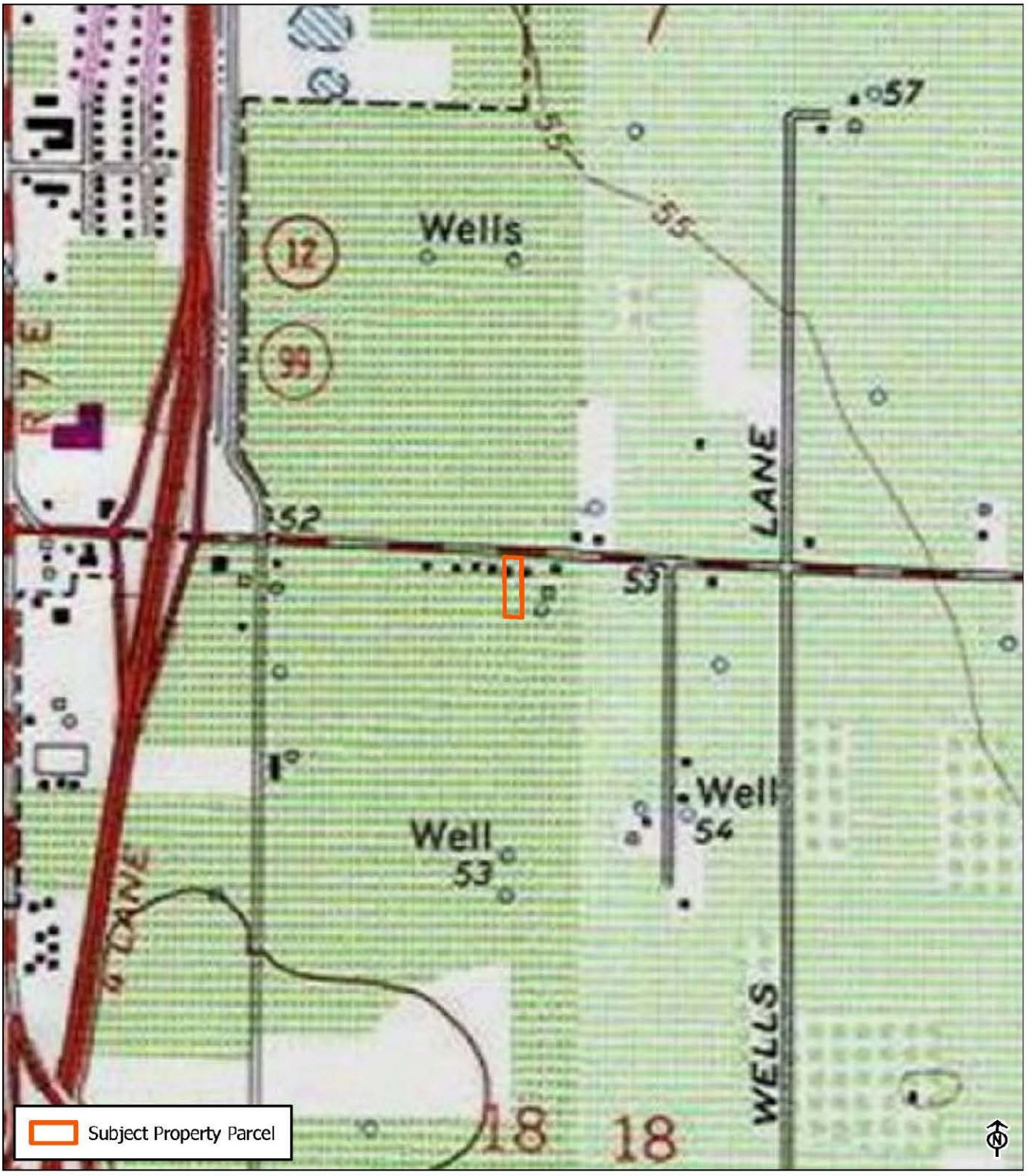
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 5242 East Kettleman Lane (Resource ID 07)

*Map Name: Lodi South 1960 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

 *Resource Name or #: (Assigned by recorder) 5260 East Kettleman Lane (Resource ID 08)

P1. Other Identifier: N/A

*P2. Location: ϒ Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Lodi South Date 1960 T 3N; R 7E; NE 1/4 of Sec 18; MD B.M.

c. Address 5260 East Kettleman Lane, Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653268 mE/ 422089 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-030-580)

*P3a. Description:

The subject property consists of a one-story Tudor-Revival style residence, a detached garage, and a shed. The residence has a steeply pitched cross-gable roof, stucco siding, and replacement vinyl windows. A front-gabled portico shelters the main entrance and is centered on the building's north elevation, which is symmetrical. The barn appears to be corrugated metal and incorporates a two-story addition with a gambrel roof, garage bay, and exterior staircase. The shed appears to be a simple wooden structure with a metal roof. Views of the property were limited from the public vantage point due to large hedges. The parcel is set in an agricultural and industrial area of east Lodi. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property; HP 4. Ancillary Building

*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1933 (Parcelquest.com 2022)

*P7. Owner and Address:
Georgia Perlegos
5260 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5260 East Kettleman Lane (Resource ID 08) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 5260 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Tudor Revival

***B6. Construction History:** Residence constructed in 1933 (Parcelquest.com 2022). The earliest historic aerial of the area from 1957 shows the garage was extant at that time. The garage was likely constructed contemporaneously with the residence in 1933. A large two-story addition was completed on the garage sometime between 1974 and 1993 that appears to be used as a barn. The shed was also constructed sometime between 1984 and 1993 (NETROnline 2022). The residence has been altered through the installation of replacement roofing, stucco siding, and vinyl windows within the past circa 40 years.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential
Area San Joaquin Valley
Period of Significance N/A
Property Type Residential
Applicable Criteria N/A

The property at 5260 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section 10. Significance (continued)

Historic Context

The property at 5260 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5260 East Kettleman Lane

The property at 5260 East Kettleman Lane is currently owned by Georgia Perlegos. Tax assessor records show the last deed transaction of the property dating to April 19, 1999. A 1911 county atlas the property was owned by Thos Troy (historicmapworks.com 2023). According to the San Joaquin County Assessor, the residence was constructed in 1933. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has been modified with replacement roofing material, vinyl windows, and stucco siding within the past circa 40 years. The detached garage has been modified through the construction of a large, two-story addition sometime between 1984 and 1993 based on aerials. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property at 5260 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Thos Troy made any important contributions to history. No other past owners were identified during research. Therefore, the property at 5260 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Tudor Revival style such as its high-pitched gable cross-roof, however, it has been altered through the installation of replacement materials. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property at 5260 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 5260 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Despite the installation of replacement materials, this property retains its overall integrity of design from its period of construction.

Setting is the physical environment of a historic property. Historic aerials from 1957 show the neighboring residential properties in a very similar arrangement to what they are today. However, the setting at the time of construction of the residence was more rural, with no commercial or industrial development to the north. Therefore, the setting of the property is no longer intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has been modified with replacement roofing material, stucco siding, and vinyl windows, which has diminished the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. This property has been modified with replacement roofing material, stucco siding, and vinyl windows, which has diminished the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey its historic appearance and character. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property would be recognizable to persons from the past. It therefore retains its integrity of association as a 1930s rural residential property.

In conclusion, although it appears to retain some integrity, the property at 5260 East Kettleman Lane does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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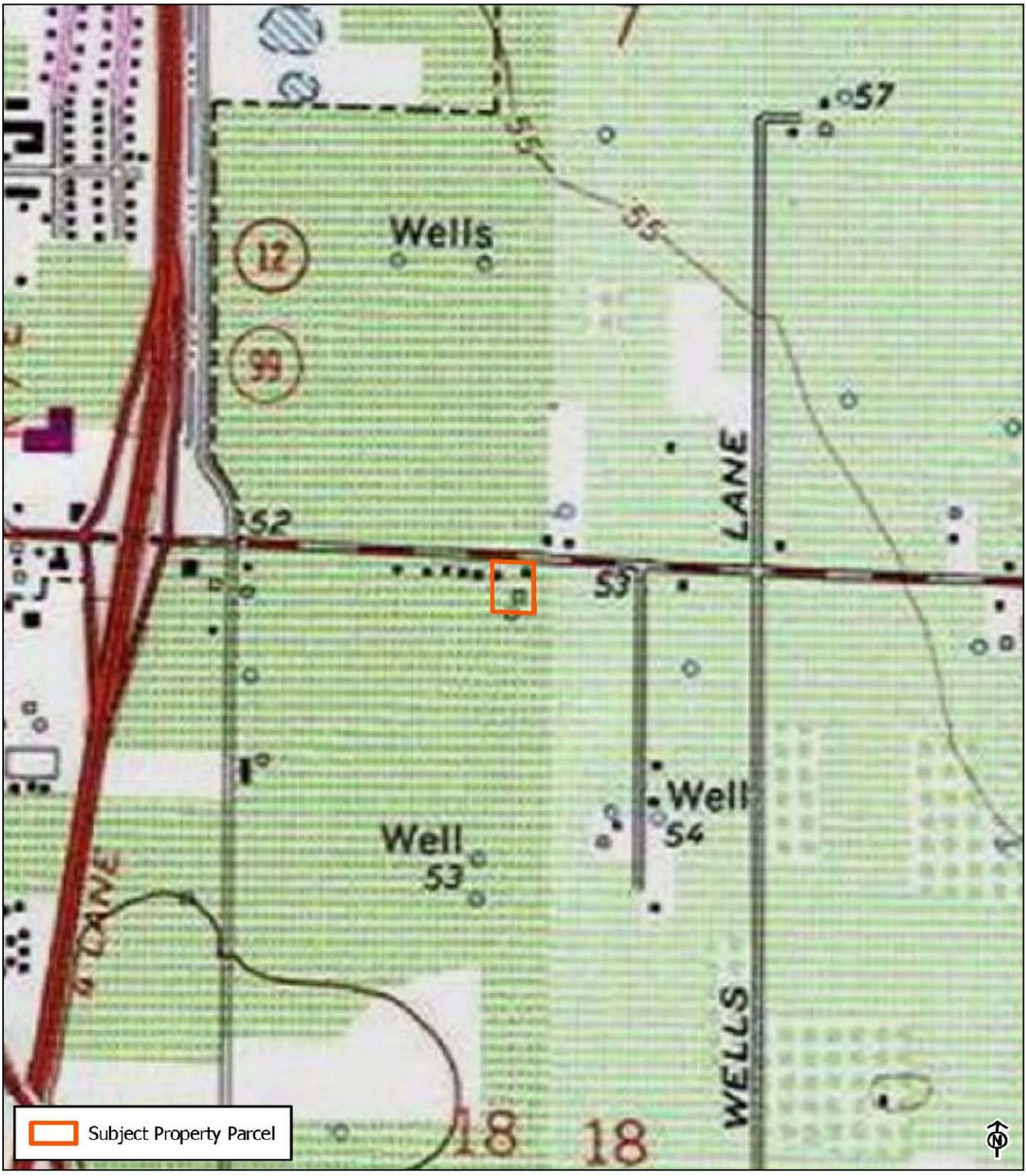
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 5260 East Kettleman Lane (Resource ID 08)

***Map Name:** Lodi South 1960 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 1203 East Lodi Avenue (Resource ID 09)

P1. Other Identifier: California Farm Supply

*P2. Location: ☐ Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Lodi North Date 1978 T 3N; R 7E; SE 1/4 of Sec 6; MD B.M.

c. Address 1203 East Lodi Avenue, Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653196 mE/ 4221797 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate) Assessor's Parcel Number: 049-090-410)

*P3a. Description:

The subject property consists of rectangular double-height industrial building with three garage bays with rollup metal doors. The building has a metal-clad low pitch front-gable roof, concrete slab foundation, and corrugated metal exterior. The street-facing, south elevation has one garage bay and one flush door. The west elevation has two garage bays. The property is set in an industrial area of east Lodi. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building

*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View northeast, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
Circa 1967 (NETRonline.com 2023)

*P7. Owner and Address:
Beth Anne Griffin Latta
119 North Crecent Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe) Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 1203 East Lodi Avenue (Resource ID 09) ***NRHP Status Code** 6Z
Page 2 **of** 6

B1. Historic Name: N/A
B2. Common Name: California Farm Supply
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed circa 1967 (sometime between 1957 and 1967 based on aerials) (NETROnline 2023). The building appears to be unaltered from its period of construction based on review of aerials and visual inspection.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Industrial development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 1203 East Lodi Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

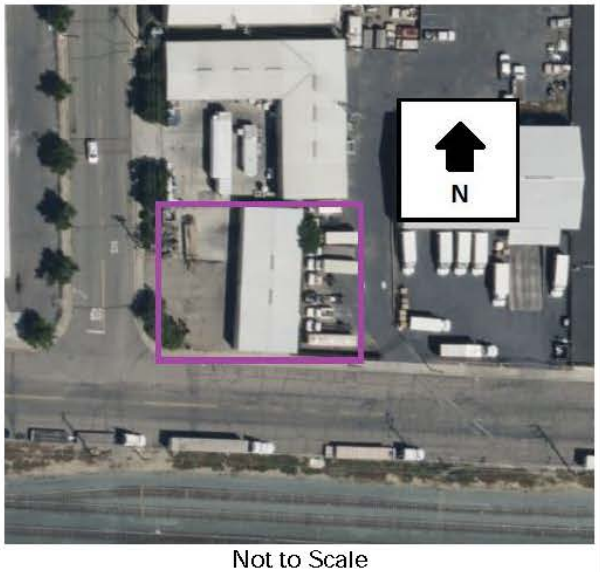
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 1203 East Lodi Avenue is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

1203 East Lodi Avenue

The property at 1203 East Lodi Avenue is currently owned by Beth Anne Griffin Latta and serves as a farm supply store or warehouse known as California Farm Supply (parcelquest.com 2022). Tax assessor records show the last deed transaction of the property dating to October 31, 2014. A 1911 county atlas shows the west side of the parcel was owned by J.A. Pope in 1911, and the east side of the parcel did not appear to have an owner (historicmapworks.com 2023). According to the aerials, the warehouse building was constructed sometime between 1957 and 1967 (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no direct associations with events or trends important to history. Research did not reveal that the business has played a pivotal role in the growth and development of Lodi or in spurring Lodi's overall industrial development. Lodi was founded in 1869, almost a century prior to the property, and other industrial enterprises existed in the town prior to the subject property's construction. The property is currently used as California Farm Supply; information on past businesses was not uncovered. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that J.A. Pope made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The building is utilitarian in design and is not demonstrative of any popular architectural style common to commercial or industrial properties during its period of construction, such as New Formalism or the International Style. Other mid-century industrial properties with a similar appearance and materials exist in Lodi and San Joaquin County. The subject property does not possess high artistic value or represent a design or engineering achievement. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 1203 East Lodi Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The property appears unaltered and retains its integrity of design.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the railroad alignment and agricultural land. Although these uses still remain, the industrial and residential population of the surrounding area has greatly increased, which has diminished the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. The property appears unaltered and retains its integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property appears unaltered and retains its integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its appearance and character and therefore retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of an industrial building constructed circa the 1960s and continues to convey that association.

In conclusion, although it retains integrity, the property at 1203 East Lodi Avenue does not appear to possess sufficient significance to be eligible for the CRHR. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

Saint Gobain. 2013. Accessed January 9, 2023. https://www.saint-gobain.com/sites/saint-gobain.com/files/CP_PVC_AN.pdf

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 1203 East Lodi Avenue (Resource ID 09)

***Map Name:** Lodi North 1978 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

 *Resource Name or #: (Assigned by recorder) 214 South Cluff Avenue (Resource ID 10)

P1. Other Identifier: N/A

*P2. Location: Y Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Lodi North Date 1978 T 3N; R 7E; SE 1/4 of Sec 6; MD B.M.

c. Address 214 South Cluff Avenue, Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653222 mE/ 4221859 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-090-400)

*P3a. Description:

The subject property consists of three historic-age industrial buildings (identified in this form as Buildings 1, 2, and 3) and two modern-age industrial buildings (identified as Buildings 4 and 5). The historic-age buildings consist of two rectangular corrugated metal warehouses and a large L-shaped corrugated metal industrial building. Building 1 is an L-shaped corrugated metal building with a front-gable roof and a double-height garage door at the west, street-facing façade. Buildings 2 and 3 are south of Building 1 and have rectangular footprints, front-gable corrugated metal roofs, and double-height garage doors. Views of the property from the public vantage point were limited by heavy equipment and fencing. The property is set in an industrial area of East Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building

*P4. Resources Present: ☑ Building ☐ Structure Y Object Y Site ☐ District Y Element of District Y Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) Buildings 1 (left, center) and 3 (right), view south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic Y Prehistoric
Y Both
Circa 1967 (NETRonline.com 2022)

*P7. Owner and Address:
Beth Anne Griffin Latta
119 North Crescent Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: YNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
YArchaeological Record YDistrict Record YLinear Feature Record YMilling Station Record YRock Art Record
YArtifact Record YPhotograph Record Y Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 214 South Cluff Avenue (Resource ID 10) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 214 South Cluff Avenue
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** N/A

***B6. Construction History:** Buildings 1, 2, and 3 constructed circa 1967 (sometime between 1957 and 1967 based on aerials) (NETROnline 2022). Based on aerial images and visual observation, the buildings appear to be unaltered. Buildings 4 and 5 were built circa 2005 and circa 1993, respectively, at the south end of the parcel (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Industrial development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 214 South Cluff Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet any of the significance criteria necessary for eligibility for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

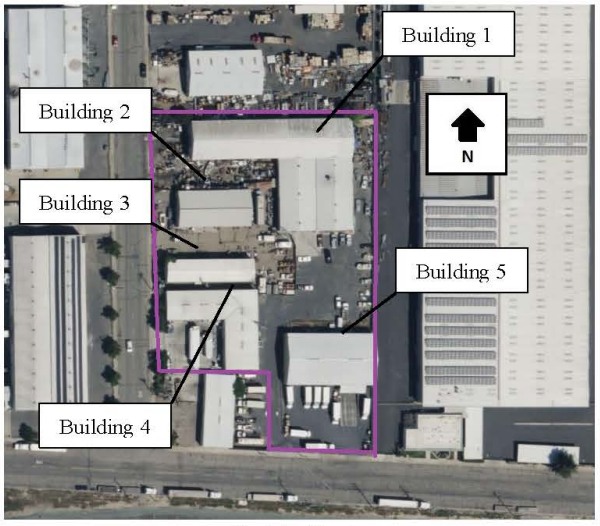
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 214 South Cluff Avenue is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

214 South Cluff Avenue

The property at 214 South Cluff Avenue is currently owned by Beth Anne Griffin Latta and appears to be an industrial commercial business. Tax assessor records show the last deed transaction of the property dating to November 5, 2014. A 1911 county atlas shows the west side of the parcel was owned by J.A. Pope, and the east side of the parcel did not appear to have an owner (historicmapworks.com 2023). According to the historic aerials, Buildings 1, 2, and 3 were constructed sometime between 1957 and 1967 based on aerials. They appear to be unaltered. Buildings 4 and 5 were built circa 2005 and 1993, respectively, at the south end of the parcel. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no direct associations with events or trends important to history. Research did not reveal that the business has played a pivotal role in the growth and development of Lodi or in spurring Lodi's overall industrial development. Lodi was founded in 1869, almost a century prior to the property, and other industrial enterprises existed in the town prior to the subject property's construction. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that J.A. Pope made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. Buildings 1, 2, and 3 are utilitarian in design and are not demonstrative of any popular architectural style common to commercial or industrial properties from their period of construction, such as New Formalism or the International Style. Other mid-century industrial properties with a similar appearance and materials exist in Lodi and San Joaquin County. The subject property does not possess high artistic value or represent a design or engineering achievement. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. Resources comprising the property at 214 South Cluff Avenue appear to have remained the same throughout their history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Buildings 1, 2, and 3 appear to be unaltered from their period of construction. Buildings 4 and 5 were built on the south side of the parcel within the past 30 years and do not the relationship of Building 1, 2, and 3 to one another. Therefore, the property retains its overall integrity of design.

Setting is the physical environment of a historic property. When Buildings 1, 2, and 3 were built by 1967, aerials show the surrounding area included the railroad alignment and agricultural land. Although these uses still remain, the industrial and residential population of the surrounding area has greatly increased, which has diminished the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. Buildings 1, 2, and 3 appear to be unaltered from their period of construction. Buildings 4 and 5 utilize the same materials as the historic-era buildings. Therefore, the property retains integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Buildings 1, 2, and 3 appear to be unaltered from their period of construction. The property retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its appearance and character from its period of construction. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of a mid-century industrial property and continues to convey that association.

In conclusion, although it retains integrity, the property at 214 South Cluff Avenue does not appear to possess the necessary significance to be eligible for the CRHR. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

Saint Gobain. 2013. Accessed January 9, 2023. https://www.saint-gobain.com/sites/saint-gobain.com/files/CP_PVC_AN.pdf.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

P5. Photographs (continued)



Buildings 2 (left) and 3 (right), view east (Jacobs 2022).



Buildings 1 (left) and 2 (right), view southeast (Jacobs 2022).

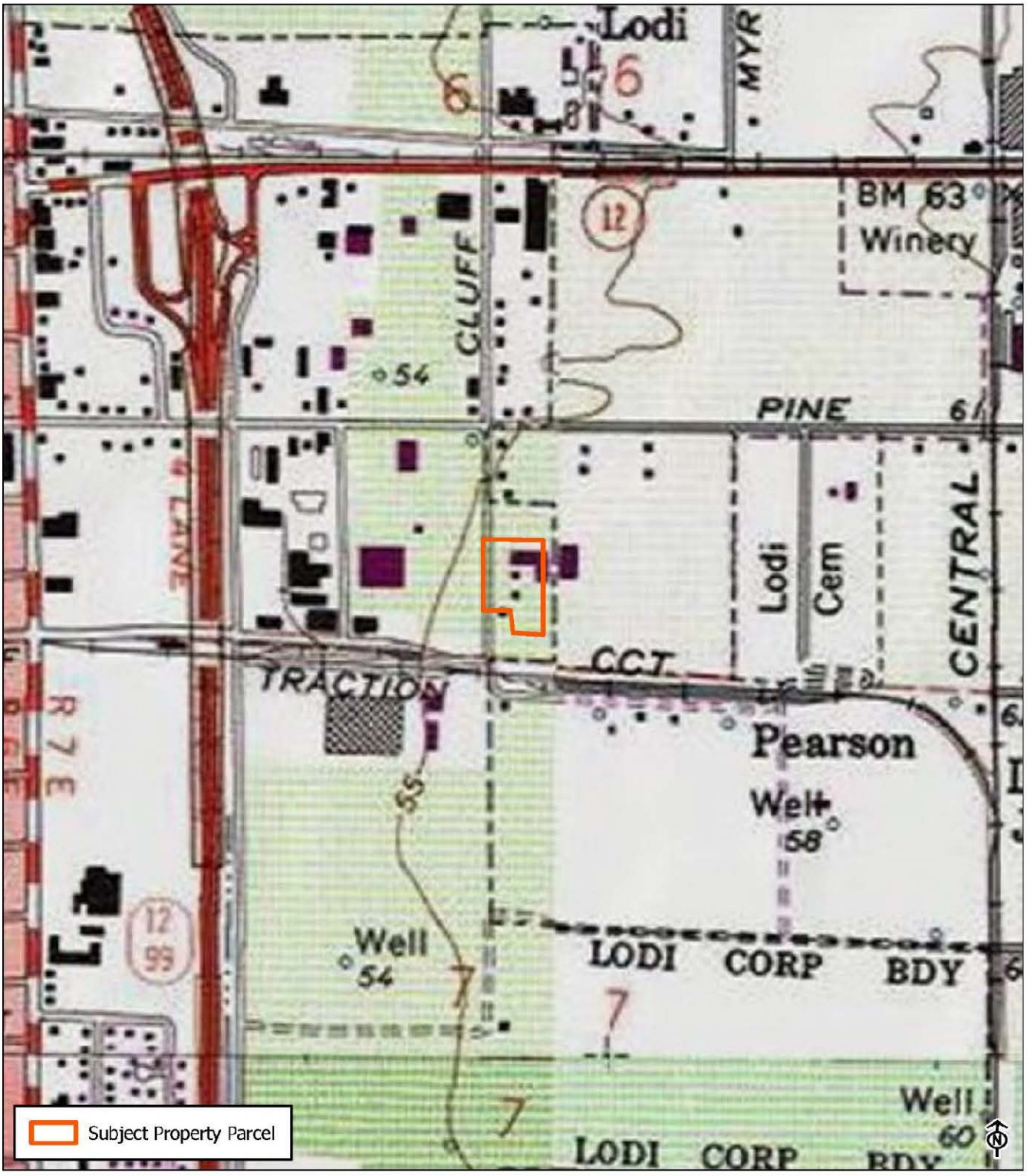
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 214 South Cluff Avenue (Resource ID 10)

***Map Name:** Lodi North 1978 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 6 *Resource Name or #: 1303 East Lodi Avenue, 269 and 283 Commerce Street (Resource ID 11)
P1. Other Identifier: Meehleis Modular Buildings, Inc.
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi North Date 1978 T 3N; R 7E; SE 1/4 of Sec 6; MD B.M.
c. Address 1303 East Lodi Avenue, 269 and 283 Commerce Street, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653319 mE/ 4221892 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 049-090-430, 049-190-150, 049-190-140)

*P3a. Description:
The subject property comprises a small metal industrial building that was enclosed on three sides by a large addition built circa 2002. The historic-era portion of the building is located at 1303 East Lodi Avenue on APN 049-090-430. It is not visible from public vantage points but aerial photographs indicate it has a low-pitched corrugated metal front-gable roof and occupies a rectangular footprint. The property is set in an industrial area of east Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View northwest, December 2022



*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1975 (NETROnline 2022; professional judgement)

*P7. Owner and Address:
William & Carolyn Meehleis
1360 Rivergate Drive
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** 1303 East Lodi Avenue, 269 and 283 Commerce Street (Resource ID 11) ***NRHP Status Code** 6Z
Page 2 **of** 6

B1. Historic Name: N/A
B2. Common Name: 1303 East Lodi Avenue, 269 and 283 Commerce Street (Resource ID 11)
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed sometime between 1967 and 1984 based on aerials (NETROnline 2022). Based on visual observation, the building appears to have been built circa 1975. Original building enclosed on its north, east, and south elevations by an addition built circa 2002 that appears to have increased the building's square footage sixfold. Aerials indicate the historic-age building remains intact, but it is no longer visible due to the addition (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Industrial development
Area San Joaquin County
Period of Significance N/A
Property Type Industrial
Applicable Criteria N/A

This property is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

This property is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

1303 East Lodi Avenue, 269 and 283 Commerce Street

This property is currently owned by William and Carolyn Meehleis and is an industrial commercial enterprise called Meehleis Modular Buildings, Inc., which manufactures modular construction buildings. Tax assessor records show the last deed transaction of the property dating to September 19, 2015. A 1911 county atlas does not indicate the property owner's name (historicmapworks.com 2023). According to the historic aerials, the building was constructed sometime between 1967 and 1984 and was heavily altered by an addition built circa 2002 (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no direct associations with events or trends important to history. Research did not reveal that the business has played a pivotal role in the growth and development of Lodi or in spurring Lodi's overall industrial development. Lodi was founded in 1869, almost a century prior to the property, and other industrial enterprises existed in the town prior to the subject property's construction. Regardless, the historic-era portion of the building is unrecognizable due to the construction of a circa 2002 addition Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. No past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The historic-age portion of the building is enclosed on three sides by an addition built circa 2002, and therefore has lost integrity of design, materials, and workmanship. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Three sides of the historic-era portion of the building were enclosed by an addition circa 2002. As a result, the property has lost its integrity of design.

Setting is the physical environment of a historic property. When the property was originally built the surrounding area included the railroad alignment and agricultural land. Although these uses still remain, the industrial and residential population of the surrounding area has greatly increased, which has diminished the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. Three sides of the historic-era portion of the building were enclosed by an addition circa 2002. Although the new materials (corrugated metal) appear to be consistent with the original building, the extent of the addition has jeopardized the property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Three sides of the historic-era portion of the building were enclosed by an addition circa 2002. As a result, the property has lost its integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property no longer conveys its historic-era appearance or character and therefore does not retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property has been heavily altered due to the construction of a large addition that wraps around three sides of the building. As a result, it would not be recognizable to persons of the past and has lost integrity of association.

In conclusion, the property does not appear to possess sufficient significance or integrity to be eligible for the CRHR. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # 1303 East Lodi Avenue, 269 and 283 Commerce Street (Resource ID 11)

*Map Name: Lodi North 1978 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 8 *Resource Name or #: (Assigned by recorder) 5750 and 5890 East Pine Street (Resource ID 12)
P1. Other Identifier: Lodi Memorial Park Cemetery
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; SE 1/4 of Sec 6; MD B.M.
c. Address 5750 and 5890 East Pine Street, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653830 mE/ 4221930 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-090-260, 049-090-120

*P3a. Description:
This property is the Lodi Memorial Park and Cemetery, an approximately 800,000 square foot cemetery with a Mediterranean-style funeral parlor, a non-historic-age mausoleum (built circa 1993), and a small non-historic-age age storage building (built circa 1984). The funeral parlor has a rectangular footprint and a large double-height entry with a hipped tile roof, arched doorway with large arched transom, and concrete detailing. The remainder of the building has a hipped tile roof and stucco walls and is overgrown with vined plants. There is large flat-roofed extension at the east end of the façade that also is stuccoed and has two skylights. The cemetery is heavily landscaped with mature trees, particularly evergreens and palms. The property is east of an industrial area and west of a agricultural/residential neighborhood to the east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated on this form.

*P3b. Resource Attributes: (List attributes and codes) HP40. Cemetery
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ☑ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1951 (Parcelquest.com 2022)

*P7. Owner and Address:
Lodi Memorial Association
15504 Quail Run Drive
North Potomac, MD 20878

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5750 and 5890 East Pine Street (Resource ID 12) ***NRHP Status Code** 6Z
Page 2 of 8

B1. Historic Name: East Pine Cemetery and East Pine Funeral Home
B2. Common Name: Lodi Memorial Park and Cemetery
B3. Original Use: Cemetery
B4. Present Use: Cemetery
***B5. Architectural Style:** Mediterranean

***B6. Construction History:** Funeral parlor constructed in 1951 (Parcelquest.com 2022). An addition was constructed on the east end of the building circa 1967 (NETRonline 2022). A storage building was added circa 1984 and a mausoleum was added circa 1993. Additional walkways and path were added circa 1993 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** N/A **Area** San Joaquin County
Period of Significance N/A **Property Type** Cemetery
Applicable Criteria N/A
This property is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

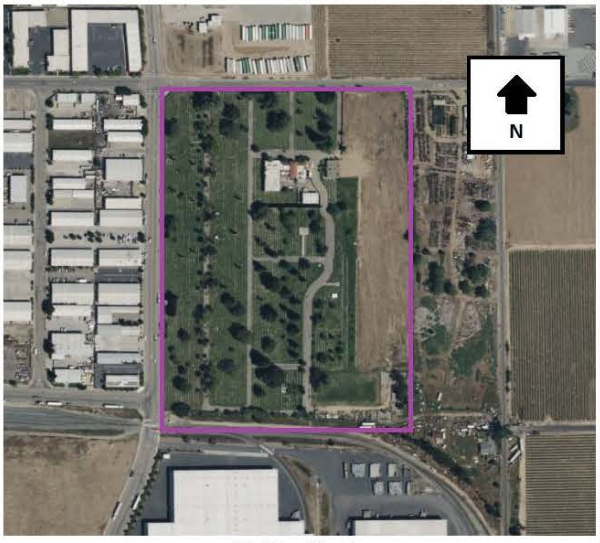
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

This property is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

This increase in transit and the corresponding growth of residents meant several burial grounds, funeral parlors, crematoriums, and other funerary services opened in the Lodi area in the late nineteenth century. Live Oak Cemetery was established between Lodi and Stockton in 1860, and Locke Family Cemetery was established in 1886 (Genealogy Trails 2023). A 1908 USGS Topographic Maps marks the area of the East Pine/Lodi Memorial cemetery as a burial ground, but a 1911 map of San Joaquin County indicates the area as unowned land and marked as "colony" (historicmapworks.com 2023). There appears to be no formal funerary services in Lodi proper until the creation of Cherokee Memorial Park in 1940 and East Pine Funeral Home in 1951. The first advertisements for East Pine Funeral Home, now known as Lodi Memorial Park and Cemetery, appear in the Lodi News-Sentinel in June 1951. The cemetery became known as the Lodi Memorial Park and Cemetery sometime in the late twentieth century.

5750 and 5890 East Pine Street

This property is currently owned by the Lodi Memorial Association, which is based in North Potomac, Maryland. The last real estate transaction on the San Joaquin County Assessor roles dates to April 17, 1989. As detailed above, the area has served as a burial ground

since the early twentieth century and as a formal funeral home since the 1950s. The Lodi Memorial Association was incorporated in 2020. No other information on the association was uncovered during research (California Company Directory 2023).

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no direct associations with events or trends important to history. The cemetery appears to have been used as a burial ground since the early twentieth century. Lodi was founded in 1869, and historic records indicate that other cemeteries and funeral homes served individuals in Lodi prior to the subject property. Research did not uncover that this cemetery played a pivotal role in the development of the city or has a direct association with any important events or trends. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The property is currently owned by the Lodi Memorial Association. Research into other previous owners of the land did not uncover any information. Research did not uncover any direct and important associations with any individuals from any iteration of the cemetery's ownership. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this funeral parlor on the property is not an important example of Mediterranean-style architecture. While the building has some elements related to the style, such as a tile roof, stucco siding, and arched entryway, it has been altered. The building has had an addition circa 1967, and it appears most window voids are filled in. Other intact examples of this style with more character-defining features exist. The property also is not distinguished by its landscape or cemetery design. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. Resources comprising the property have not been moved. Therefore, the property's integrity of location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the funeral parlor building appears mainly intact, but heavy coverage by brush and vines has obscured most elevations from view. The landscape design also appears to be largely intact. Therefore, the property retains integrity of design.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the CCTR alignment and agricultural land. Although these uses still remain, the industrial and residential population of the surrounding area has greatly increased, which has diminished the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials appear intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Despite alterations, workmanship appears to be intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its character as a funeral parlor set within a cemetery. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of a twentieth-century cemetery with a funeral parlor constructed in the 1950s. It would be recognizable to persons from the past conveys its integrity of association.

In conclusion, the property does not possess the significance or integrity necessary for listing in the CRHR. Therefore, the property is not considered a historical resource for the purposes of CEQA.

B12. References (continued)

California Company Directory. 2023. "Lodi Memorial Association". https://ca.ltddir.com/companies/lodi-memorial-association-inc/. Accessed February 23, 2023.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Genealogy Trails. 2023. "San Joaquin County California Cemeteries". http://genealogytrails.com/cal/sjoaquin/cemeteries/cemindex.html. Accessed February 23, 2023.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

P5. Photographs (continued)



Funeral parlor, view south (Jacobs 2022).



Funeral parlor, view east (Jacobs 2022).



Cemetery, view south (Jacobs 2022).

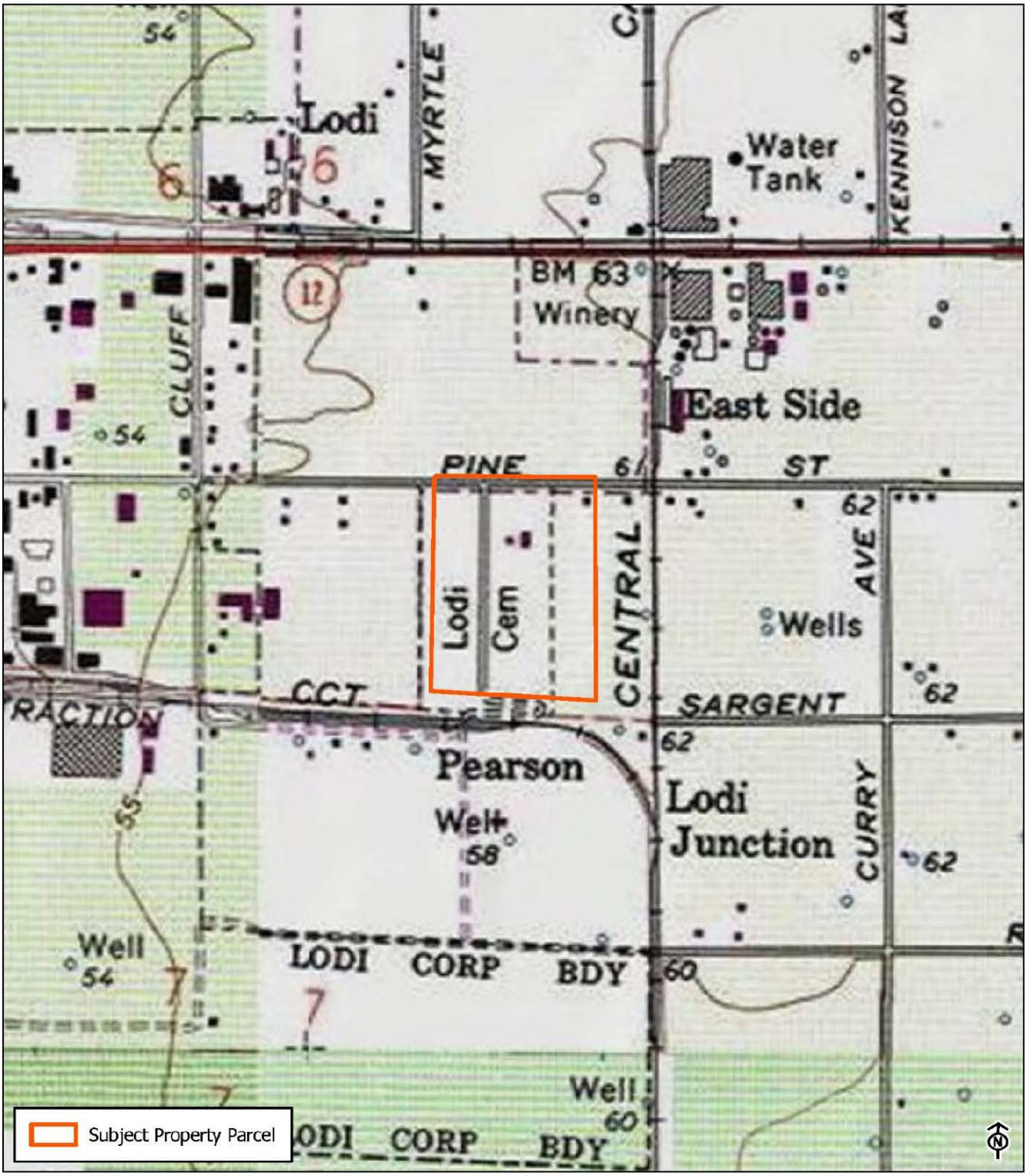
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** 5750 and 5890 East Pine Street (Resource ID 12)

***Map Name:** Lockeford 1980 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 1560 East Pine Street (Resource ID 13)
P1. Other Identifier: Pride Landscape
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; SE 1/4 of Sec 6; MD B.M.
c. Address 1560 East Pine Street, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653919 mE/ 4221934 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 049-090-130
*P3a. Description:
This property comprises a one story, wood-frame outbuilding with a rectangular footprint and front gable roof that is clad in metal. Its exterior is clad in clapboard with a small vent in the apex of the gable end. Window openings are covered with wood and the door at the east façade appears to be a replacement. The property is set at the far edge of the industrial/agricultural section of East Lodi, east of Lodi Cemetery. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 4. Ancillary Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
Circa 1908 (NETROnline 2022)

*P7. Owner and Address:
Richard S. Galtine
901 South Cherokee Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 1560 East Pine Street (Resource ID 13) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 1560 East Pine Street
B3. Original Use: Agricultural
B4. Present Use: Agricultural/Commercial
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed circa 1908. The building formerly was part of a large farm complex, but other resources comprising the complex were destroyed circa 2014 (NETROnline 2022). The windows on the building were boarded at an unknown date.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Agricultural
Applicable Criteria N/A
The property at 1560 East Pine Street is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

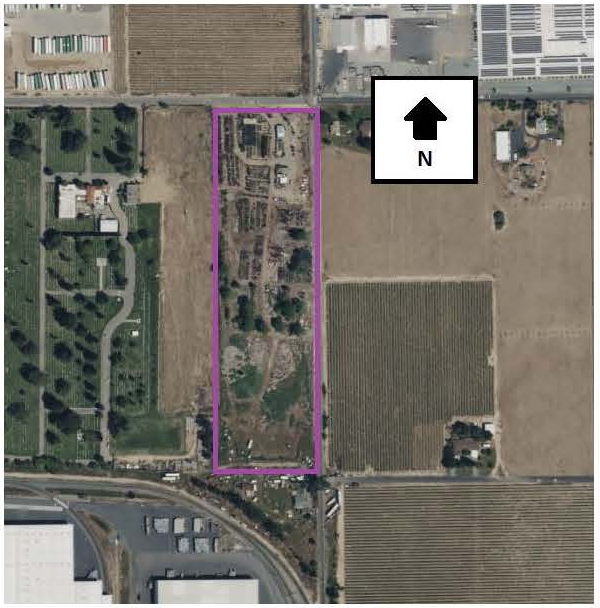
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 1560 East Pine Street is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

1560 East Pine Street

The property at 1560 East Pine Street is currently owned by Richard S. Galtine and is used as part of a landscaping business. Tax assessor records show the last deed transaction of the property dating to October 5, 2015. A 1911 county atlas shows the property was part of a cluster of small parcels, likely for sale, with no owner indicated (historicmapworks.com 2023). The earliest aerial photograph for the area dates from 1957 and shows the area surrounding the property as agricultural with some scattered residential and agricultural properties (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The building has been modified by wooden covers on the window openings, but otherwise remains intact. The other resources comprising this former farm complex were destroyed circa 2014 (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to the agricultural development of Lodi; however, as an outbuilding, it does not distinctly convey this association. Other resources comprising part of the former farm complex have been demolished, divorcing the remaining building from its original context. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. Therefore, the property at 1560 East Pine Street is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. No past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks distinctive characteristics of the any particular style, serving as a fairly utilitarian outbuilding. This front-gabled-roofed house has elements of the Craftsman style such as exposed rafter tails supporting its broad overhanging roof, however, this relatively plain outbuilding has covered or removed windows, and does not have enough characteristics typical of Craftsman buildings to represent the style well. Therefore, the property at 1560 East Pine Street is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 3, this property is not an important example of a type, style, period, or method of construction, nor does it possess high artistic value or represent a design or engineering achievement. The property is an altered example of an agricultural outbuilding, a property type found throughout Lodi and San Joaquin County. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 1560 East Pine Street appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Covering the windows has diminished the property's integrity of design. Further, demolition of the remaining resources comprising the former farm complex within the past 10 years has impacted its design.

Setting is the physical environment of a historic property. Historical photographs from 1957 show the property retains its residential/agricultural surroundings. However, the destruction of the other farm resources on the parcel within the past 10 years have compromised the property's integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Covering the windows which has diminished the property's integrity of materials slightly.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Covering the windows which has diminished the property's integrity of workmanship slightly.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Destruction of the other resources comprising part of this former farm complex have jeopardized the remaining building's ability to convey its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Destruction of the other resources within the past 10 years have jeopardized the remaining building's ability to convey its association as an outbuilding forming part of a larger farm complex.

In conclusion, the property at 1560 East Pine Street does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

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Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



1560 E Pine Street, view north (Jacobs 2022).

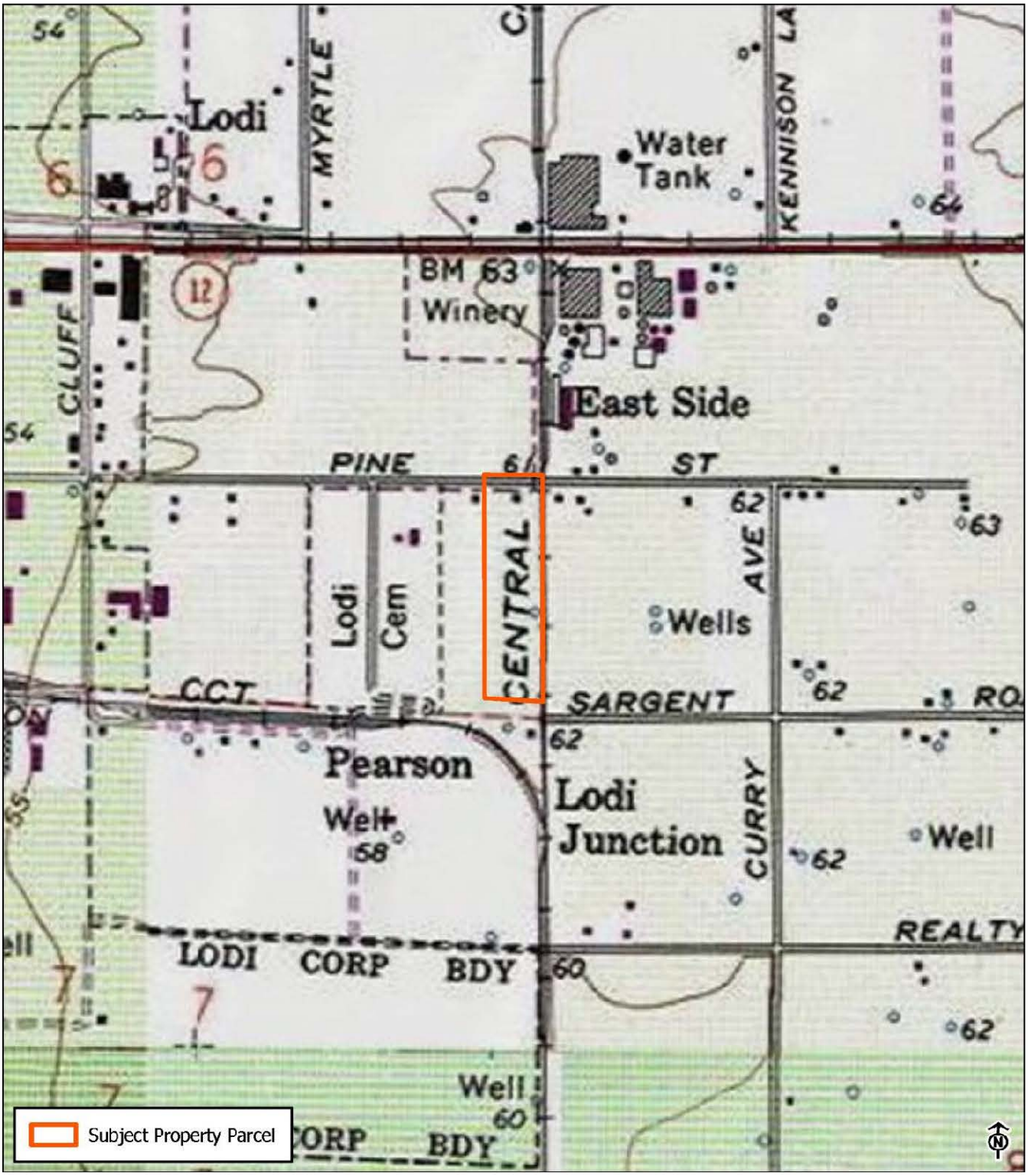
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 1560 East Pine Street (Resource ID 13)

*Map Name: Lockeford 1980 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 5990 East Sargent Road (Resource ID 14)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; NE 1/4 of Sec 7; MD B.M.
c. Address 5990 East Sargent Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653933 mE/ 4221708 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-310-050

*P3a. Description:
The subject property consists of a Craftsman-style residence, detached two-car garage, and outbuilding. The residence is one story in height with a jerkinhead roof and stucco exterior. Windows appear to be wood units. The garage has a front-gable roof, stucco exterior, and two metal garage doors. The outbuilding has a rectangular footprint and gable roof based on aerials. The property is only partially visible from public vantage points. It is set in an industrial/agricultural area east of Lodi and is bordered to the east and south by the former Central California Traction Railroad alignment. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property, HP4. Ancillary building
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View northwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1928 (Parcelquest.com 2022)

*P7. Owner and Address:
Sharon Meyers
1510 Smith Grade Road
Bonny Doon, CA 95060

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5990 East Sargent Road (Resource ID 14) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 5990 East Sargent Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman elements

***B6. Construction History:** Residence constructed in 1928 (Parcelquest.com 2022). Aerial imagery shows the two-car garage was extant by 1957 and that the outbuilding was constructed sometime 1967 and 1984 (NETROnline 2022). The residence has been modified through the sheathing of the exterior of stucco and new roofing materials. The garage has replacement metal roll up doors, stucco sheathing, and roofing materials.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 5990 East Sargent Road is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

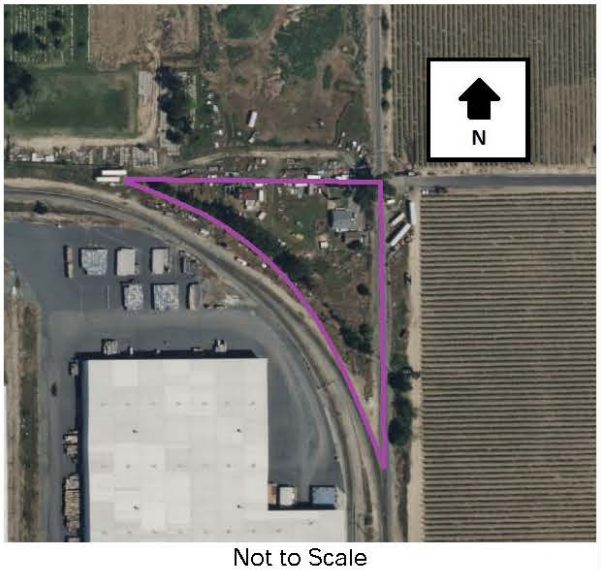
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

B10. Significance (continued)

Historic Context

The property at 5990 East Sargent Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

5990 East Sargent Road

The property at 5990 East Sargent Road is currently owned by Sharon Meyers. Tax assessor records show the last deed transaction of the property dating to May 14, 2008. A 1911 county atlas does not indicate the name of the property owner (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners (NETROnline 2022).

This property is previously unrecorded and unevaluated. The residence has been modified with new roofing and siding materials, and the detached garage has been modified with new garage doors, siding, and roofing materials. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. No past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Craftsman style such as its jerkinhead roof, however, it has been altered through the installation of replacement materials. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 5990 East Sargent Road appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The residence has been modified with new roofing and siding materials, and the detached garage has been modified with new garage doors, siding, and roofing materials. These changed have impacted the property's integrity of design.

Setting is the physical environment of a historic property. When the property was originally built the surrounding area included the railroad alignment and agricultural land. Although these uses still remain, the industrial property built to the southwest of the property has diminished its integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The residence has been modified with new roofing and siding materials, and the detached garage has been modified with new garage doors, siding, and roofing materials. These changed have impacted the property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The residence has been modified with new roofing and siding materials, and the detached garage has been modified with new garage doors, siding, and roofing materials. These changed have impacted the property's integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property overall it continues to convey the character of a 1920s rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property retains its association as a 1920s rural residential property.

In conclusion, the property at 5990 East Sargent Road does not meet any of the CRHR criteria and has diminished integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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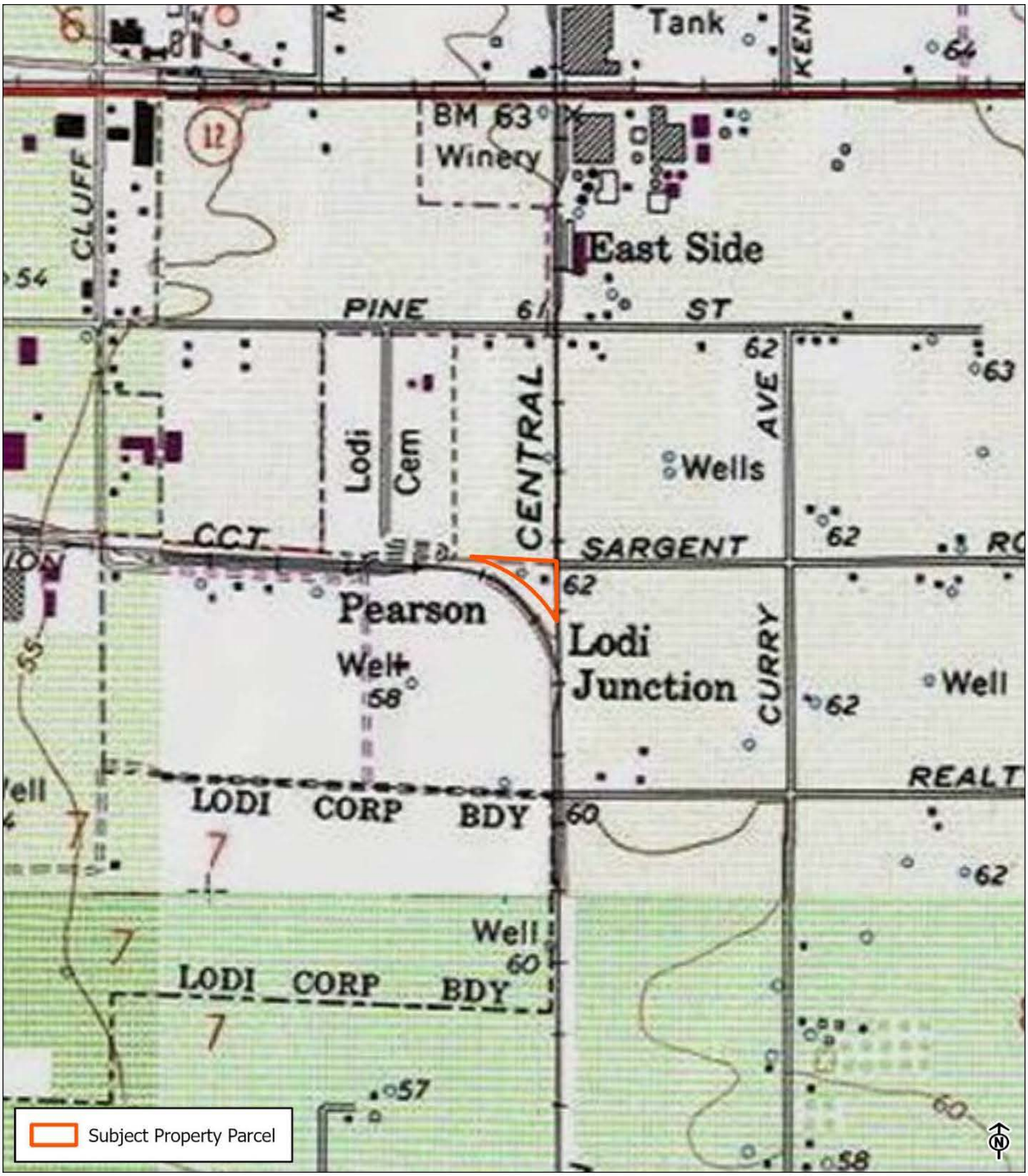
State of California - Natural Resources Agency	Primary #
DEPARTMENT OF PARKS AND RECREATION	HRI #
LOCATION MAP	Trinomial

Page 3 **of** 6 ***Resource Name or #** (Assigned by recorder) 5990 East Sargent Road (Resource ID 14)

***Map Name:** Lockeford 1980 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 6195 East Sargent Road (Resource ID 15)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; SW 1/4 of Sec 5; MD B.M.
c. Address 6195 East Sargent Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654081 mE/ 4221850 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number : 049-111-020

*P3a. Description:
This property consists of a one-story Ranch-style residence and corrugated metal outbuilding that appears to be used as a workshop. The residence has a medium-pitch composite shingle hipped roof, brick and vinyl siding, vinyl windows, and a two-car garage with metal roll up door. The garage is accessed by a gravel driveway. The residence is heavily obscured from the public vantage point due to trees and brush. The outbuilding is one-story with corrugated metal roof and siding, a front-gable roof, and garage door facing Sargent Road to the south. It features a small aluminum window on the south elevation. The parcel is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1970 (Parcelquest.com 2022)

*P7. Owner and Address:
Matthew & Megan Manna
PO Box 247
Acampo, CA 95220

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6195 East Sargent Road (Resource ID 15) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 6195 East Sargent Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Residence constructed in 1970 (Parcelquest.com 2022). The outbuilding dates from sometime between 1970 and 1984 (NETROnline 2022).The residence has replacement vinyl windows, new roofing, and a new garage door installed within the past circa 30 years.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 6195 East Sargent Road is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

B10. Significance (continued)

Historic Context

The property at 6195 East Sargent Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

6195 East Sargent Road

The property at 6195 East Sargent Road is currently owned by Matthew & Megan Manna. Tax assessor records show the last deed transaction of the property dating to April 2, 2013. A 1911 county atlas shows the parcel was owned by P. Sierrers (historicmapworks.com 2023). The earliest aerial photograph for the area dates from 1957 and shows the area surrounding the property as agricultural, with scattered residential and agricultural development. By the 1980s the area has more residential development on large parcels (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence appears to have been modified with replacement vinyl windows, new roofing, and a new garage door. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that P. Sierrers made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Ranch style such as its low massing, hipped roof, and one-story height, however, it has been altered through the installation of replacement materials. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6195 East Sargent Road appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. This property has been modified with new windows, new roofing, and replacement garage doors, which has slightly diminished its integrity of design.

Setting is the physical environment of a historic property. The property retains its agricultural surrounding and therefore its integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has been modified with new windows, new roofing, and replacement garage doors, which has slightly diminished its integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. This property has been modified with new windows, new roofing, and replacement garage doors, which has slightly diminished its integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey its character and appearance from its period of construction. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property would be recognizable to persons from the past and retains its association as a 1970s rural Ranch residence.

In conclusion, although it retains integrity, the property at 6195 East Sargent Road does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



Outbuilding, view northwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 6195 East Sargent Road (Resource ID 15)

*Map Name: Lockeford 1980 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 6058 East Pine Street (Resource ID 16)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; SW 1/4 of Sec 5; MD B.M.
c. Address 6058 East Pine Street, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654075 mE/ 4221989 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-111-010

*P3a. Description:
This property consists of two residences and an outbuilding that appears to be used as a workshop/garage. Residence 1 and the outbuilding date from circa 1908 and have brick exteriors. The residence is one-story with an irregular footprint and a moderate-pitch hipped roof with multiple brick chimneys. It displays Minimal Traditional elements. The façade has a small, three-step brick entry porch with metal railings and an unglazed door. The outbuilding is one-story with a rectangular footprint, side-gable roof, metal garage door, and aluminum window. The property is in an industrial/residential area of Lodi, west of a segment of the Central California Traction Central Valley Line. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form. SEE CONTINUATION SHEET.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property, HP4. Ancillary Building
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ☐ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1908-1940 (NETROnline 2022)

*P7. Owner and Address:
Anna May Vollbrecht
6058 East Pine Street
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6058 East Pine Street (Resource ID 16) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 6058 East Pine Street
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional elements

***B6. Construction History:** Residence 1 and outbuilding constructed circa 1908, Residence 2 constructed circa 1940. Residence 1 appears to have replacement windows, doors, and roofing material. The outbuilding has replacement garage door and roofing material. Residence 2 appears to have replacement roofing material as well as a shed-roof porch addition dating from sometime between 1967 and 1984 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 6058 East Pine Street is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity. Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section P3a. Description (continued)

Residence 2 was built circa 1940 and displays Minimal Traditional elements. It is a one-story building with a front-gable roof and aa brick and board and batten exterior. The windows are obscured by dark screens. The entrance is covered by a shed-roof porch with brick columns. The porch was added sometime between 1967 and 1984 (NETROnline 2023). The front door set on the porch is obscured by a security screen. There are several non-historic age outbuildings on the parcel dating from between 1993 and 2014 (NETROnline 2023).

B10. Significance (continued)

Historic Context

The property at 6058 East Pine Street is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its

wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

6058 East Pine Street

The property at 6058 East Pine Street is currently owned by Anna May Vollbrecht. Tax assessor records show the last deed transaction of the property dating to July 2, 1973. A 1911 county atlas shows ownership of the parcel was split between P. Sierrers and Dennis Moran (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. The area directly across from the parcel was turned into an industrial or commercial campus circa 2002 (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. Residence 1 appears to have replacement windows, doors, and roof. The outbuilding has a replacement garage door and roofing material. Residence 2 appears to have replacement roofing, as well as a shed-roof porch addition from circa 1984 (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that P. Sierrers or Dennis Moran made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. Additionally, research did not uncover any direct associations with important designers or engineers. Residence 2 has elements of the Minimal Traditional style such as its compact footprint, gable roof, and one-story height, however, it has been altered through the installation of replacement materials and construction of a porch. Other examples of resources with more character-defining features of this style exist. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6058 East Pine Street Road appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified with new windows, new roofing, and replacement garage doors, as well as non-historic-era outbuildings.

Setting is the physical environment of a historic property. The property's integrity of setting has been lost due to the construction of a large industrial development across East Pine Street within the past 30 years.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has been modified by the new windows, roofing material, and garage doors, which has diminished the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. This property has been modified by the new windows, roofing material, and garage doors, which has diminished the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Changes have occurred to the setting of the property, most notably including the industrial development across East Pine Street. This combined with replacement materials limits the ability of the two residences and the outbuilding to convey their character from their period of construction. Therefore, the property has diminished integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The cumulative effect of replacement materials and changes to the setting are such that the property is no longer able to convey its association as rural residential property from the first half of the twentieth century.

In conclusion, the property at 6058 East Pine Street does not meet any of the CRHR criteria and lacks integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

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No author. 1890. *An Illustrated History of San Joaquin County, California.* Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

Section P5. Photographs (continued)



Residence 2, view southeast (Jacobs 2022).



From left to right: outbuilding and Residence 1, view southwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 6058 East Pine Street (Resource ID 16)

*Map Name: Lockeford 1980 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 6250 East Pine Street (Resource ID 17)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; SW 1/4 of Sec 5; MD B.M.
c. Address 6250 East Pine Street, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654222 mE/ 4221945 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-111-030

*P3a. Description:
This property consists of a one-story cottage with Queen Anne elements, historic-era detached garage and dilapidated outbuilding to the southeast and south, and a modern-era outbuilding that appears to be used as a workshop to the southwest. The residence has a steeply pitched hipped roof with a brick chimney set on the slope. A front-gable projection is at the west end of the north façade that features a band of wood windows with decorative divided lights and a glazed wood door. The door is accessed by steps and is sheltered by a shed-roof portico addition. There appear to be a mix of wood and vinyl windows at other elevations. The exterior appears to be painted brick or textured stucco. The property is set in a rural/industrial area east of Lodi with a large modern industrial complex to the north. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property, HP 4. Ancillary Building
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ϒ Prehistoric
ϒ Both
1928 (Parcelquest.com 2022)

*P7. Owner and Address:
Jean Morimoto
309 Tioga Drive
Lodi, CA 95242

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6250 East Pine Street (Resource ID 17) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 6250 East Pine Street
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Queen Anne

***B6. Construction History:** Residence constructed in 1928 (Parcelquest.com 2022). USGS topographic maps and aerials indicate the dilapidated outbuilding and garage were constructed sometime between 1928 and 1942 (NETROnline 2022). The third outbuilding, which appears to be used as a workshop, was constructed circa 2002 (NETROnline 2022). The residence has replacement roofing material and vinyl windows at side elevations. These replacement materials appear to have been installed within the last circa 30 years.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** N/A
Applicable Criteria N/A
The property at 6250 East Pine Street is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 6250 East Pine Street is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

6250 East Pine Street

The property at 6250 East Pine Street is currently owned by Jean Morimoto. Tax assessor records show the last deed transaction of the property dating to January 27, 2014. A 1911 county atlas shows the property was then owned by Dennis Moran (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. By the 1980s the area had more residential development on large parcels (NETROnline 2022). The 1968 Lodi Directory indicated that Jean Morimoto and her father, Kiyoshi Morimoto, a farmer, resided at 6250 East Pine Street at that time (Polk's Lodi City Directory 1968). A 2007 obituary for Jean's mother, Yoshiko, indicates Kiyoshi and Yoshiko had resided in Lodi before their war-time internment at Tule Lake from 1942-1945, although it is unclear if they resided at the subject property during this time (Legacy.com 2007).

This property is previously unrecorded and unevaluated. It appears to have been modified through the installation of replacement vinyl windows at side elevation and new roofing on the residence, as well as a circa 2002 outbuilding. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Further, although the Morimoto family have been long-time owners of the property, research did not indicate this property demonstrates any important events or trends associated with Japanese community in Lodi or San Joaquin County. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Dennis Moran or members of the Morimoto family made any important contributions to history. No other past owners or renters were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. Additionally, research did not uncover any direct associations with important designers or engineers. The residence reflects elements of the Queen Anne style through its asymmetrical massing and decorative divided window lights, however, other examples of resources with more character-defining features of this style exist. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6250 East Pine Street appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The property retains integrity of design despite some replacement windows and non-original roofing material at the residence and the construction of a modern-era outbuilding circa 2002.

Setting is the physical environment of a historic property. Integrity of setting has been lost due to large-scale industrial development directly across East Pine Road within the past 30 years, which marks a departure from the property's agricultural surroundings.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property retains integrity of materials despite some replacement windows and non-original roofing material at the residence and the construction of a modern-era outbuilding circa 2002.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property retains integrity of workmanship despite some replacement windows and non-original roofing material at the residence.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property and its setting, overall it continues to convey the character of a 1920s rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property retains its association as a 1920s rural residential property and would be recognizable to persons from the past.

In conclusion, although it appears to retain integrity, the property at 6250 East Pine Street does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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P5. Photographs (continued)



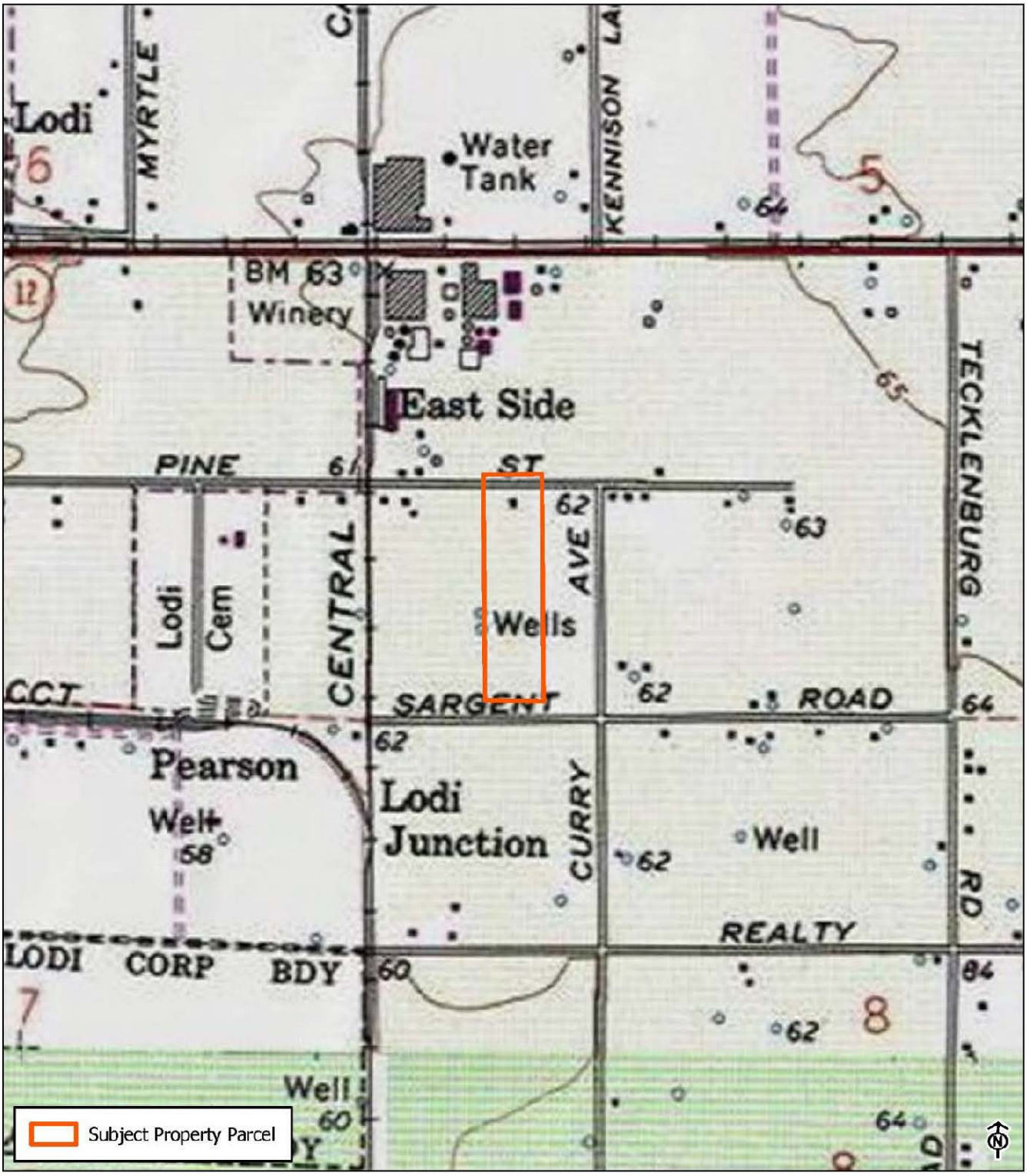
Detached historic-era garage and residence, view southwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 6250 East Pine Street (Resource ID 17)

*Map Name: Lockeford 1980 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 16463 North Curry Avenue (Resource ID 18)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; NW 1/4 of Sec 8; MD B.M.
c. Address 16463 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654201 mE/ 4221547 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-112-010

*P3a. Description:
This property consists of an outbuilding that appears to be used as a workshop and is set in a vineyard. It is not visible from public vantage points as it is located approximately 750 feet from North Curry Avenue and is surrounded by mature trees. Based on limited views and aerial images, it is a one-story building with a rectangular footprint and low-pitch front-gable roof. The Central California Traction Railroad Central Valley line extends west of the parcel. Opposite the railroad tracks is modern-era industrial development. There appears to be an abandoned orchard at the east side of the parcel, facing North Curry Avenue. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 4. Ancillary Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Sometime between 1942 and 1957 (NETROnline 2022)

*P7. Owner and Address:
Melinda S. Barbera
2204 Rockwell Drive
Davis, CA 95618

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 16463 North Curry Avenue (Resource ID 18) ***NRHP Status Code** 6Z
Page 2 **of** 6

B1. Historic Name: N/A
B2. Common Name: 16463 North Curry Avenue
B3. Original Use: Agricultural
B4. Present Use: Agricultural
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed sometime between 1942 and 1957 (NETROnline 2022). No additions have occurred based on aerials. Other changes are unknown due to limited views from public vantage points.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Agricultural
Applicable Criteria N/A
The property at 16463 North Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet any of the significance criteria necessary for eligibility for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

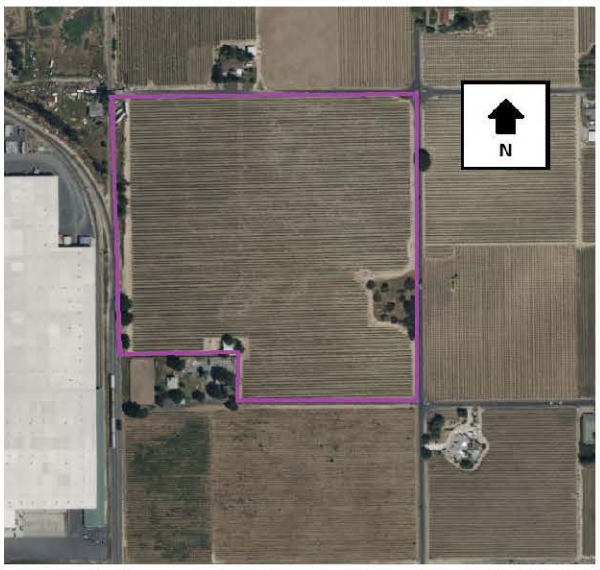
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section 10B. Significance (continued)

Historic Context

The property at 16463 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

16463 North Curry Avenue

The property at 16463 North Curry Avenue is currently owned by Melinda S. Barbera. Tax assessor records show the last deed transaction of the property dating to June 6, 2013. A 1911 county atlas shows the parcel was owned by Mrs. C.N. Cursy (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. By the 1990s the area to the west of the parcel was characterized by industrial development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. Based on aerials on review of aerials, no addition have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. Other vineyards exist in Lodi and San Joaquin County. Research did not uncover that this property was the first vineyard, or that is has historically been an important business in the area. Additionally, it does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Mrs. C.N. Cursy made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. Additionally, research did not uncover any direct associations with important designers or engineers. Based on limited views and review of aerials, it appears to be a small, utilitarian outbuilding associated with the surrounding vineyard. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 16463 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Based on review of aerials, no additions have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of design.

Setting is the physical environment of a historic property. Integrity of setting has been diminished due to large-scale industrial development to the west within the past 30 years, which marks a departure from the property's agricultural surroundings.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Based on review of aerials, no additions have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Based on review of aerials, no additions have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Based on review of aerials, no additions have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Based on aerials on review of aerials, no additions have occurred at the building; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of association.

In conclusion, the property at 16463 North Curry Avenue does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

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Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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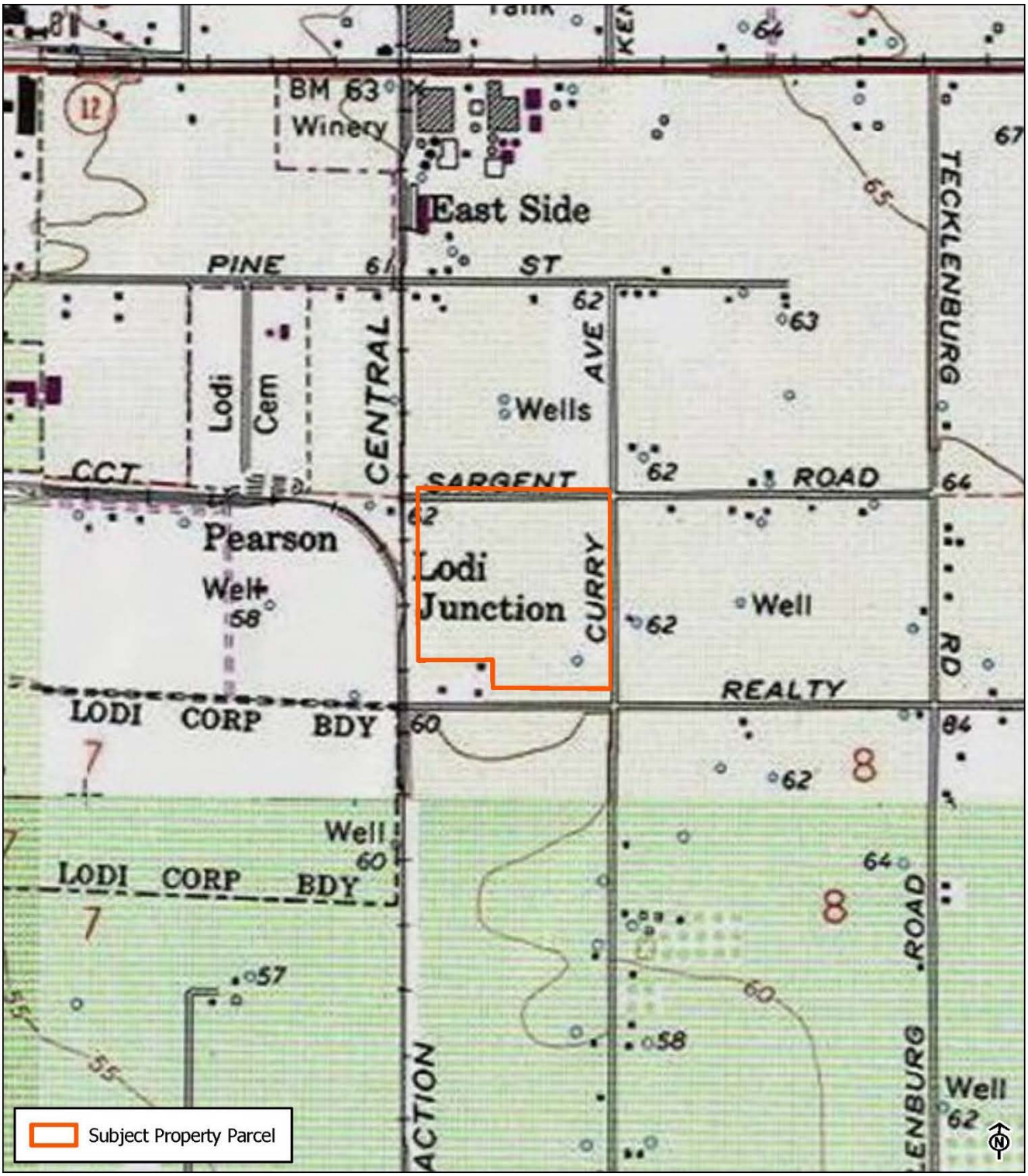
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 16463 North Curry Avenue (Resource ID 18)

***Map Name:** Lockeford 1980 **Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 16141 North Curry Avenue (Resource ID 19)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lockeford Date 1980 T 3N; R 7E; NW 1/4 of Sec 8; MD B.M.
c. Address 16141 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654123 mE/ 4221581 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-112-020

*P3a. Description:

This property is a residential farm complex that is not visible from public vantage points. The property is located 1,000 feet down a private, locked driveway and is obscured behind by privacy fencing, hedges, and a vineyard. Aerial images indicate there are two historic-era residences; a small outbuilding that appears to be a historic-era garage or shop; and a modern-era outbuilding that appears to be a garage or shop at the north of the parcel. The property is set in a vineyard, surrounded by mature trees. The Central California Traction Railroad Central Valley line runs west of the parcel. Opposite the railroad tracks is modern-era industrial development. The residence nearest North Curry Avenue appears to have an irregular footprint with a low pitch side-gable roof based on limited views. The residence at rear of the property was not visible from public vantage points or Google Streetview but appears to have a square footprint and hipped roof. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single Family Property, HP 33. Farm
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ☐ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1921 (Parcelquest.com 2022)

*P7. Owner and Address:
Richard S. Galantine
901 South Cherokee Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 16141 North Curry Avenue (Resource ID 19) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 16141 North Curry Avenue
B3. Original Use: Residential, Agricultural
B4. Present Use: Residential, Agricultural
***B5. Architectural Style:** N/A

***B6. Construction History:** Residence constructed 1921 based on the San Joaquin County Assessor; however, there are two residences on the parcel and the assessor does not identify which one was constructed in 1921. The earliest available USGS topographic map of the area from 1942 shows the two residences on the parcel. Both buildings are visible in the earliest available historic aerial of the area in 1957. Additionally, the historic-era outbuilding that appears to be used as a garage or shop is also visible in the 1957 aerial. The residences and outbuilding are not visible from public vantage points, but based on review of aerial imagery, it appears no additions have occurred to the resources since the 1957 aerial. Other changes are unknown. The property changed from row crops to viticulture circa 1998 based on aerials. A modern-era outbuilding that appears to be a garage or shop was built at the north of the parcel circa 2018 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential and Agricultural Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential; agricultural
Applicable Criteria N/A
The property at 16141 North Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance. Therefore, the property is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 16141 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

16141 North Curry Avenue

The property at 16141 North Curry Avenue is currently owned by Richard S. Galantine. Tax assessor records show the last deed transaction of the property dating to June 19, 2009. A 1911 county atlas shows the parcel was owned by Mrs. C.N. Cursy (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. By the 1990s, the area to the west of the parcel was characterized by industrial development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. Based on aerials, no additions have occurred at the historic-era residences and outbuildings; however, other changes could not be assessed due to no views from public vantage points. An outbuilding was added at the north end of the parcel circa 2018. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. Research also did not uncover that this property has historically been an important business in the area. Additionally, it does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Mrs. C.N. Cursy made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, research did not uncover any direct associations with important designers or engineers. Based on review of aerials, the property does not appear to embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. However, no views of the property were available from public vantage points. Therefore, the property does not appear to be eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 16141 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Based on review of aerials, no additions have occurred to the historic-era resources on the property; however, other changes could not be assessed due to limited views from public vantage points. An outbuilding was added circa 2018. Based on this limited inspection, the property is assumed to retain integrity of design.

Setting is the physical environment of a historic property. Integrity of setting has been diminished due to large-scale industrial development to the west within the past 30 years, which marks a departure from the property's agricultural surroundings.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Based on review of aerials, no additions have occurred to the historic-era resources on the property; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Based on review of aerials, no additions have occurred to the historic-era resources on the property; however, other

changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Based on review of aerials, no additions have occurred to the historic-era resources on the property; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Based on review of aerials, no additions have occurred to the historic-era resources on the property; however, other changes could not be assessed due to limited views from public vantage points. Based on this limited inspection, the property is assumed to retain integrity of association.

In conclusion, the property at 16141 North Curry Avenue is not CRHR eligible due to a lack of significance. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

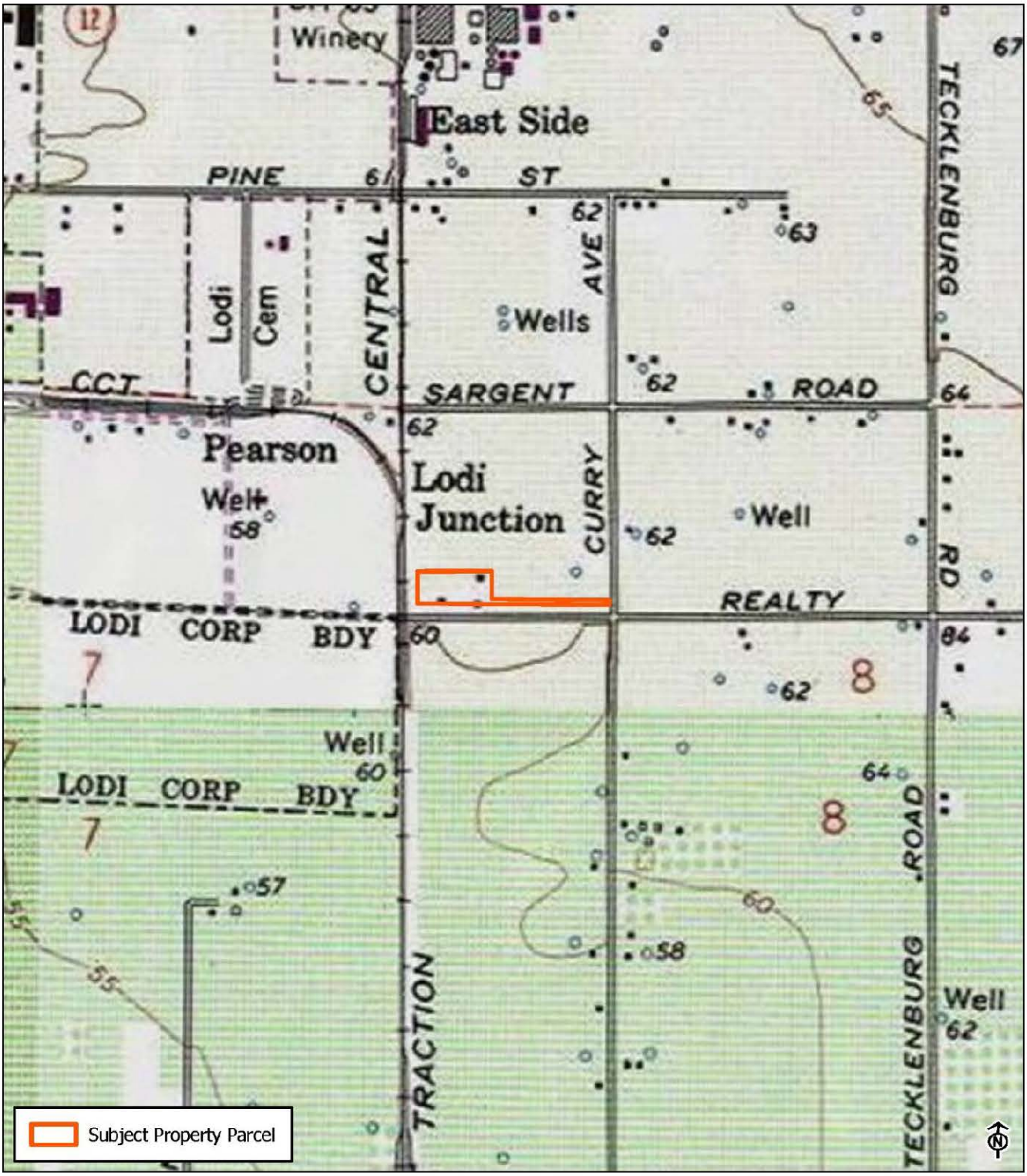
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 16141 North Curry Avenue (Resource ID 19)

*Map Name: Lockeford 1980 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 15661 North Curry Avenue (Resource ID 20)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 8; MD B.M.
c. Address 15661 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654217 mE/ 4220833 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-230-010

*P3a. Description:
This property consists of a one-story Ranch-style residence with an attached garage and two non-historic-era outbuildings. The residence has a low-pitch, tile-covered hip roof and two entrances: one at the west side of the east facade under an eave overhang supported by two columns and one to the east of the facade with a security door. There is a large, vinyl sliding glass door at the west end of the façade as well as small rectangular vinyl windows between the two entrances. The residence's exterior is clad in vinyl siding and the garage has a metal roll up door. There is a brick and wooden fence fronting the property. The property is set in a vineyard. The Central California Traction Railroad Central Valley line runs west of the parcel. Opposite the railroad tracks is industrial development that dates form the past 30 years. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1920 (Parcelquest.com 2022)

*P7. Owner and Address:
Jose & Maria Morales
10651 East Harney Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15661 North Curry Avenue (Resource ID 20) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 15661 North Curry Avenue
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Residence constructed in 1920 (Parcelquest.com 2022). It appears to have been modified through the installation of replacement vinyl siding, vinyl windows, and a security door within the past circa 30 years. Two outbuildings were added on the property circa 1998 (NETROnline 2023).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 15661 North Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section 10B. Significance (continued)

Historic Context

The property at 15661 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15661 North Curry Avenue

The property at 15661 North Curry Avenue is currently owned by Jose and Maria Morales. Tax assessor records show the last deed transaction of the property dating to May 13, 2021. A 1911 county atlas shows the parcel was owned by Mrs. C.N. Cursy (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. By the 1990s the area to the west of the parcel was characterized by industrial development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence It appears to have been modified through the installation of replacement vinyl siding and vinyl windows as well as a security door within the past circa 30 years. Two outbuildings were added on the property circa 1998 (NETROnline 2023). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. It is located in an agricultural setting east of Lodi, but research did not reveal that the property played a role in the agricultural history of the area. It also does not distinctly convey any important associations with Lodi's settlement, growth, or development. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Mrs. C.N. Cursy made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Ranch style such as its hipped room and horizontal massing, however, it has been altered through the installation of replacement vinyl siding and vinyl windows as well as a modern security door within the past circa 30 years. Other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 15661 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Integrity of design is compromised due to the installation of replacement vinyl siding and vinyl windows as well as a modern security door within the past circa 30 years. Additionally, one of the non-historic-outbuildings is highly visible from the façade. Due to these changes, the property no longer conveys its original design.

Setting is the physical environment of a historic property. Integrity of setting has been diminished due to large-scale industrial development to the west within the past 30 years, which marks a departure from the property's agricultural surroundings.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Integrity of materials is compromised due to the installation of replacement vinyl siding and vinyl windows as well as a modern security door within the past circa 30 years.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Integrity of workmanship is compromised due to the installation of replacement vinyl siding and vinyl windows as well as a modern security door within the past circa 30 years.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The aforementioned changes have affected the property's ability to convey its historic-era appearance and character. Therefore, integrity of feeling is diminished.

Association is the direct link between an important historic event or person and a historic property. The cumulative impact of changes to the property have diminished the property's ability to convey its association as a mid-century Ranch-style residential rural property.

In conclusion, the property at 15661 North Curry Avenue does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

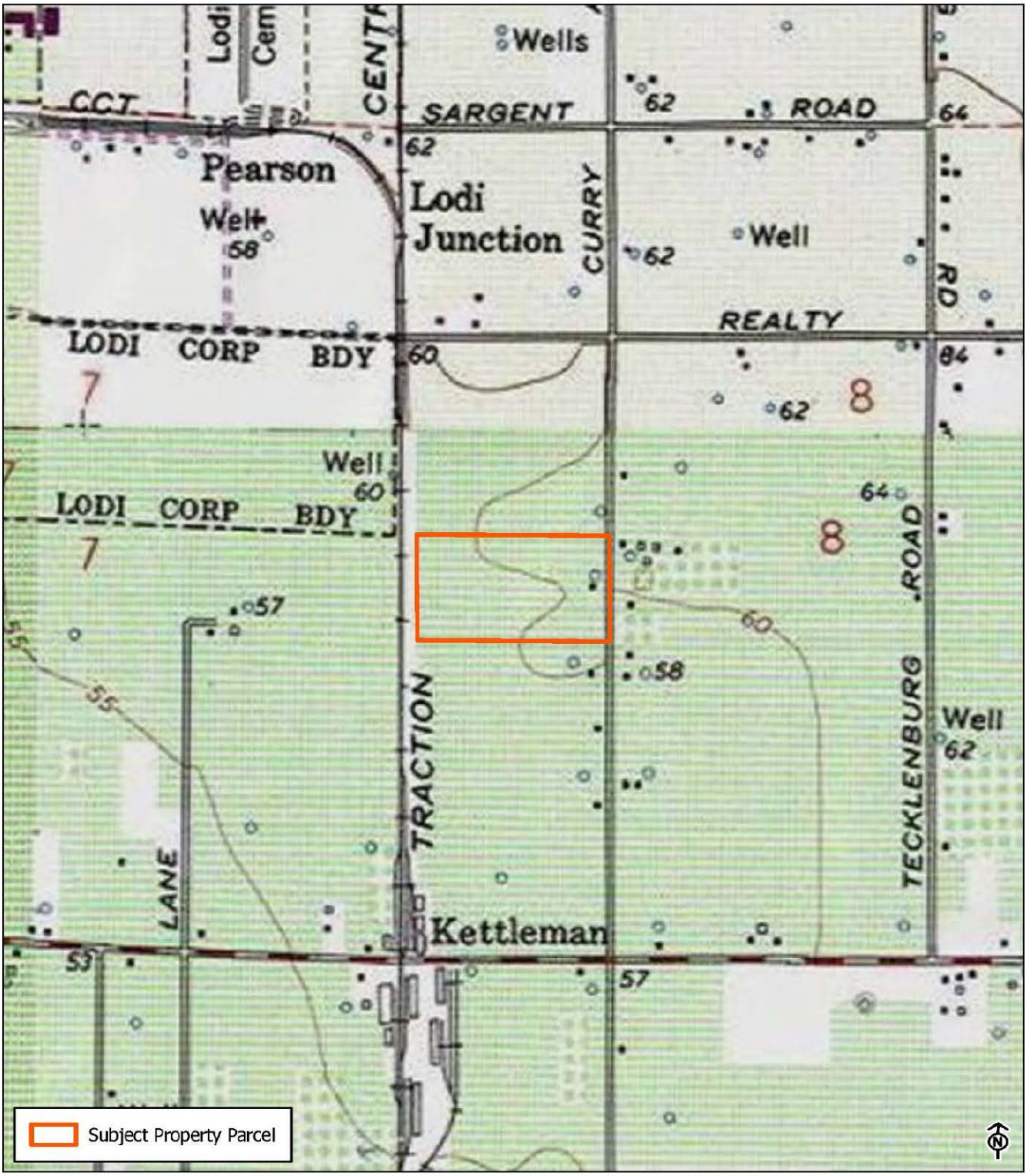
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 15661 North Curry Avenue (Resource ID 20)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 15505 North Curry Avenue (Resource ID 21)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 8; MD B.M.
c. Address 15661 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654222 mE/ 4220682 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-230-060

*P3a. Description:
This property consists of a one-story Craftsman-style residence with an attached two-story tank house, a detached garage, and a non-historic-era outbuilding built circa 1984 (NETROnline 2022). The residence has a front-gable roof with extended eaves, a clapboard exterior, and original double-hung one-over-one wood windows. A partial-width porch with a front-gable roof supported by battered wooden columns resting on brick pedestals is set on the south end of the east façade. An addition was built at the rear of the residence sometime between 1984 and 1993 to attach it to the tank house (NETROnline 2022). The tank house appears to have been converted to use as additional living space around this time. The garage is a simple gable-roof building with clapboard siding and one garage bay. The property is set in a rural area of Lodi with industrial development and the Central California Traction Railroad Central Valley line to the west. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1928 (Parcelquest.com 2022)

*P7. Owner and Address:
Leland & Janet Noma
13600 North Curry Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15505 North Curry Avenue (Resource ID 21) ***NRHP Status Code** 3CS
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 15505 North Curry Avenue
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** Residence constructed in 1928 (Parcelquest.com 2022). The garage and former tank house also appear to date from 1928 based on visual inspection. Review of aerials indicate an addition was built at the rear of the residence sometime between 1984 and 1993 to attach it to the tank house (NETROnline 2022). The tank house then appears to have been converted to use as additional living space. The only other change to the residence appears to be the replacement of the original roofing material with composite shingles. A non-historic-era outbuilding was built at rear of the residence circa 1984 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Rural Residential Development; Architecture **Area** San Joaquin Valley
Period of Significance 1928 **Property Type** Residential
Applicable Criteria 1, 3
The property at 15505 North Curry Avenue is eligible for listing in the California Register of Historical Resources (CRHR) under Criteria 1 and 3 and is a historical resource for purposes of the California Environmental Quality Act (CEQA). The property retains a high degree of integrity and reflects important associations with the agricultural settlement phase of Lodi during the early twentieth century (Criterion 1). Further, it is intact and representative of a rural residential property from the 1920s with a Craftsman-style residence, tank house, and garage (Criterion 3). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 15505 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15505 North Curry Avenue

The property at 15505 North Curry Avenue is currently owned by Leland and Janet Noma. Tax assessor records show the last deed transaction of the property dating to January 27, 1989. A 1911 county atlas shows the parcel was owned by Mrs. C.N. Cursy (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development (NETROnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners

This property is previously unrecorded and unevaluated. Historic aerials indicate the tank house was attached to the residence through the construction of an addition sometime between 1984 and 1993 (NETROnline 2022). The tank house then appears to have been converted to use as additional living space. The only other change to the residence appears to be the replacement of the original roofing material with composite shingles. A non-historic-era outbuilding was built at rear of the residence circa 1984 (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property is reflective of rural residential development occurring on small lots in Lodi during the early twentieth century. These small farms, typically consisting of agricultural land, a residence, and outbuildings, were commonly built during this period as the population outside of Lodi and in the agricultural areas of San Joaquin Valley increased. This property represents the trend of small "ranchette" style settlements outside San Joaquin Valley towns during the early twentieth-century. Due to its important associations with the agricultural settlement phase of Lodi, the property at 15505 North Curry Avenue is eligible for the CRHR under Criterion 1 and is considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that Mrs. C.N. Cursy made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property presents an intact and cohesive example of a late 1920s rural residential property, including a Craftsman-style residence, an intact tank house, and outbuilding (garage). The residence reflects the Craftsman Style through its massing, roof with overhanging eaves, partial-width entry porch with battered columns and brick pedestals, and wood double-hung one-over-one windows. The intact tank house at the rear of the residence is a common design feature of early twentieth-century rural residences. Although the tank house was attached to the residence through the construction of a non-historic-era addition and subsequently converted to living space, it is still identifiable as a tank house and clearly represents its former purpose. Overall, the property clearly conveys its construction date and the Craftsman style. Therefore, the property at 15505 North Curry Avenue is eligible for the CRHR under Criterion 3 and is considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 4, this property is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 15505 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. This property is largely unaltered and retains integrity of design.

Setting is the physical environment of a historic property. Historical photographs from 1957 show the neighboring residential properties in a similar arrangement to how they exist today. Industrial development west of the property dates from the early 2000s; however, the property faces away from this viewshed, and otherwise remains characterized by its agricultural surroundings. Therefore, the setting of the property is largely intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of this property remain intact, with original wood windows, clapboard siding, and wood columns and brick pedestals at the porch.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property is largely unaltered and retains most of its originals materials. Therefore, integrity of workmanship is intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its character and appearance as a 1920s Craftsman-style rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property would be recognizable to persons from the past and retains its association as a 1920s Craftsman-style rural residential property.

In conclusion, the property at 15505 North Curry Avenue meets CRHR Criteria 1 and 3 and retains integrity. The property is a historical resource for the purposes of CEQA. The period of significance for the property is 1928, corresponding to its construction date. The historic property boundary corresponds to its parcel boundaries.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



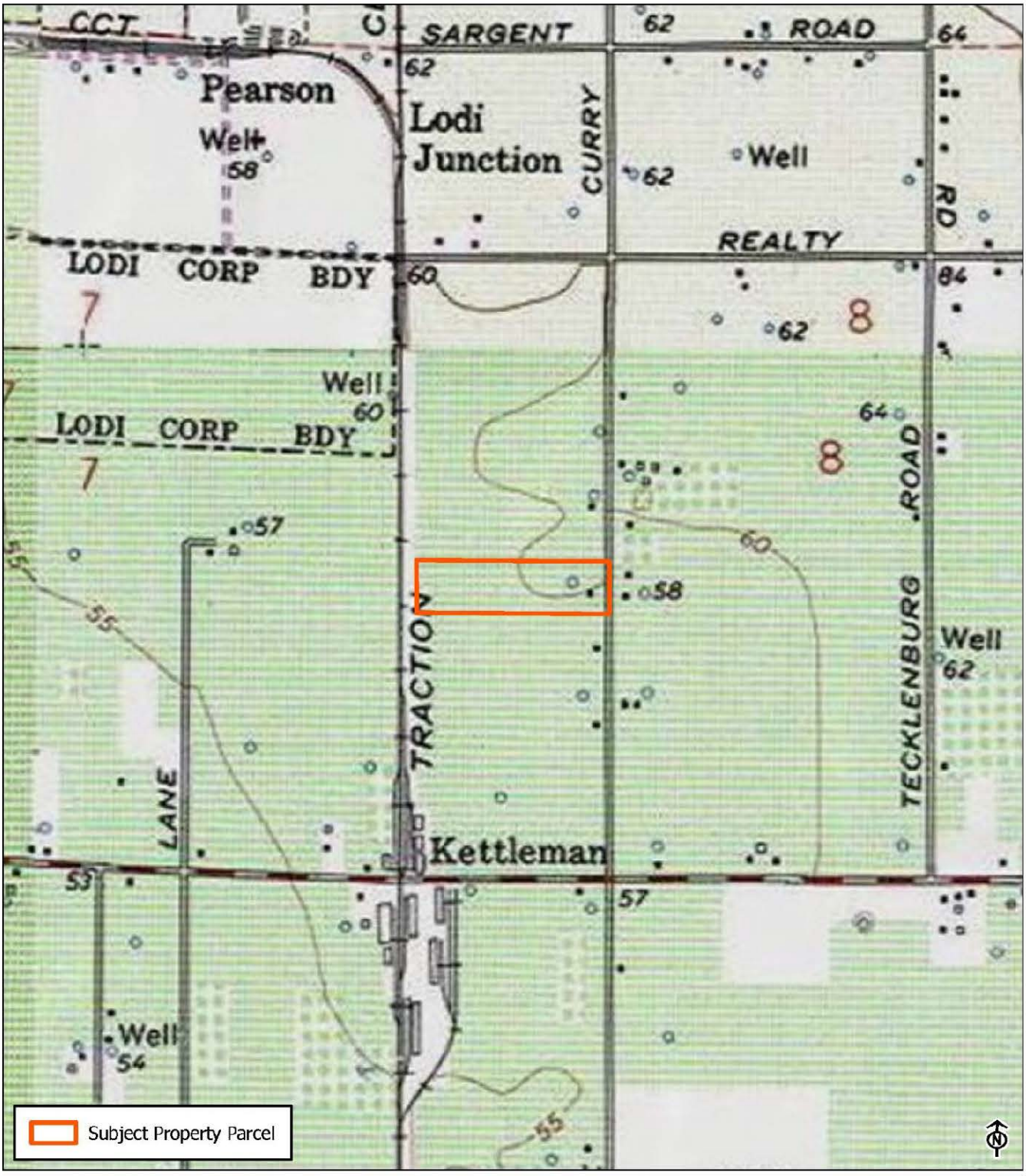
View southwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 15505 North Curry Avenue (Resource ID 21)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 15415 North Curry Avenue (Resource ID 22)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 8; MD B.M.
c. Address 15415 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654364 mE/ 4220610 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 049-230-080

*P3a. Description:
The subject property is a one-story Ranch-style residence with an attached garage. The roof is a steeply pitched gable roof with large overhang and rafter tails, and a hipped-roof over the two-bay garage. The siding appears to be wood and stone. The remainder of the façade is heavily obfuscated by brush, trees, and other landscaping. The residence is in a rural residential area in east Lodi, with the Central California Traction Railroad and industrial development to the west. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1969 (Parcelquest.com 2022)

*P7. Owner and Address:
Richard & Ruth Diekman
15415 North Curry Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15415 North Curry Avenue (Resource ID 22) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 15415 North Curry Avenue
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Constructed in 1969 (Parcelquest.com 2022). The roofing and garage doors appear to be replacements installed within the past circa 35 years. The remainder of the residence is not viewable from public vantage points due to landscaping and other vegetation.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 15415 North Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity of design, workmanship, feeling, and setting due to new roofing and a new garage door as well as industrial development to the west. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 15415 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15415 North Curry Avenue

The property at 15415 North Curry Avenue is currently owned by Richard and Ruth Diekman. Tax assessor records show the last deed transaction of the property dating to September 1, 1992. A 1911 county atlas shows the parcel was owned by E.G. Spare (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. The building first appears between the 1967 and 1984 aerials. By the 1990s the area to the west of the parcel had significant industrial development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence appears to have new roofing and new garage doors, but the façade and other elevations are obfuscated from public vantage points by vegetation. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to residential development in Lodi which was common during this period. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. Therefore, the property at 15415 North Curry Avenue is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that E.G. Spare made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. The residence reflects elements of the Ranch style such as its hipped room and horizontal massing, however, other examples of resources with more character-defining features of this style exist. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 15415 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified with new roofing and a replacement garage door.

Setting is the physical environment of a historic property. An aerial from 1984 shows the neighboring residential properties in a very similar arrangement to what they are today. However, industrial development to the west has left the integrity of setting only partially intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of this property have been modified by the new roofing material and garage door, which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the property has been affected by the addition of new roofing material and garage doors.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property overall it continues to convey the character of a 1960s Ranch house. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property would be recognizable to persons from the past and retains integrity of association as a 1960s Ranch house.

In conclusion, the property at 15415 North Curry Avenue does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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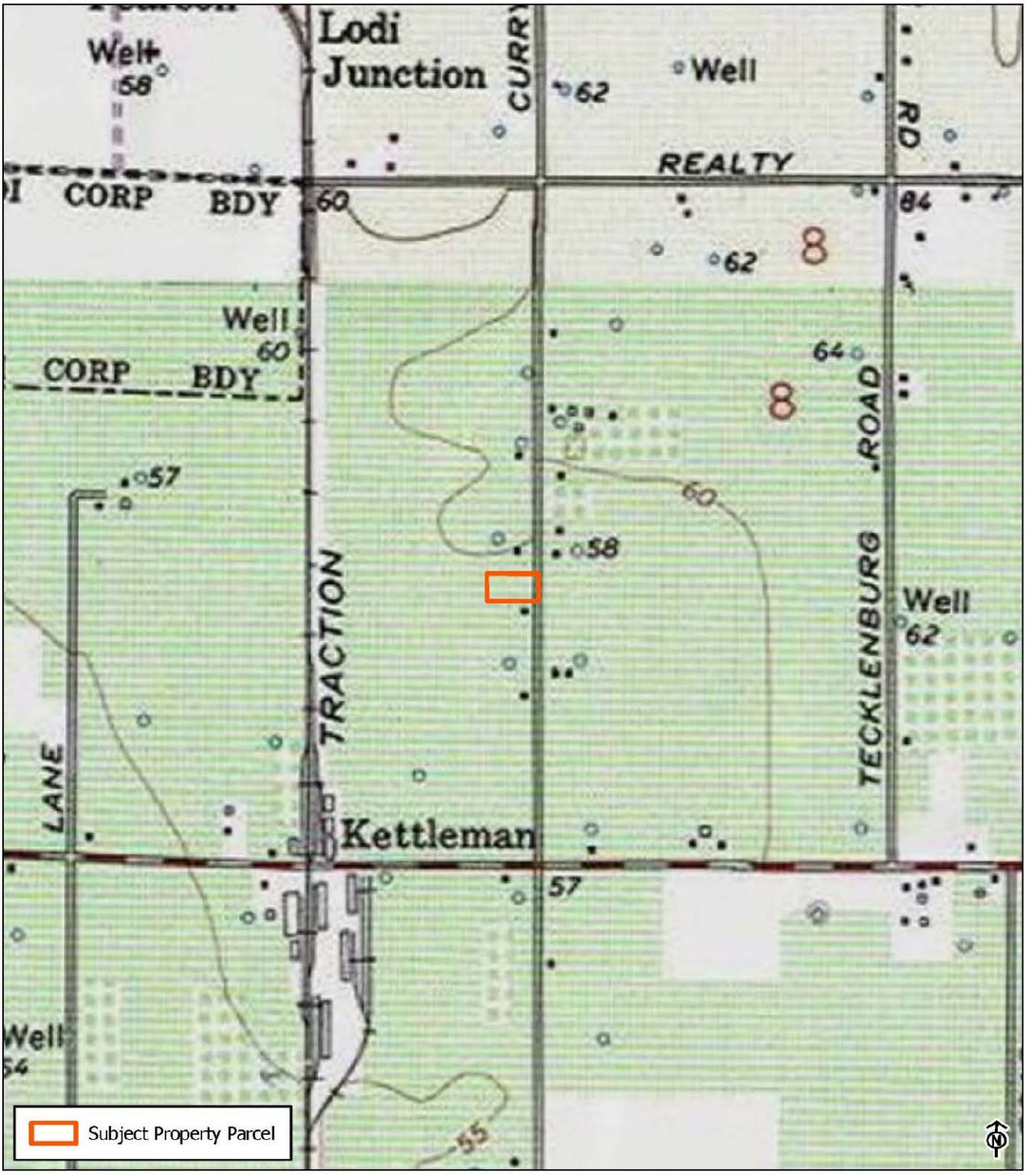
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 15415 North Curry Avenue (Resource ID 22)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 15403 North Curry Avenue (Resource ID 23)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 8; MD B.M.
c. Address 15403 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654206 mE/ 4220577 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-230-070

*P3a. Description:
The subject property is a one-story cottage with residence with a detached garage and shed built circa 1957. The residence has a wood shingle-covered front-gable roof with exposed rafter tails and a clapboard exterior. An enclosed full-width porch is located at the east façade and features a replacement door flanked by an aluminum sliding window and a fixed window. Other window types are unknown due to plant growth around the base of the building. The garage is a rectangular building with wood siding, two bays, and a corrugated metal roof. The shed is not visible from public vantage points but is rectangular and appears to be constructed of corrugated metal. The property is set in a rural residential area of east Lodi with modern industrial development to the west. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1900 (Parcelquest.com 2022)

*P7. Owner and Address:
Richard & Ruth Diekman
15415 North Curry Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15403 North Curry Avenue (Resource ID 23) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 15403 North Curry Avenue
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** Residence constructed 1900 (Parcelquest.com 2022). The earliest available aerial for the area dates from 1957 and shows the garage and shed were built by that time (NETROnline 2022). The roofing, windows, and doors appear to have been replaced within the past circa 40 years. It is unknown when the porch was enclosed but it appears to have occurred over 50 years ago.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 15403 North Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of integirty and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

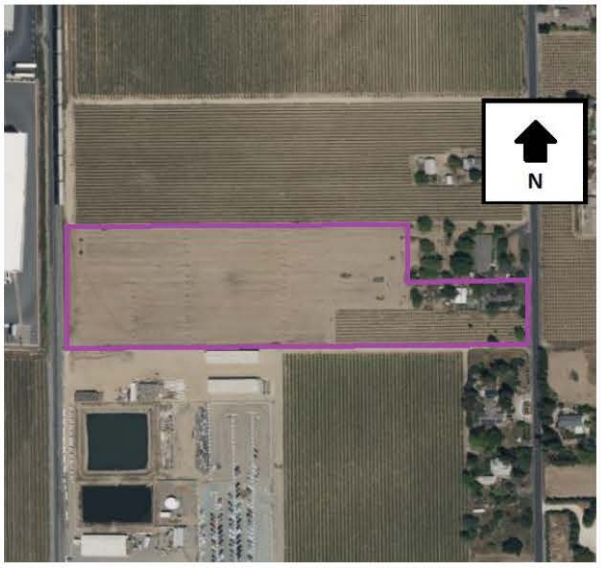
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 15403 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15403 North Curry Avenue

The property at 15403 North Curry Avenue is currently owned by Richard and Ruth Diekman. Tax assessor records show the last deed transaction of the property dating to September 1, 1992. A 1911 county atlas shows the parcel was owned by E.G. Spare (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as agricultural with scattered residential and agricultural development. By the 1990s the area to the west of the parcel was characterized by industrial development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has replacement roofing, windows, and doors installed within the past circa 40 years. The porch was enclosed over 50 years ago based on visual observation. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to rural residential development in Lodi which was common in the early twentieth century. Research did not reveal that the property played an important role in the agricultural or residential history of San Joaquin County. Regardless, the property lacks sufficient integirty to convey any important associations due to replacement roofing materials, doors, and windows. Therefore, the property at 15403 North Curry Avenue is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that E.G. Spare made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property does not embody the distinctive characteristics of a type, period, or method of construction, nor does it possess high artistic value. Further, has been altered through the installation of replacement roofing materials, windows, and doors within the past circa 40 years. The porch also has been enclosed. Additionally, research did not uncover any direct associations with important designers or engineers. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 15403 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified with new roofing, windows, and doors and enclosing the front porch.

Setting is the physical environment of a historic property. Aerial photographs from 1957 to 1984 show the neighboring residential properties in a very similar arrangement to what they are today, however, industrial development to the west has left the integrity of setting only partially intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of this property have been modified by the new roofing, windows, and doors which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the property has been affected by the addition of new roofing, siding, windows, and doors.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property overall it continues to convey the character of an early twentieth-century rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property likely would not be recognizable to persons from the past due to alterations and has lost integrity of association.

In conclusion, the property at 15403 North Curry Avenue does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



15403 North Curry Avenue, view northwest (Jacobs 2022).

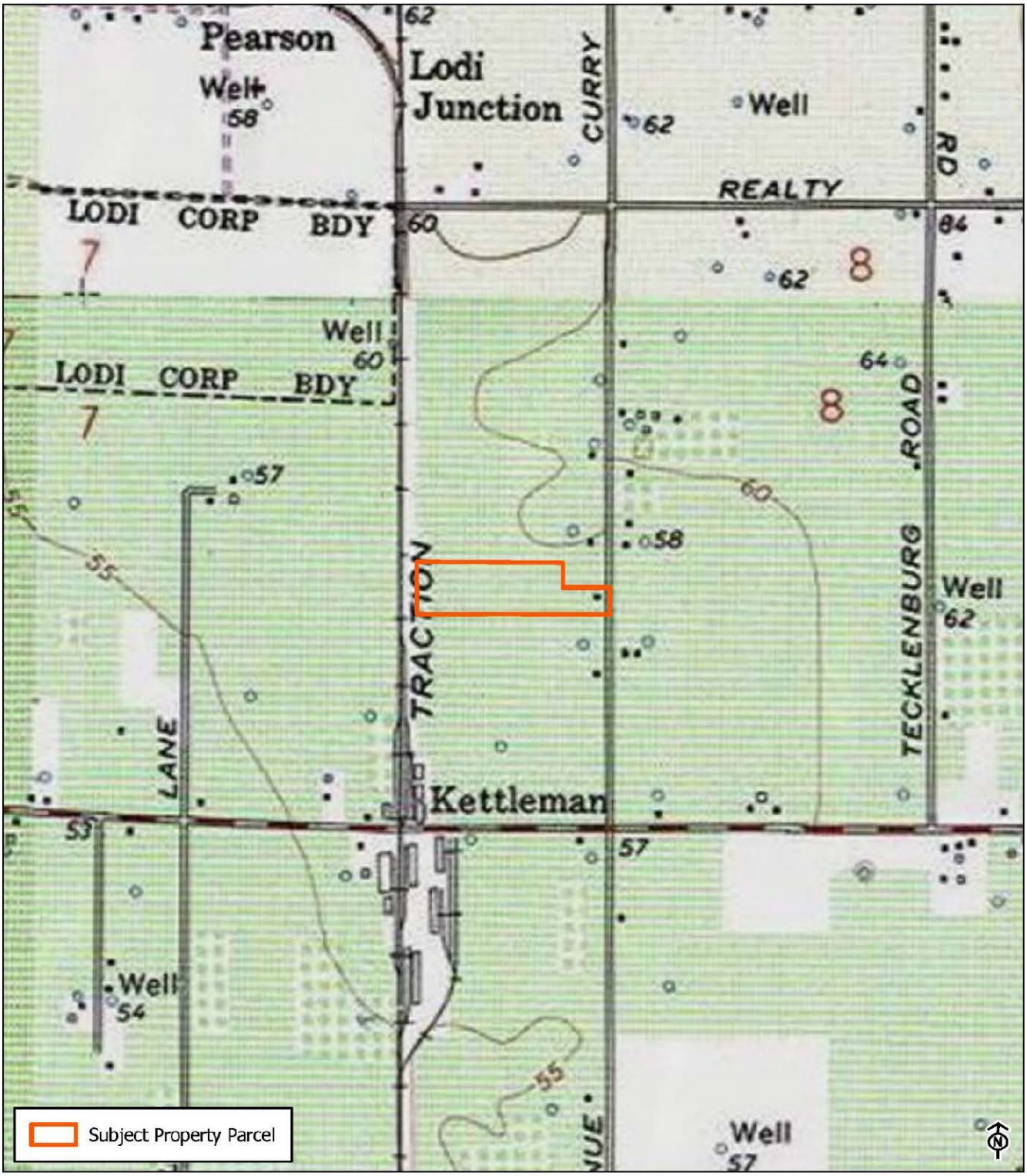
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 15403 North Curry Avenue (Resource ID 23)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 10 *Resource Name or #: (Assigned by recorder) 6021, 5950, and 5990 East Kettleman Lane (Resource ID 24)
P1. Other Identifier: Delta Packing Company
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW, NW 1/4 of Sec 8, 17; MD B.M.
c. Address 6021, 5950, and 5990 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654133 mE/ 4220331 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Numbers (APNs): 049-230-110, 061-030-150, 061-050-120, and 061-030-540

*P3a. Description:
This property is an industrial agricultural packing plant located on four parcels. East Kettleman Lane and the Central California Traction Railroad (CCTR) Central Valley Line extend through the property. The CCTR serviced the property. There are three historic-age buildings on the property dating from between 1954 and 1967 that are identified as Building 1 through 3 in this form. Building 1 (constructed sometime between circa 1954 and 1957) is located on APN 049-230-110 to the north of East Kettleman Lane. It is a rectangular, flat roofed stucco building with a loading dock facing East Kettleman Lane and wrapping around the east elevation. There are four sets of double unglazed entry doors at the eastern façade and a small shed roof protecting the entrances (see continuation sheet). The packing plant is set in an industrial area of east Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) Building 1 at west of photo, view north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
Circa 1948-1968 (NETRonline 2022)

*P7. Owner and Address:
Delta Packing Company of Lodi Inc.
6012 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6021, 5950, and 5990 East Kettleman Lane (Resource ID 24) ***NRHP Status Code** 6Z
Page 2 of 10

B1. Historic Name: N/A
B2. Common Name: 6021, 5950, and 5990 East Kettleman Lane
B3. Original Use: Agricultural, Industrial
B4. Present Use: Agricultural, Industrial
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** Buildings 1 and 2 constructed sometime between circa 1954 and 1957. Building 3 constructed sometime between circa 1957 and 1967. Building 1 had was altered through a dropped shed-roof addition over the loading dock at the east elevation added circa 1967. Building 2 appears to have a replacement roof at the rear of the property added circa 1984. **Building 3** appears to have been enlarged with a rear addition sometime between 1993 and 1998. Based on visual observation, the modern-age all buildings have had replacement roofs, doors, windows, and other openings, such as garage bays. A large modern-age industrial building at the northern parcel was built circa 1984 and a small storage building at the south parcel was built circa 1993 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Agricultural and Industrial Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Agricultural, Industrial
Applicable Criteria N/A
The property at 6021, 5950, and 5990 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity of design, workmanship, feeling and setting due to replacement roofing, siding, windows and doors as well as industrial development to the previously agricultural setting. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

P3a. Description (continued)

Building 2 (constructed sometime between circa 1954 and 1957) is located on APN 049-230-150 and is an irregular plan, flat-roofed refrigerated storage building. The exterior is concrete and stucco, and there are industrial cooling apparatuses present at the east and west elevations and on the roof. Building 3 (constructed sometime between circa 1957 and 1967) is located on APNs 061-030-540 and 061-050-120. It has a medium-pitch, corrugated metal-clad front-gable roof with a large truck entrance facing East Kettleman Lane, as well as a large porch-roof extension that appears to serve as storage at the east elevation. The building is constructed of corrugated metal and wood.

The property also includes one modern-age building on the northern parcel dating to circa 1984 and one on the southern parcel dating to circa 1993.

Section B10. Significance (continued)

Historic Context

The property at 6021, 5950, and 5990 East Kettleman Lane is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

This increase in transportation led to shifts in how farm business was conducted within the San Joaquin Valley. In the case of the subject property, the twentieth century saw multiple trends that coalesced into the type of fruit and vegetable packing plant that would

be housed there. Agricultural packing was historically conducted on individual farms, in small sheds or buildings located near fields, and these were often staffed with the families of the farmers themselves (Siebert 2003, 195). As these jobs were slowly unionized and mechanization of packing processes increased in the 1940s, commercial packing businesses thrived in central locations near rail or river transportation corridors. As mechanization increased, union packing jobs dropped sharply, but commercial packing businesses were well established by the 1970s, the period when Delta Packing Company was created, serving farms throughout the San Joaquin Valley (Siebert 2003,195-196).

6021, 5950, and 5990 East Kettleman Lane

The property at 6021, 5950, and 5990 East Kettleman Lane is currently owned by Delta Packing Company of Lodi, Inc., and appears to be an industrial/agricultural business related to packing and storage of farm goods. Tax assessor records show the last deed transaction of the property dating to May 9, 2001. A website for Delta Packing indicates the firm was founded in 1976 by Carl Elkins and Lee Mettler, who sold the business to the Costamagna family in 2001, the last deed transaction on record (Deltapacking.com 2023). According to review of historic aerials, the historic-age buildings on the parcel were constructed sometime between 1954 and 1967. The buildings predate the packing company but research did not reveal their original use. Given their location close to the CCTR line, it was likely commercial or storage related. A 1911 county atlas shows the parcel at Section 18, Township 3 N, Range 7 E, owned by E. E. Purston, John Marshall, O. Rudloff, H. Tecklenburg Jr., and W.E. Shipment (historicmapworks.com 2023). Research using Newspapers.com and Ancestry.com did not reveal any additional information about Delta Packing or the property, and it appears that several other companies have operated under "Delta Packing" in the twentieth century, most notably in Isleton.

This property is previously unrecorded and unevaluated. It has been modified through replacement roofs, doors, windows, and other openings, such as garage bays, as well as construction of modern-era resources. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events. Packing houses for agricultural products grown and shipped out of Lodi and the San Joaquin Valley were constructed beginning in the late 1800s. A boom in fruit and vegetable packing occurred during the post-World War II period, when packing houses were centralized in larger commercial packing houses near transportation and commerce. The buildings at the Delta Packing property represent a later development in the packing industry given the founding of the company in 1976. The subject property represents a common type of agricultural commercial enterprise in the San Joaquin Valley. Research did not uncover that it has historically been an important or influential enterprise in the region. Therefore, the property at 6021, 5950, and 5990 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The warehouses do not appear to be associated with any significant achievements of any individual persons based on research. Therefore, the property at 6021, 5950, and 5990 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The warehouses are utilitarian and are not demonstrative of any popular architectural style common to commercial or industrial properties during the late 1970s, such as New Formalism or the International Style. It is unlikely that the warehouses were designed by an architect, and the builder was not identified. Industrial properties are common in the region, and the subject property does not appear to be the work of a master. Therefore, the property at 6021, 5950, and 5990 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6021, 5950, and 5990 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the property has been impinged by replacement roofs, doors, windows, and other openings, such as garage bays.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the railroad alignment and agricultural land. The setting remains much as it did when the property was constructed, except that the industrial and residential population of the surrounding area has greatly increased, which has compromised the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. The integrity of materials has been compromised due to replacement roofs, doors, windows, and other openings, such as garage bays.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. No high degree of workmanship is associated with the utilitarian warehouse building, however, the limited workmanship present with the property is intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of an industrial and commercial property, despite any alternations. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of an industrial property constructed in the late 1970s and continues to convey that association.

In conclusion, the property at 6021, 5950, and 5990 East Kettleman Lane does not appear to possess sufficient significance to be eligible for the CRHR and has lost integrity of design, setting, materials, and workmanship. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

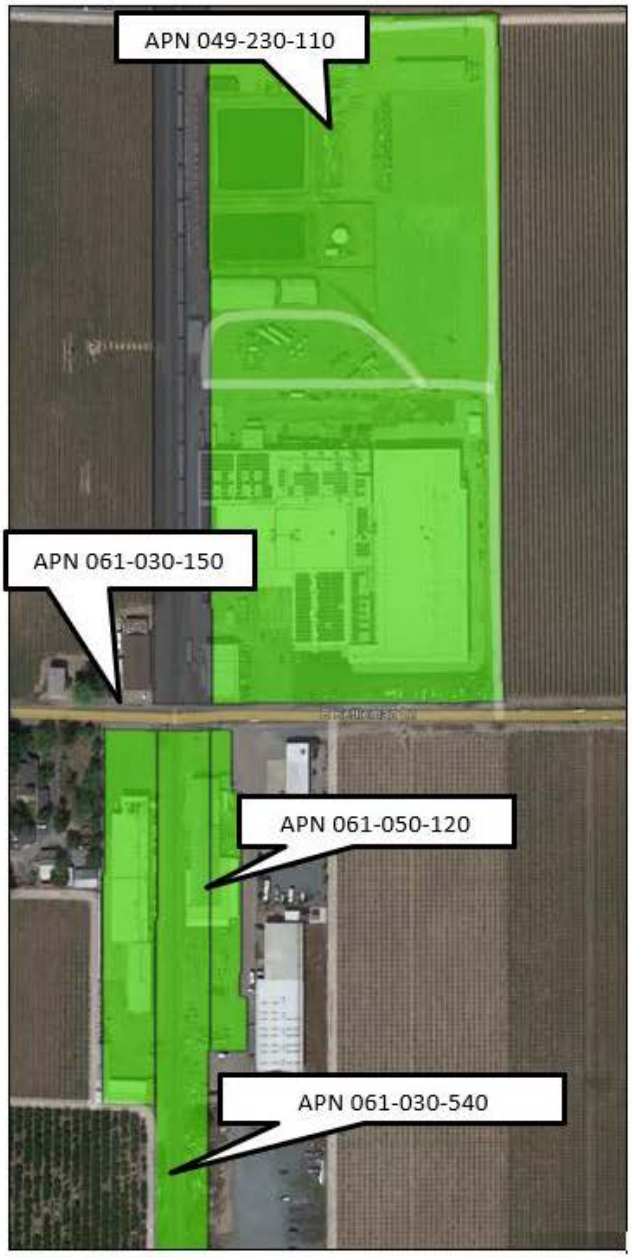
No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

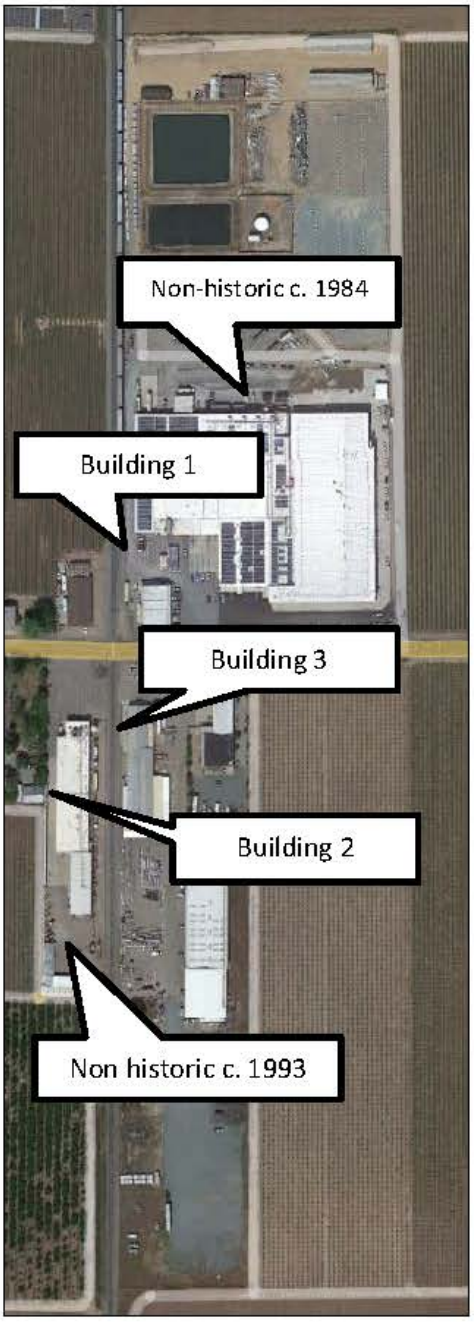
Siebert, Jerry. 2003 "California Agriculture: Dimensions and Issues." Accessed February 15, 2023. https://escholarship.org/content/qt9145n8m1/qt9145n8m1_noSplash_c9286bcd886764d0588c279590b82684.pdf

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

P5. Photographs (continued)



Parcels owned and operated by Delta Packing of Lodi, Inc. APN 061-030-540 continues south for approximately 0.3 miles along the CCTR track.



Aerial of Resource 24 with buildings labeled



Building 2, view south (Jacobs 2022).



Building 3, view southwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # 6021, 5950, and 5990 East Kettleman Lane (Resource ID 24)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 15277 North Curry Avenue (Resource ID 25)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 8, 17; MD B.M.
c. Address 15277 North Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654391 mE/ 4220408 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 049-230-100

*P3a. Description:
The subject property is a two-story Queen Anne-style residence and a one-bay detached garage. The main mass of the residence is covered by a side-gable roof. A front gable projects out on the south end of the east façade and features imbricated wood shingles and a tripartite arrangement of windows in the gable end. A front-gabled dormer is to the east of this projection. Contained under the projection in the first story is a partial-width front porch supported by wood columns. A glazed front door with sidelights is accessed from the porch. The exterior is clad in clapboard and windows are replacement vinyl units. The garage is a front-gabled wood-frame building with one bay and a replacement garage door. The property is set in a rural residential area of east Lodi with modern industrial development to the west. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1906 (Parcelquest.com 2022)

*P7. Owner and Address:
Marcos Impearial
15277 North Curry Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15277 North Curry Avenue (Resource ID 25) ***NRHP Status Code** 3CS
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 15277 North Curry Avenue (Resource ID 25)
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Queen Anne

***B6. Construction History:** Residence constructed in 1906 (Parcelquest.com 2022). The garage is extant in the earliest available aerial for the area from 1957. Based on visual observation, it was constructed circa 1920. Vinyl windows on the residence are replacements installed within the past circa 15 years, and a new garage door is present at the garage.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Architecture **Area** San Joaquin Valley
Period of Significance 1906 **Property Type** Residential
Applicable Criteria 3
The property at 15277 North Curry Avenue is eligible for listing in the California Register of Historical Resources (CRHR) and is a historical resource for purposes of the California Environmental Quality Act (CEQA). The property well represents an intact Queen Anne-style residence. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 15277 North Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation network, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15277 North Curry Avenue

The property at 15277 North Curry Avenue is currently owned by Marcos Impearial. Tax assessor records show the last transaction of the property dating to September 3, 2020, a grant deed from the previous owners, Peter and Joan Verdoorn. A 1911 county atlas shows the parcel was owned by O. Pool (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows this property and its surroundings largely as they are today. Research using Newspapers.com and Ancestry.com did not reveal any information about the current or previous owners.

The residence is built in the Queen Anne style, which was widely popular in the United States and California between 1880 and 1910, is typically two stories tall and characterized by a high-pitched roof with prominent gable, patterned shingles, asymmetrical facades, and partial or full-width porches. The walls are usually clad with clapboard and decorative wooden trim.

The property is previously unrecorded and unevaluated. It has been altered through the installation of vinyl windows within the past circa 15 years and a modern garage door. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural/residential development in the Lodi environs, however, it does not provide a representative example of a farming property. Agricultural fields surround the residence, but the property lacks farm-related outbuildings that convey a sense of its farming operations. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. Therefore, the property at 15277 North Curry Avenue is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not uncover that O. Pool or Peter and Joan Verdoorn made any important contributions to history. No other past owners were identified during research. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property provides a good, intact example of a Queen Anne residence. It exhibits numerous features reflective of the style, including its high-pitched roof with prominent gable, patterned shingles, asymmetrical massing, and partial-width porch. Although windows have been replaced, they retain the size and placement of the original openings. Despite this change, the residence retains a high level of integrity. Therefore, the property at 15277 North Curry Avenue is eligible for the CRHR under Criterion 3 and is considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 15277 North Curry Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design has been largely unaltered. The replacement of the windows and garage door do not have an overall impact to the presentation of the house's design as a Queen Anne residence as it still conveys the essential character-defining features of the style.

Setting is the physical environment of a historic property. The property surroundings are still characterized as agricultural, but industrial development to the west has slightly diminished integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Except for replacement windows at the residence and a replacement garage door at the garage, the property retains its other original materials. Therefore, the integrity of materials is intact. This includes those materials that distinctly convey its significance as a representative example of the Queen Anne Style, such as clapboard siding and patterned shingles.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has been largely unaltered since it was originally constructed and retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey its character and appearance as an early twentieth-century Queen Anne rural residence. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property would be recognizable to persons from the past. It is largely unaltered and conveys its association as an early twentieth-century Queen Anne rural residence.

In conclusion, the property at 15277 North Curry Avenue possesses architectural significance under CRHR Criterion 3 and retains integrity. Therefore, the property is a historical resource for the purposes of CEQA. The period of significance corresponds to 1906, its date of construction. The historic property boundary is limited to the footprint of residence.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

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Section P5. Photographs (continued)



View facing northwest showing the residence's side, south elevation (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 15277 North Curry Avenue (Resource ID 25)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 6050, 6044, and 6030 East Kettleman Lane (Resource ID 26)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 8, 17; MD B.M.
c. Address 6050, 6044, and 6030 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654100 mE/ 4220092 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-050-140 and 061-050-130

*P3a. Description:
The subject property is an industrial warehouse that is rectangular with a low-pitch gable roof and corrugated metal exterior. It has several garage bay openings and unglazed doors. The building is surrounded by a large asphalt parking lot. The warehouse is set into an industrial area of east Lodi, and the Central California Traction Railroad (CCTR) Central Valley line runs to the west of the property. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1967 (NETROnline 2022)

*P7. Owner and Address:
SS Hernandez Properties LLC
PO BOX 2507
Lodi, CA 95241

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6050, 6044, and 6030 East Kettleman Lane (Resource ID 26) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 6050, 6044, and 6030 East Kettleman Lane
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** Building constructed circa 1967 (sometime between 1957 and 1967 based on aerials). A rear addition was added sometime between 1984 and 1993. The warehouse was enlarged and a new roof was added circa 1998 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Industrial Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 6050, 6044, and 6030 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of integirty and significance. Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 6050, 6044, and 6030 East Kettleman Lane is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

6050, 6044, and 6030 East Kettleman Lane

The property at 6050, 6044, and 6030 East Kettleman Lane, is currently owned by SS Hernandez Properties, LLC, and serves warehouse (parcelquest.com 2022). Tax assessor records show the last deed transaction of the property dating to March 5. 2013. A 1911 county atlas shows the parcel at Section 18, Township 3 N, Range 7 E. This parcel was owned by John Marshall (historicmapworks.com 2023). According to historic aerials, the warehouse building was constructed circa 1967. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

The property is previously unrecorded and unevaluated. It has been altered by two large modern-era additions. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events. The property is related to industrial development in east Lodi. Research did not reveal that the property played an important role in the industrial development of Lodi. Many other 1960s industrial properties exist in the area. Research did not uncover that this property has historically been important to the area. Therefore, the property at 6050, 6044, and 6030 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under NRHP Criterion B or CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The warehouse does not appear to be associated with any significant achievements of any individual persons, and research did not reveal any past owners related to the property. Therefore, the property at 6050, 6044, and 6030 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under NRHP Criterion C or CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The warehouse is not demonstrative of any popular architectural style common to commercial or industrial properties during the late 1960s, such as the International Style. It is unlikely that the warehouse was designed by an architect, and the builder was not identified. Many other 1960s industrial propertied exist in the region, and the subject property does not appear to be the work of a master. Therefore, the property at 6050, 6044, and 6030 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under NRHP Criterion D or CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6050, 6044, and 6030 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The integrity of design has been compromised by two large modern-era additions to the building.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the railroad alignment and industrial/agricultural land. The setting remains much as it did when the property was constructed, except that the industrial and residential population of the surrounding area has greatly increased, which has compromised the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. The integrity of materials has been compromised by two additions to the building, but the remaining materials related to utilitarian construction appear to be intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The additions have also diminished integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of an industrial and commercial property, despite alterations. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of an industrial building constructed in the late 1960s and continues to convey that association.

In conclusion, the property at 6050, 6044, and 6030 East Kettleman Lane does not appear to possess sufficient significance to be eligible for the CRHR and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com

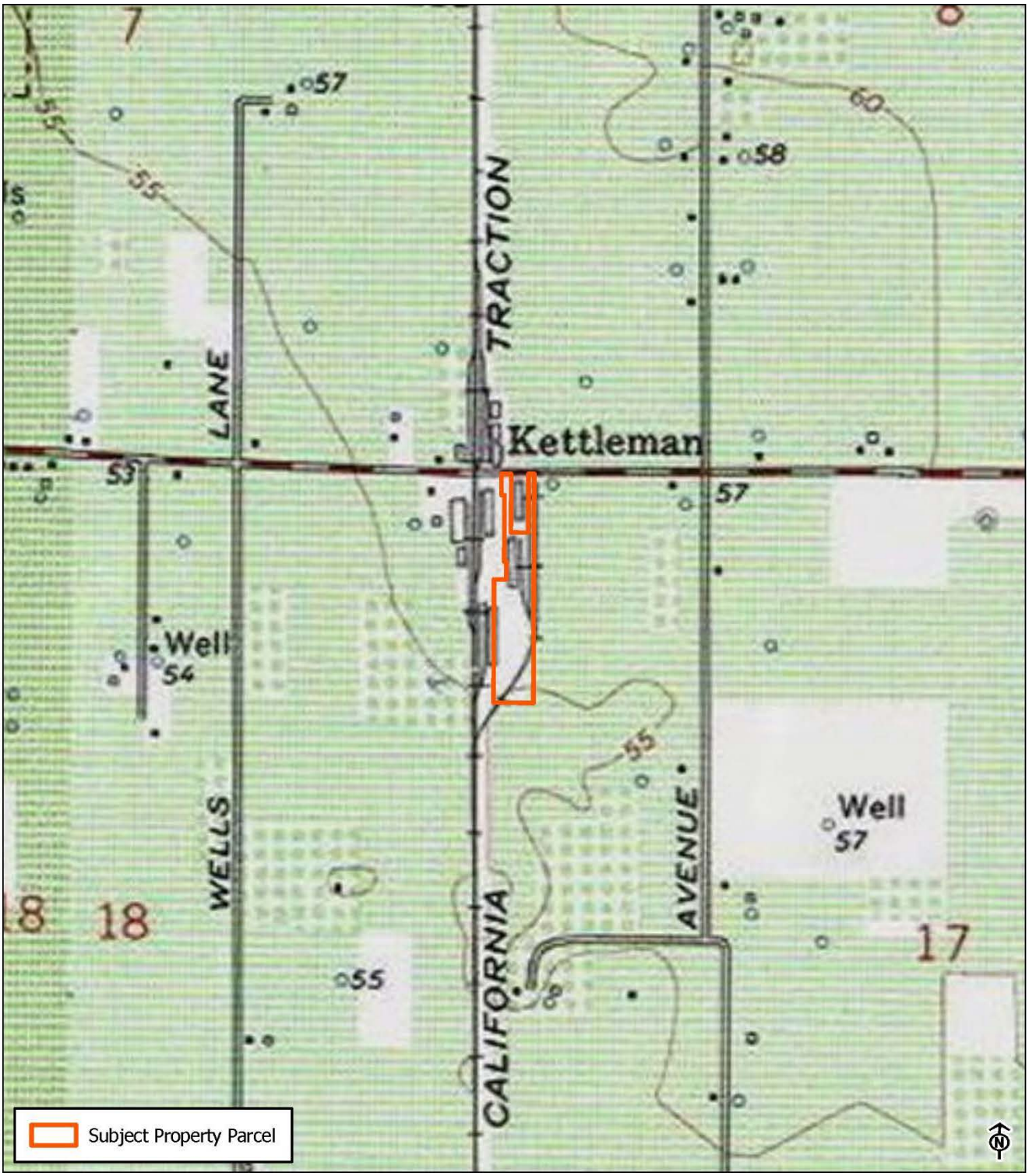
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** 6050, 6044, and 6030 East Kettleman Lane (Resource ID 26)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 6042 East Kettleman Lane (Resource ID 27)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 17; MD B.M.
c. Address 6042 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654101 mE/ 4220041 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-050-040, 061-050-050

*P3a. Description:
This property is a rectangular industrial building with a low-pitch gable roof, two double-height garage bays, window openings covered by striped awnings, and a concrete loading ramp which provides egress via concrete stairs. The exterior appears to be concrete and vinyl. The property has been altered with new vinyl siding, new windows, new garage bay doors, and window awnings. The property is set in an industrial area of east Lodi, adjacent to the Central California Traction Railroad (CCTR) Central Valley line. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1957 (NETROnline 2022)

*P7. Owner and Address:
David A. & Patricia M. Kirsten
PO BOX 2607
Lodi, CA 95241

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6042 East Kettleman Lane (Resource ID 27) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 6042 East Kettleman Lane
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** Constructed circa 1957 (appears in a 1957 aerial, the first available for the area) (NETROnline 2022). Historic aerials indicate the footprint of the property remains the same, but visual inspection indicates the property has been altered with replacement vinyl siding, new windows, new garage bay doors, and window awnings.

***B7. Moved?** ☑No ♈Yes ♈Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Industrial Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 6042 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The has lost integrity of design, materials, and workmanship. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

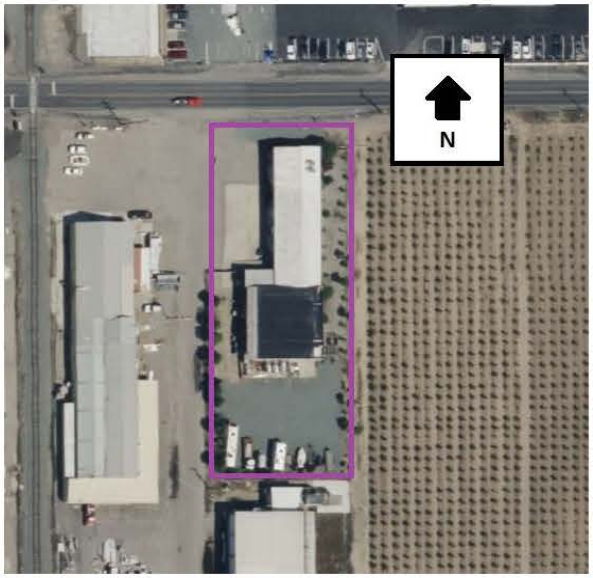
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 6042 East Kettleman Lane is in the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly-constructed SPRR. The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 later shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the CCTR, which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by UPRR and BNSF (JRP Historical Consulting Services 2003).

6042 East Kettleman Lane

The property at 6042 East Kettleman Lane is currently owned by David A. & Patricia M. Kirsten and serves warehouse (parcelquest.com 2022). Tax assessor records show the last deed transaction of the property dating to December 20, 2016. A 1911 county atlas shows the parcel at Section 18, Township 3 N, Range 7 E. This parcel was owned by O. Rudloff (historicmapworks.com 2023). According to historic aerials, the warehouse building was constructed circa 1957. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

The property is previously unrecorded and unevaluated. It has been altered through the installation of replacement vinyl siding, new windows, new garage bay doors, and window awnings. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events. The property is related to industrial development in east Lodi. Research did not reveal that the property played an important role in the industrial development of Lodi and does not distinctly embody any important events or trends. Therefore, the property at 6042 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The prpoerty does not appear to be associated with any significant achievements of any individual persons, and research did not reveal any past owners related to the property. Therefore, the property at 6042 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not an important example of a type, period, or method of construction. The warehouse is utilitarian in design and is not demonstrative of any popular architectural style common to commercial or industrial properties during the 1950s, such as the International Style. It is unlikely that the warehouse was designed by an architect, and the builder was not identified. Many other 1950s industrial properties exist in the region, and the subject property does not appear to be the work of a master. Therefore, the property at 6042 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6042 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The integrity of design has been compromised by replacement and installation of replacement vinyl siding, new windows, new garage bay doors, and window awnings.

Setting is the physical environment of a historic property. When the property was constructed, the surrounding area included the railroad alignment and industrial/agricultural land. The setting remains much as it did when the property was constructed, except that the industrial and residential population of the surrounding area has greatly increased, which has compromised the rural character of the property's original setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular patter of configuration to form a historic property. The integrity of materials has been compromised due to replacement vinyl siding, new windows, new garage bay doors, and window awnings.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The replacement vinyl siding, new windows, new garage bay doors, and window awnings have also affected the property's integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of an industrial and commercial property, despite the alternations. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of an industrial building constructed in the late 1950s and continues to convey that association.

In conclusion, the property at 6042 East Kettleman Lane does not appear to possess sufficient significance to be eligible for the CRHR and has lost integrity of design, setting, materials, and workmanship. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 6042 East Kettleman Lane (Resource ID 27)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 6312 East Kettleman Lane (Resource ID 28)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 17; MD B.M.
c. Address 6312 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654384 mE/ 4219924 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-050-090

*P3a. Description:
This property consists of a residence with Minimal Traditional elements, garage, and non-historic-age carport. The residence has a rectangular footprint and a hipped roof with a front-gable projection covering a small front porch. The entrance is a glazed door with sidelights. It appears all windows at the façade are vinyl double-hung windows. The cladding on the residence appears to be clapboard. The garage is gabled with a rectangular footprint, wood cladding, and a replacement door. The buildings are set within a vineyard in East Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1917 (Parcelquest.com 2022)

*P7. Owner and Address:
Jason P. & Kimberly A. Eells
15299 North Alpine Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 6312 East Kettleman Lane (Resource ID 28) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 6312 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional elements

***B6. Construction History:** Residence constructed 1917 (Parcelquest.com 2022). USGS topographic maps and historic aerials indicate the garage was likely built circa 1942 (NETROnline 2022). The residence has been heavily altered, with new roofing, siding, windows, and doors.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 6312 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

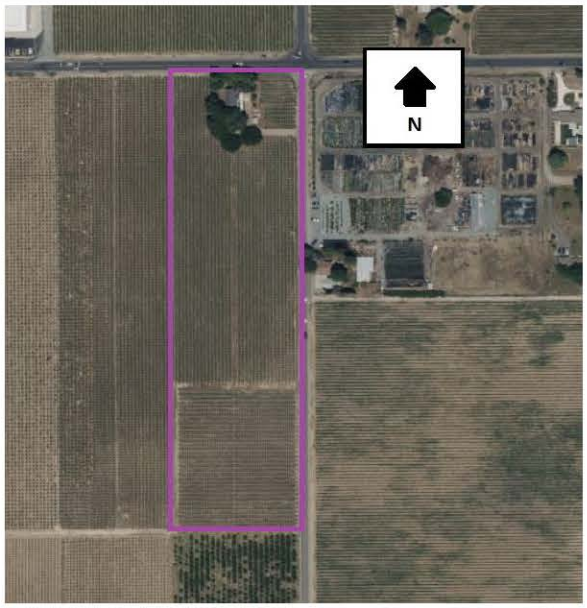
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Historic Context

The property at 6312 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

6312 East Kettleman Lane

The property at 6312 East Kettleman Lane is currently owned by Jason P. & Kimberly A. Eells. Tax assessor records show the last deed transaction of the property dating to November 10, 2014. A 1911 county atlas shows the parcel in Section 18, Township 3 N, Range 7 E,

owned by O. Rudloff (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has replacement roofing, siding, windows, doors and front porch. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to rural residential development in Lodi which was common in the early nineteenth century. Research did not reveal that the property played an important role in the agricultural or residential history of San Joaquin County. Therefore, the property at 6312 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Therefore, the property at 6312 East Kettleman Lane Avenue is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property reflects some elements of the Minimal Traditional Style, such as its roof shape and small footprint. However, modifications including the new roof, windows, siding, doors and front porch have diminished the property's integrity. Other intact examples of this style with more character-defining features exist in the region. Therefore, the property at 6312 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 6312 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified with new roofing, siding, windows, doors and front porch.

Setting is the physical environment of a historic property. Aerial photographs from 1957 to 1984 show the neighboring residential properties in a very similar arrangement to what they are today. Therefore the integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property have been modified by the new roofing, siding, windows, doors, and front porch, which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The above-mentioned changes have compromised integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey the character of a rural property from its period of construction. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Although some modifications have occurred to the property, overall, it continues to convey the character of a rural property from its period of construction. It retains integrity of association.

In conclusion, the property at 6312 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



6312 East Kettleman Lane, view northwest (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 6312 East Kettleman Lane (Resource ID 28)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 14541 North Curry Avenue and 14501 Curry Avenue (Resource ID 29)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 17; MD B.M.
c. Address 14541 North Curry Avenue and 14501 Curry Avenue, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 654363 mE/ 4219639 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-131-020, 061-131-010

*P3a. Description:
This property is a one-story Ranch-style residence with a low-pitch gable roof and stucco exterior. The entrance is housed under a gabled projection and there is a large brick chimney at the front elevation. There is a carport supported by brick columns at the west end of the north elevation and a modern-era garage addition at the east end of the elevation. The parcel also includes a rear shop or garage that is clad in wood shingles and terminates in a gable roof; other details about the outbuilding were not visible from the public vantage point due to mature vegetation and setback. The residence is set in a rural residential area of Lodi and surrounded by other residences and agricultural land. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1959 (Parcelquest.com 2022)

*P7. Owner and Address:
Gary G. Koepplin
14501 North Curry Avenue
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** 14541 North Curry Avenue and 14501 Curry Avenue (Resource ID 29) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 14541 North Curry Avenue and 14501 Curry Avenue
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Residence constructed in 1959 (Parcelquest.com 2022). Aerials indicate the garage was added to the north elevation sometime between 1993 and 1998. There also appear to be new windows, roofing, doors, new garage door, and a modern carport (NETROnline 2022).

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14541 North Curry Avenue, 14501 Curry Avenue is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The has lost integrity of design, materials, and workmanship with a significant addition and replacement roofing, siding, windows, and doors. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14541 North Curry Avenue and 14501 Curry Avenue is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14541 North Curry Avenue and 14501 Curry Avenue

The property at 14541 North Curry Avenue and 14501 Curry Avenue is currently owned by Gary G. Koepplin. Tax assessor records show the last deed transaction of the property dating to April 16, 2004. A 1911 county atlas shows the parcel in Section 17, Township 3 N, Range 7 E, owned by W. N Mitchell (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. This building first appears between the 1957 and 1967 aerials. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. Aerials indicate the garage was a significant added to the north elevation sometime between 1993 and 1998, and there appear to be new windows, roofing, doors, new garage door, and a modern-age carport (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to residential development in Lodi during the twentieth century. Research did not reveal that the property played an important role in the agricultural or residential history of San Joaquin County. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property reflects elements of the Ranch style, such as its horizontal massing and one-story height. However, modifications including the large garage addition, new roof and windows have diminished its integrity. Other mire intact examples of Ranch-style residences exist in the region. Therefore, the property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified with a garage addition, new roofing, and a replacement garage door.

Setting is the physical environment of a historic property. Aerial photographs from 1967 show the neighboring residential properties in a very similar arrangement to what they are today. Therefore, the integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property has been modified by the garage addition, new roofing material, and new windows, which has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the property has been affected by the aforementioned changes.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey the character of a rural property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. Despite changes, this property is able to convey its association as a 1960s Ranch-style residence.

In conclusion, the property at 14541 North Curry Avenue, 14501 Curry Avenue does not meet any of the CRHR criteria and has lost integrity, therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .



Detail of modern-era garage addition on residence, view west (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # 14541 North Curry Avenue and 14501 Curry Avenue (Resource ID 29)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

 *Resource Name or #: (Assigned by recorder) 7106 East Kettleman Lane_(Resource ID 30)

P1. Other Identifier: N/A

*P2. Location: ϒ Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 17; MD B.M.

c. Address 7106 East Kettleman Lane, Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655198 mE/ 4219898 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-132-110

*P3a. Description:

This property consists of a Folk Victorian-style cottage and barn. The residence is an irregular-plan, one-story building with a metal-clad front-gable roof and vent in the apex of the gable end. A hip roof covers the full-width front porch and is supported by turned wooden columns. The porch features a decorative wood railing. The residence is clad in clapboard and appears to have a replacement front door. There are two tall single-hung rectangular wood windows at the façade. The barn has a metal-clad gable and shed roofs with corrugated sliding doors and wood siding. The property is set in a rural agricultural parcel east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property

*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1900 (Parcelquest.com 2022)

*P7. Owner and Address:
Steven. K & Laura M. Nickel
5631 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7106 East Kettleman Lane (Resource ID 30) ***NRHP Status Code** 3CS
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 7106 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Folk Victorian

***B6. Construction History:** Residence constructed in 1900 (Parcelquest.com 2022). Historic aerials indicate the barn was built sometime between 1957 and 1967. Visual inspection of the property indicates the front door is a replacement.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Architecture **Area** San Joaquin Valley
Period of Significance 1900 **Property Type** Residential
Applicable Criteria 3
The property at 7106 East Kettleman Lane is eligible for listing in the California Register of Historical Resources (CRHR) and therefore is a historical resource for purposes of the California Environmental Quality Act (CEQA). The property provides a good, intact example of a Folk Victorian-style rural residence. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

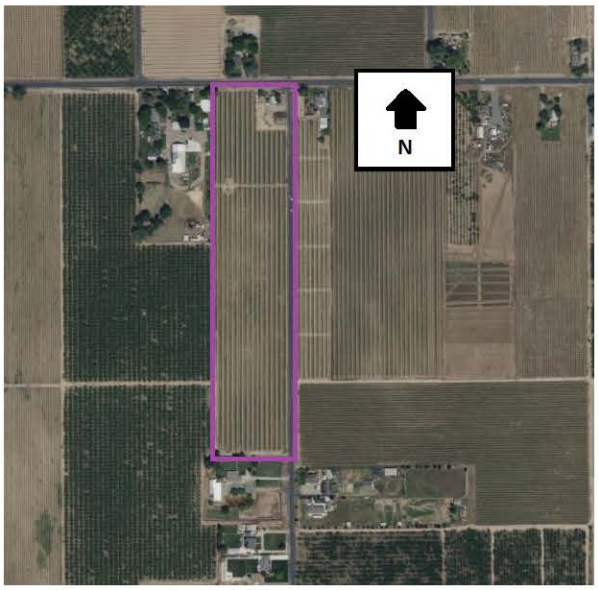
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 7106 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation network, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7106 East Kettleman Lane

The property at 7106 East Kettleman Lane is currently owned by Steven K. and Laura M. Nickel. Tax assessor records show the last transaction of the property dating to December 28, 1990. A 1911 county atlas shows the property in Section 17, Township 3 N, Range 7 E owned by T.G. Chappins (historicmapworks.com 2022). The earliest aerial photograph of the area dates from 1957 and shows this property and its surroundings largely as they are today. Research using Newspapers.com and Ancestry.com did not reveal any information about the current or previous owners.

The residence reflects the Folk Victorian Style, which was widely popular in the United States and California between 1870-1910. The style is characterized by its simple form, spindle work detailing, and applied decoration. The subject property is an excellent example of a Folk Victorian rural residence Lodi. It incorporates numerous character-defining features of this style, including its high-pitched roof with prominent gable, full-width front porch, spindle work porch detailing, clapboard exterior, and original windows.

This property is previously unrecorded and unevaluated. It has been modified through the installation of a replacement door, but otherwise is unchanged. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to residential development in the agricultural area east of Lodi, however, it is not a particularly good example of a farming property. Agricultural fields surround the well-preserved house, yet the property lacks farm-related historic-age outbuildings that convey its use as a farming property. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. Therefore, the property at 7106 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research determined that the property is currently owned by Steven K. and Laura M. Nickel. The residence does not appear to be associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, the property at 7106 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property embodies the Folk Victorian-style through its high-pitched roof with prominent gable, full-width front porch, spindle work porch detailing, clapboard exterior, and original windows. The property retains a high degree of integrity and changes appear to be limited to a replacement front door. Therefore, the property at 7106 East Kettleman Lane is eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7106 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design has been largely unaltered with the house retaining its siding, massing, spindle work, full-width front porch, and windows. Although the front door appears to have been replaced, the building still conveys its original appearance. Therefore, integrity of design is intact.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show this property and the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, it retains integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. With the exception of the replacement front door, original materials have been retained. This includes the clapboard exterior, original windows, and spindle work details that are character-defining features of the Folk Victorian Style. Therefore, the integrity of materials is intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has been largely unaltered since it was originally constructed and retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of a 1900s rural Folk Victorian-style property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of a Folk Victorian Style residence dating from the early twentieth century and continues to convey that association.

In conclusion, the property at 7106 East Kettleman Lane possesses architectural significance under CRHR Criterion 3 and retains all seven aspects of integrity. Therefore, the property is a historical resource for the purposes of CEQA. Its period of significance is 1900, corresponding to its construction date. The historic property boundary is limited to the footprint of the residence.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View south (Jacobs 2022).



Barn, view east (Jacobs 2022).

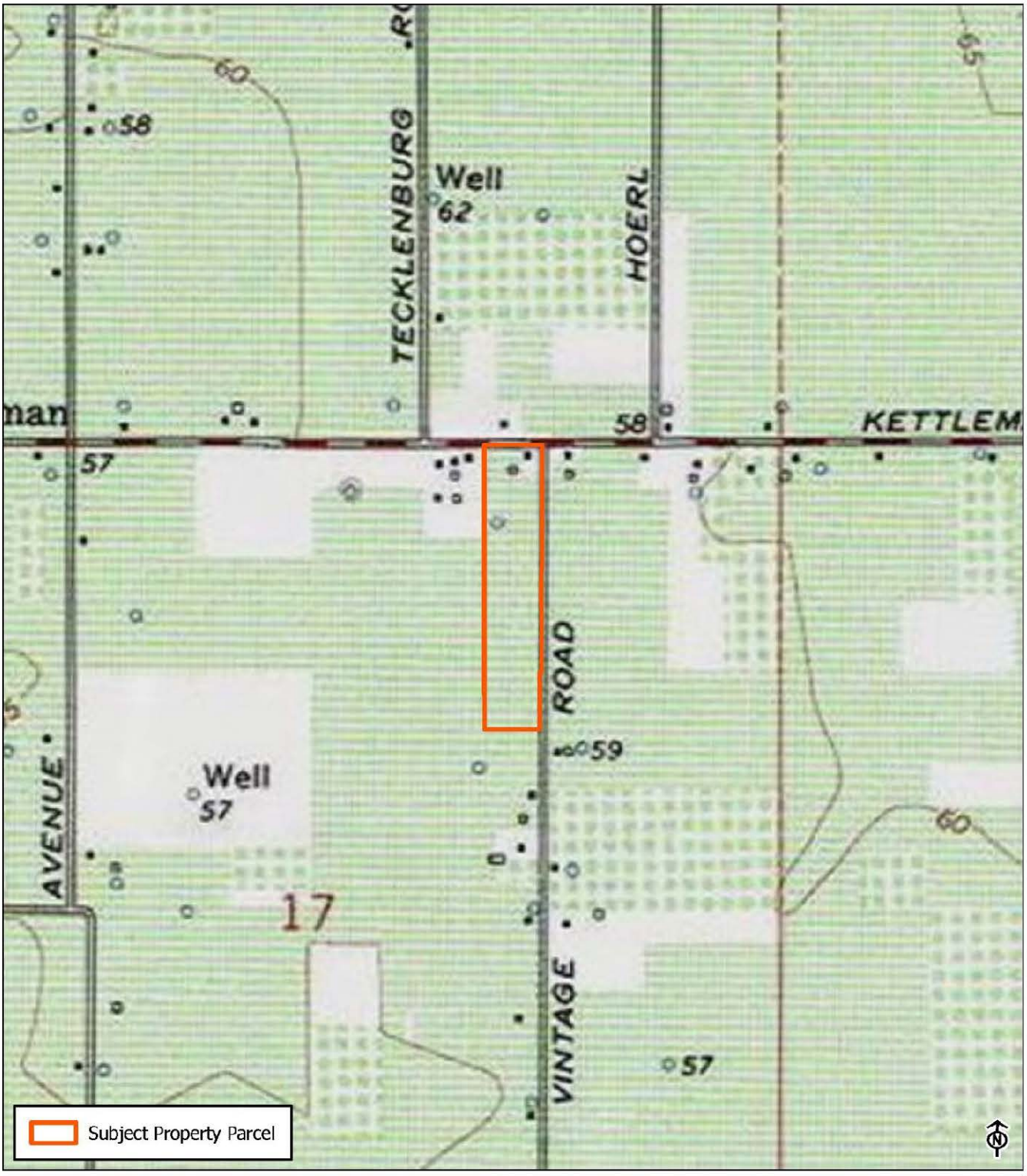
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 7106 East Kettleman Lane (Resource ID 30)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) 14453 North Vintage Road (Resource ID 31)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 17; MD B.M.
c. Address 14453 North Vintage Road Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655197 mE/ 4219605 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-132-420
*P3a. Description:
This property consists of a one-story Ranch-style home and detached garage. The residence has a dual-plane front-gable roof, vinyl and brick siding, and an attached carport at the west end of the facade. The main entrance is sheltered by an extension of the roof eave. There are large five-plane bay windows at the façade. The garage is a double-height corrugated-metal building with a rectangular footprint and two garage bays. The property is set in a rural residential area of east Lodi surrounded by agricultural land. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1960 (Parcelquest.com 2022)

*P7. Owner and Address:
Dorothy A. Kutlik
PO BOX 401
Lodi, CA 95253

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14453 North Vintage Road (Resource ID 31) ***NRHP Status Code** 6Z
Page 2 **of** 6

B1. Historic Name: N/A
B2. Common Name: 14453 North Vintage Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Residence constructed in 1960 (Parcelquest.com 2022). The garage was constructed sometime between 1960 and 1984 (NETROnline 2022). Visual inspection indicates the residence has replacement windows, roofing, and siding.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14453 North Vintage Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The has lost integrity and lacks significance. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14453 North Vintage Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14453 North Vintage Road

The property at 14453 North Vintage Road is currently owned by Dorothy A Kutlik. Tax assessor records show the last deed transaction of the property dating to July 3, 1996. A 1911 county atlas shows the parcel in Section 17, Township 3 N, Range 7 E, owned by T. M Jackson (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. This property first appears in the 1967 aerial (NETOnline 2022). Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. Visual inspection indicates the residence has replacement windows, roofing, and siding. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to the residential development of Lodi during the twentieth century. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County or that is embodies any important events or trends related to the residential development of the area. Therefore, the property at 14453 North Vintage Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property is currently owned by Dorothy A. Kutlik. The residence does not appear to be associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, the property at 14453 North Vintage Road Avenue is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property reflects elements of the Ranch style, such as its low massing and one-story height. However, modifications including replacement windows, roofing, and siding has diminished its integrity. Other more intact examples of Ranch-style residence exist in the region. Therefore, the property at 14541 North Curry Avenue, 14453 North Vintage Road is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14453 North Vintage Road appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been diminished due to replacement windows, roofing, and siding.

Setting is the physical environment of a historic property. Aerial photographs from 1967 show the neighboring residential properties in a very similar arrangement to what they are today. Therefore, the integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property has been modified by replacement windows, roofing, and siding, which has diminished integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The aforementioned changes also have diminished integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey the character of a 1960s Ranch-style rural property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property continues to convey its association as a 1960s Ranch-style rural residence.

In conclusion, the property at 14453 North Vintage Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14453 North Vintage Road (Resource ID 31)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 7150 East Kettleman Lane_(Resource ID 32)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 17; MD B.M.
c. Address 7150 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655283 mE/ 4219944 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-010
*P3a. Description:
This property consists of a Craftsman-style residence, tank house, and garage/carport. The residence is single story with an irregular footprint, and a jerkinhead roof with exposed rafter tails tucked under the eaves, clapboard siding, and a partial-width porch terminating in a jerkinhead roof supported by wood columns. There is a brick chimney at the west elevation, as well as a glazed entrance door. The tank house is a two-story rectangular building with a pyramidal roof and an exterior metal staircase; it appears to have been converted to living quarters. The carport and tank house were only partially visible from public vantage points. The property is located in a rural residential area of east Lodi on a vineyard. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1936 (Parcelquest.com 2022)

*P7. Owner and Address:
Jackie W. Metcalf
522 South Rose Street
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7150 East Kettleman Lane (Resource ID 32) ***NRHP Status Code** 3S
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 7150 Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** Residence, tank house, and garage constructed in 1936 (Parcelquest.com 2022). Windows on the residence appear to be replacements but the window openings retain their original size and placement.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Rural Residential Development; Architecture **Area** San Joaquin Valley
Period of Significance 1936 **Property Type** Residential
Applicable Criteria 1, 3
The property at 7150 Kettleman Lane is eligible for listing in the California Register of Historical Resources (CRHR) and is a historical resource for purposes of the California Environmental Quality Act (CEQA). The subject property provides a good, intact example of a 1930s rural residential property including an intact tank house, Craftsman-style residence, and an associated garage. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 7150 Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7150 East Kettleman Lane

The property at 7150 Kettleman Lane is currently owned by Jackie W. Metcalf. Tax assessor records show the last deed transaction of the property dating to July 27, 1998. A 1911 county atlas shows the parcel in Section 17, Township 3 N, Range 7 E; the east side of the parcel was owned by Charles Rossi and the west by J. Rohrbac. (historicmapworks.com 2023). The earliest aerial photograph of the area dates to 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners (NETROnline 2022).

This property is previously unrecorded and unevaluated. Changes to the residence appear to be limited to replacement of the original roofing material with composite shingle and replacement windows. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has significant associations with early rural residential development on smaller lots in Lodi. These small farms, typically consisting of agricultural land, a residence, and outbuildings, were commonly built during the early-twentieth century as the population outside of Lodi and within agricultural areas of the San Joaquin Valley increased. This well-preserved property demonstrates its association with the agricultural settlement phase of Lodi and the trend of small "ranchette" style settlements outside San Joaquin Valley towns. Therefore, the property at 7150 Kettleman Lane is eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property is currently owned by Jackie W. Metcalf. The residence does not appear to be associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, the property at 7150 Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property presents a representative example of a 1930s Craftsman-style rural residence, including an intact tank house and garage. The residence expresses the style through its asymmetrical massing, jerkinhead roof with wide eaves and exposed rafter tails, and partial-width porch. The intact tank house at the rear of the residence is a common design feature of early twentieth-century rural residential properties. Despite the tank house being converted to living space, it is still identifiable as a former tank house. Overall, the property clearly conveys its construction date, style, and configuration. Therefore, the property at 7150 Kettleman Lane is eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7150 Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Despite alterations, this property conveys its original appearance. It retains integrity of design.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring residential properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Integrity of materials is slightly diminished. With the exception of the replacement roofing and several replacement windows, other original materials are intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Integrity of materials is slightly diminished due to the aforementioned changes.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of a rural property from its period of construction. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property would be recognizable to persons from the past and conveys its association as a 1930s rural residential property.

In conclusion, the property at 7150 Kettleman Lane meets CRHR Criteria 1 and 3 and retains its overall integrity. The former tank house and garage are contributing resources. The property is a historical resource for the purposes of CEQA. The period of significance for the property is 1936, corresponding to its construction date. The historic property boundary corresponds to the parcel lines.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



View south (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 7150 East Kettleman Lane (Resource ID 32)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 14496 North Vintage Road (Resource ID 33)
P1. Other Identifier: N/A
*P2. Location: ϒ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N ; R 7E ; NE 1/4 of Sec 17 ; MD B.M.
c. Address 14496 North Vintage Road (Resource ID 33), Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655467 mE/ 4219651 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-050
*P3a. Description:
This property is a heavily modified residence built in 1911. The residence is a two-story rectangular-plan building with a front-gable roof with gable wall dormers at the south and north elevations. There is a dropped shed roof over the enclosed front porch, with one-over-one aluminum windows and a glazed door. The siding of the residence is stucco. The parcel has other non-historic-era buildings including two barns and an additional residence. The parcel is set within a rural agricultural and residential area east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ϒ Prehistoric ϒ Both
1911 (Parcelquest.com 2022)

*P7. Owner and Address:
Ione V. Taunton
PO Box 1358
Lockeford, CA 95237

*P8. Recorded by: (Name, affiliation, and address) A. Reese
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
ϒArtifact Record ϒPhotograph Record ϒ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14496 North Vintage Road (Resource ID 33) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 14496 North Vintage Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed in 1911 (Parcelquest.com 2022). Visual inspection indicates there has been a large addition added covering the front entrance, and that the residence has replacement windows, doors, roofing, and siding.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance:**
Theme Residential Development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14496 North Vintage Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

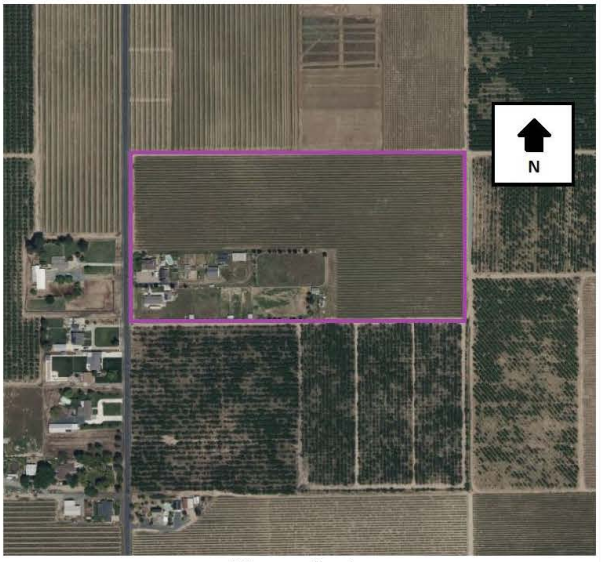
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** A. Reese, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14496 North Vintage Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14496 North Vintage Road

The property at 14496 North Vintage Road Avenue is currently owned by Ione V. Taunton. Tax assessor records show the last deed transaction of the property dating to June 13, 2001. A 1911 county atlas shows the parcel in Section 17, Township 3 N, Range 7 E, owned by E. Ruppuhn (historicmapworks.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property as agricultural with scattered residential and agricultural development. Research using Newspapers.com and Ancestry.com did not reveal any additional information about the property or its owners.

This property is previously unrecorded and unevaluated. The residence has a largeone-story addition to the façade as well as replacement roofing, siding, windows, doors, and front porch. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to rural residential development in Lodi during the early twentieth century. However, research did not reveal that the property played an important role in the agricultural or residential history of San Joaquin County. Therefore, the property at 14496 North Vintage Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property is currently owned by Ione V. Taunton. The residence does not appear to be associated with any significant achievements of any persons. Therefore, the property at 14496 North Vintage Road is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property has extensive modifications, including the façade addition, new roof, windows, siding, and doors. As a result, the property has lost its integrity of design, materials, and workmanship and is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14496 North Vintage Road Avenue appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been jeopardized due to the large addition, new roofing, siding, windows, and doors.

Setting is the physical environment of a historic property. Aerial photographs from 1957 to 1984 show the neighboring residential properties in a very similar arrangement to what they are today. However, there is a visual incursion of two non-historic-era barns and one non-historic-era residence on the property which has diminished the integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of this property have been modified by the addition, new roofing, siding, windows, and doors. This has resulted in a diminishment of the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the property has been affected by the aforementioned alterations.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property, overall, it continues to convey the character of a rural property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property conveys its association as an early twentieth-century rural residence, despite changes.

In conclusion, the property at 14496 North Vintage Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California.* Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. https://www.historicmapworks.com/Map/US/1579997/Page+025/. Accessed January 2023.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. The Delta Lands of California. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed January 2023. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California.* Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html .

P5. Photographs (continued)



View of addition at facade, view east (Jacobs 2022).

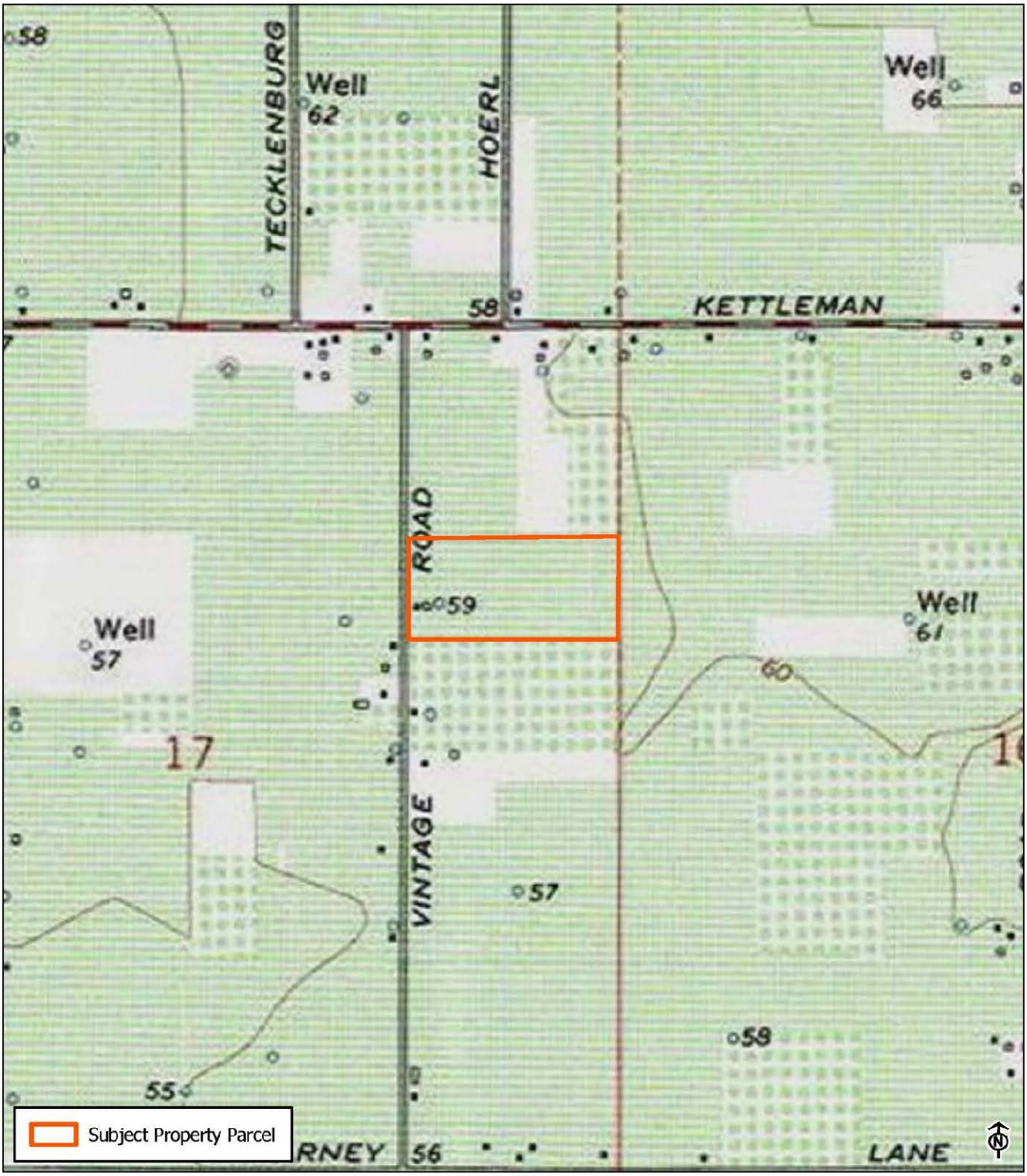
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HR I#
Trinomial

*Resource Name or # (Assigned by recorder) 14496 North Vintage Road (Resource ID 33)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

Page 1 of 8 *Resource Name or #: (Assigned by recorder) 7280 East Kettleman Lane (Resource ID 34)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 17; MD B.M.
c. Address 7280 East Kettleman Lane City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655382 mE/ 42219947 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-020

*P3a. Description:
The property at 7280 East Kettleman Lane is a rural residence and agricultural property consisting of a one-story Craftsman-style wood-frame house, one outbuilding over 45 years of age, and two modern-era outbuildings. The house has a rectangular footprint and a three-plane low-pitch front-gable roof sheathed in asphalt shingles. The roof has a deep overhang, decorative braces, and simple decorative gable ends. The house has a partial width covered porch, glazed wooden door, and clapboard siding. The roof of the porch is supported by battered wood columns resting on brick pedestals. A concrete walkway extends from East Kettleman Lane to the porch. A level lawn flanks the walkway. Behind (south) the house are the remaining portions of this 15-acre parcel are agricultural land. The outbuildings also are behind the house and are not visible from public vantage points. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022
*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1901 (Parcelquest.com 2022)
*P7. Owner and Address:
Ken Mikawa
7280 East Kettleman Lane
Lodi, CA 95240
*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833
*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7280 East Kettleman Lane (Resource ID 34) ***NRHP Status Code** 3CS
Page 2 of 8

B1. Historic Name: N/A
B2. Common Name: 7280 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** 1901 – residence constructed (Parcelquest.com 2022). Although the recorded date of construction is 1901, this most likely relates to an earlier building on the property because that date is too early for the Craftsman Style, which this property clearly expresses. The actual construction date is estimated to be sometime between 1901 and1935. Sometime between 1967 and 1984 the largest of the outbuildings was added directly behind the house. The eastern edge of the front yard was incorporated into the agricultural field after 1957 and ca. 1990 a small tree in a brick lined bed was added in the west front yard (NETROnline 2022). The house and walkways to the front door and around the house have a high level of integrity.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Architecture **Area** San Joaquin Valley
Period of Significance 1901-1935 **Property Type** Residential
Applicable Criteria 3
The property at 7280 East Kettleman Lane meets Criterion 3 for listing in the California Register of Historical Resources (CRHR) and is a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has a high degree of all seven aspects of integrity. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 7280 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and also passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation network, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7280 East Kettleman Lane

The property at 7280 East Kettleman Lane is currently owned by Ken Mikawa, who has owned the farm for 25 years growing grapes (Buzzfile 2023). Tax assessor records show a quit claim deed transaction of the property dating to November 4, 1999. Research did not find that the property had associations with the Mikawa family immediately before or after the World War II, when many Japanese Americans were interned on the West Coast. A 1911 county atlas illustrates the road, known today as East Kettleman Lane, forming the northern boundary of Section 17, Township 3 N, Range 7 E (historicmapworks.com). This property, located directly south of East Kettleman Lane, was part of what appears to be a 40-acre parcel owned by D. B. Keen and G. Lange. It is undetermined when it was reduced to a 15-acre parcel. The earliest aerial photograph reviewed dates to 1957 and shows this property and its surroundings largely as they are today.

The residence is built in the Craftsman Style, which was widely popular in the United States and California between 1905 and 1930, is typically one to one-and-a-half stories tall and characterized by a low-pitched, gable roof (sometimes hipped) with oversized eaves, exposed roof rafters, full or partial-width porches supported by tapered square columns or battered columns, and windows placed in groups or bands. The walls are usually clad with clapboard, shingle, stone, brick, and clinker brick. Early examples exhibit characteristics of the transitional Arts and Crafts Style (McAlester and McAlester 1984). The house is an excellent early example of a small Craftsman style rural residential house. It has numerous features reflective of this style including: an overhanging roof with decorative braces and gable ends, a partial width covered porch supported by wooden columns with battered sides, a glazed wooden door, and clapboard siding.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry, however, it is not a particularly good example of a farming property. Agricultural fields surround the well-preserved house, yet the property lacks strong associations with farm-related outbuildings from its date of construction or early use. Research did not reveal that the property played an important role in the agricultural history of San Joaquin County. Therefore, the property at 7280 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research determined that the property is currently owned by Ken Mikawa, who has raised grapes on the property for 25 years. The residence does not appear to be associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, the property at 7280 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property embodies the distinctive characteristics of the Craftsman Style. This front-gabled house has classic Craftsman-style detailing, such as a partial-width front porch with its roof supported by battered wood columns, exposed rafter tails, a low-pitched roof with wide unenclosed eaves, triangular knee braces, and its original front door. The gable ends have artfully designed vertical wood venting. Therefore, the property at 7280 East Kettleman Lane is eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7280 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design has been largely unaltered with the house retaining its original siding, windows, front door, and decorative eaves, rafter tails, and porch columns. The concrete walkways around the house are intact. The main modification is the addition of outbuildings behind the house circa the 1970s-1980s. The buildings were not visible from public vantage points and do not detract from the building's design.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show this property and the neighboring agricultural properties in a very similar arrangement to what they are today. As noted, the addition of outbuildings behind the house is a minor change as it does not disrupt the primary views of the building and property from East Kettleman Lane.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. As mentioned, most of the original materials of the property have been retained. Therefore, the integrity of materials is intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. As mentioned, the property has been largely unaltered since it was originally constructed and retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property continues to convey the character of a rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. The property is an example of the Craftsman Style dating to the early twentieth century and continues to convey that association.

In conclusion, the property at 7280 East Kettleman Lane possesses architectural significance under CRHR Criterion 3 and retains all seven aspects of integrity. Therefore, the property is a historical resource for the purposes of CEQA. The property has a period of significance of 1905-1935, corresponding with the period when Craftsman Style architecture became popular and relating to the approximate date of construction of the house. The boundary of the historic property includes the driveway west of the house, the yard and walkways between the house and East Kettleman Lane, and the level grassy lawn east and north of the house extending approximately 20 feet from footprint of the house.

Section B12. References (continued)

Buzzfile. 2023. Ken Mikawa. https://www.buzzfile.com/business/Kenneth-Mikawa-209-369-4916. Accessed January 2023.

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Martin, A.A. 1904. *The Delta Lands of California*. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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Section P5. Photographs (continued)



View facing southwest showing the north façade of the home and the front yard (Jacobs 2022).

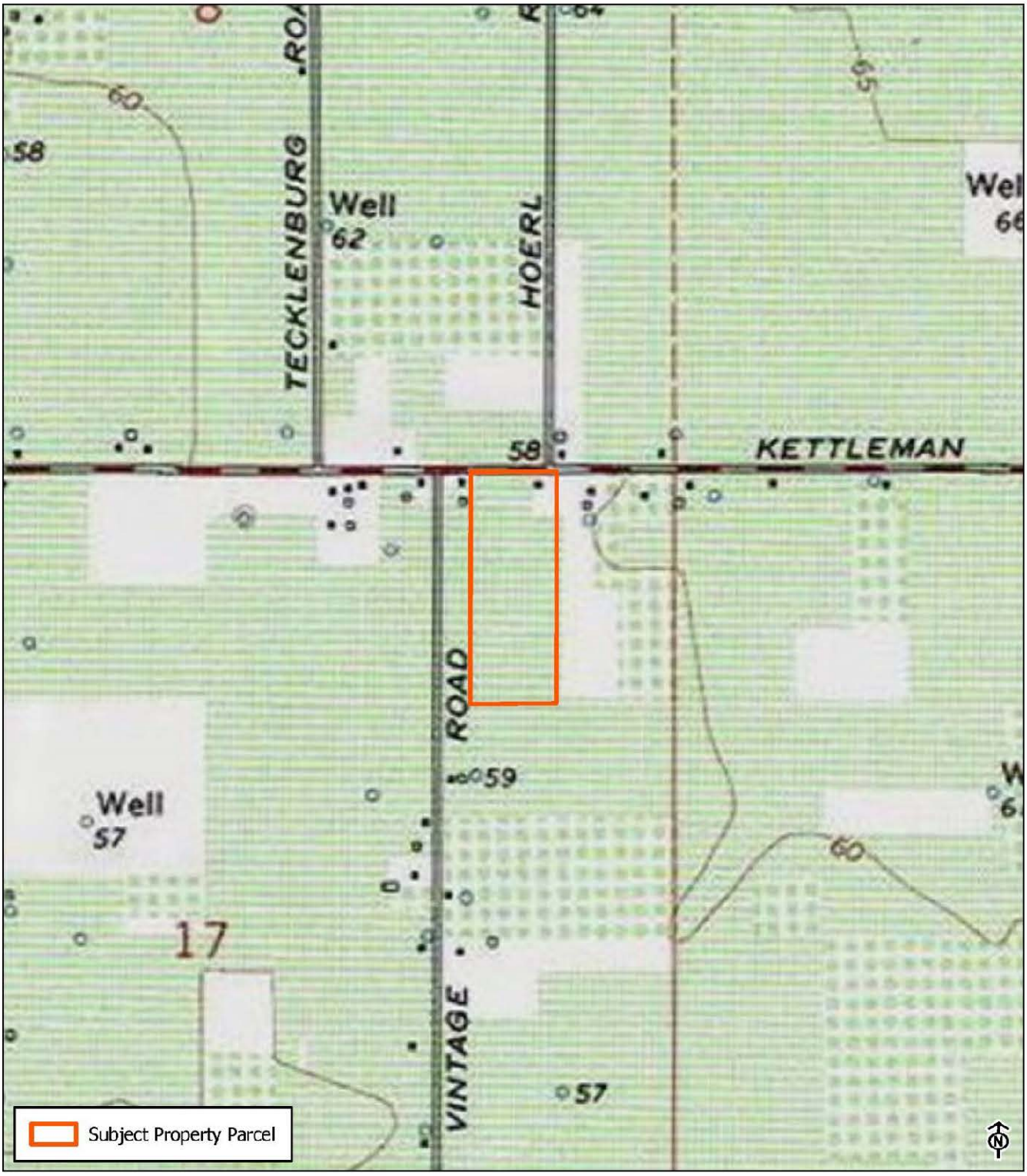
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 7280 East Kettleman Lane (Resource ID 34)

*Map Name: Waterloo 1972 *Scale: 1:24,000 *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 7362 East Kettleman Lane (Resource ID 35)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 17; MD B.M.
c. Address 7362 East Kettleman Lane City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 653001 mE/ 4221672 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-030

*P3a. Description:
The 10-acre rural property at 7362 East Kettleman Lane is a two-story wood frame Craftsman Style building with a garage and barn behind the house that are not clearly visible from public vantage points. A modern-era horse corral is east of the house. The house has a front (north) facing gable roof with gable dormers on its east and west sides. Knee brackets are tucked under eaves. It is clad in what appears to be clapboard and has replacement aluminum windows. A replacement door is located at the main entrance on the building's northeast corner, which is chamfered. A wide asphalt driveway runs along the east side of the level front yard and the house leading to the outbuildings south of the house. Numerous abandoned vehicles are behind the house. Only the north portions of the parcel have been farmed in recent years. The southern half of the property is an uncultivated field. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southwest, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric ☐ Both
1915 (Parcelquest.com 2022)

*P7. Owner and Address:
Mason Ritzman, Prop Corp.
PO Box 836
Woodbridge, CA 95258

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7362 East Kettleman Lane (Resource ID 35) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 7362 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** 1910 – residence constructed (Parcelquest.com 2022). The garage and barn behind the house are present on the 1957 aerial, which is the earliest available for the area, although the footprint of the garage appears to have been expanded in the 1990s. Sometime between 1967 and 1984, mature landscape trees were removed from the yard surrounding the house and outbuildings. Between 1998 and 2000, the area east of the driveway was cleared of vegetation and is currently used as a horse corral (NETROnline 2022). The windows and front door on the residence appear to have been replaced with the past circa 50 years.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 7362 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity of design, workmanship, feeling, and setting due to the replacement of windows and front door on the house and the modification to the landscape design of the property. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section 10B. Significance (continued)

Historic Context

The property at 7362 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7362 East Kettleman Lane

The property at 7362 East Kettleman Lane is currently owned by the Mason Ritzman Property Corporation. Tax assessor records show the last deed transaction of the property dating to February 19, 1988. A 1911 county atlas illustrates the road, known today as Kettleman Lane, forming the northern boundary of Section 17, Township 3 N, Range 7 E. This property, located directly south of E Kettleman Lane, was owned by G. M. Langetold in 1911, one year after the house on the property was built (historicmapworks.com 2023). The boundaries of the property appear to be consistent with the property's boundaries in 1911. The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property retains its agricultural character (NETROnline 2022).

This property is previously unrecorded and unevaluated. The house has been modified with the addition of modern replacement windows and a new front door within the past circa 50 years. The landscaping around the house and outbuildings has been modified since the 1957 aerial with mature landscape trees removed from the site, widening of the driveway, and modification of the area east of the driveway from farmland to a corral for a horse. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming property due to modifications to the house, outbuildings, and setting. Research did not reveal that the property played an important role in the development of the area or the agricultural history of San Joaquin County. Therefore, the property at 7362 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property was owned by G.M. Langetold in 1911, one year after it was built. Research did not identify that Langetold made any significant achievements, nor did it uncover any other past owners. Therefore, the property at 7362 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks distinctive characteristics of the Craftsman Style. This front-gabled-roofed house has elements of the Craftsman style such as knee braces supporting its broad overhanging roof, however, this relatively plain house has replacement windows and a replacement door. Other more intact examples of resources with more character-defining features of the Craftsman Style exist. Therefore, the property at 7362 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7362 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property has been modified by replacement windows and landscape plan changes including widening the driveway, removal of mature landscape trees, and reusing previous agricultural land for a horse corral northeast of the house.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. As mentioned, the windows and main door have been replaced, which has resulted in a diminishment of the integrity of materials from its period of construction.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has lost integrity of workmanship due to the replacement windows, front door, and loss of the original landscape design, which included mature trees, no corral, and a narrower driveway.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Although some modifications have occurred to the property overall it continues to convey the character of a rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event therefore does not retain integrity of association.

In conclusion, the property at 7362 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Martin, A.A. 1904. *The Delta Lands of California*. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

Section P5. Photographs (continued)



View facing south showing modern horse corral and broad driveway east of the house (Jacobs 2022).

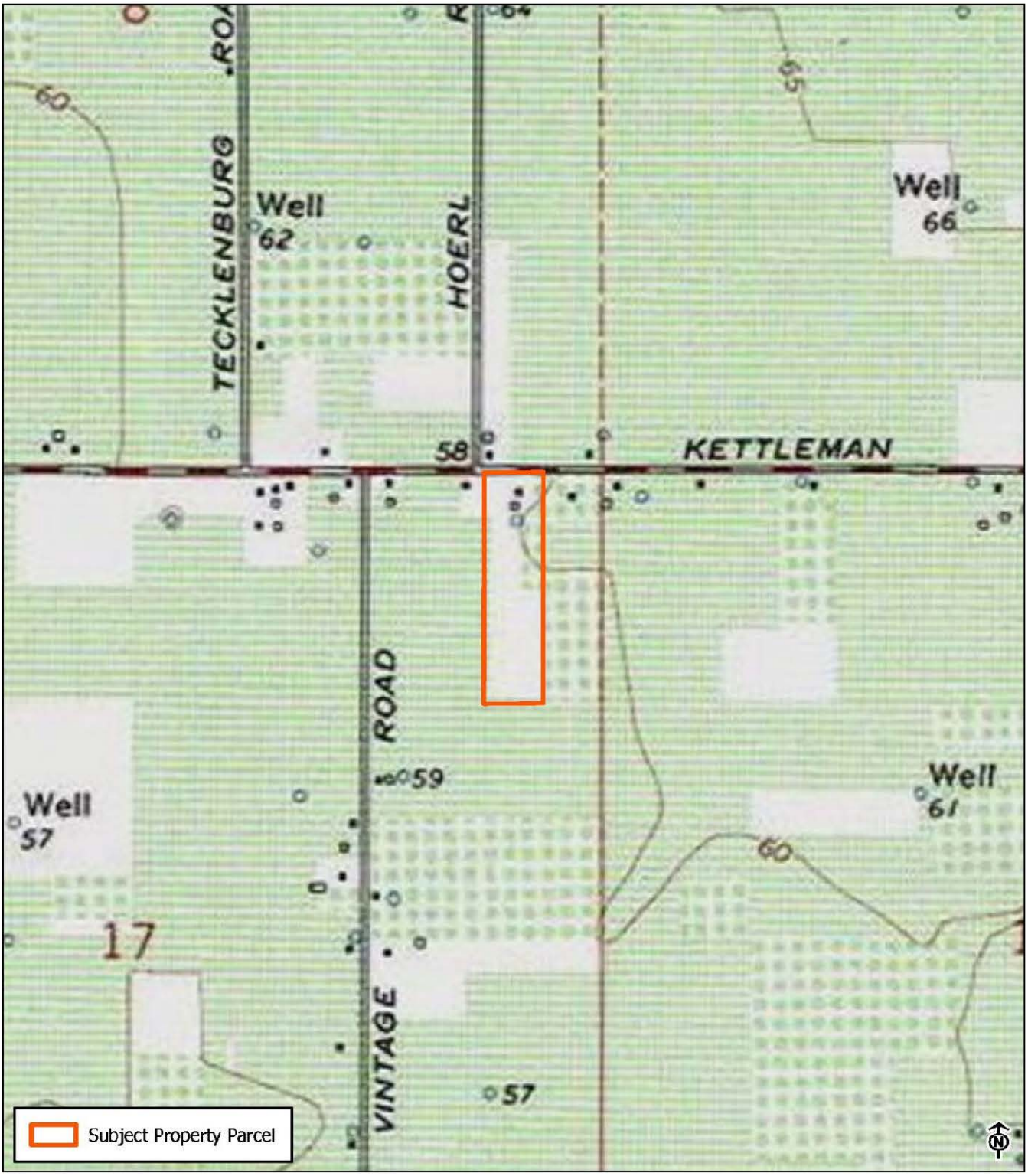
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 7362 East Kettleman Lane (Resource ID 35)

*Map Name: Waterloo 1972 *Scale: 1:24,000 *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 7452 East Kettleman Lane (Resource ID 36)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 7; MD B.M.
c. Address 7452 East Kettleman Lane City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655610 mE/ 4219955 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-040

*P3a. Description:
The 10-acre residential property at 7452 East Kettleman Lane includes a house, yard, and outbuildings in its northwest corner. The remainder of the property is a vineyard. The one-story residence with a side-gable roof, clapboard siding, a covered entry porch supported by plain columns. It is slightly obscured from public vantage points due to mature tree cover. The property has an associated outbuilding that was not visible from the public vantage point. The house sits at the north end of the large parcel separated from the road by a level lawn, two orange trees, and one large pine tree. Additional mature deciduous and coniferous trees are located behind the house. A gravel driveway runs along the west side of the house providing access to the front door located on the building's west elevation and the outbuilding. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1915 (Parcelquest.com 2022)

*P7. Owner and Address:
Floyd and Linda Baker
7319 E Kettelman Lane
Lodi, CA 95285

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7452 East Kettleman Lane (Resource ID 36) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 7452 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** 1915 – residence constructed (Parcelquest.com 2022). The garage is directly behind the house and is present on the 1957 aerial, which is the earliest available for the area. Between 1957 and 1967 a gable-roof barn with sheds on either side was removed from the southern edge of the residential area of the parcel. The area around the residential portion of the parcel appears to have been continuously farmed since 1957. In recent years a concrete pad with vertically oriented propane tank was added to the northeast portion of the front yard (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 7452 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property retains integrity but does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section 10B. Significance (continued)

Historic Context

The property at 7452 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7452 East Kettleman Lane

The property at 7452 East Kettleman Lane is currently owned by Floyd and Linda Baker. It is undetermined when they purchased the property. A 1911 county atlas illustrates the road, known today as Kettleman Lane, forming the northern boundary of Section 17, Township 3 N, Range 7 E. This property, located directly south of East Kettleman Lane, was owned by E. Wittmayer in 1911, four years prior to the construction of this house (historicmapworks.com 2023). The boundaries of the property appear to be consistent with the property's boundaries in 1911. The 1930 U.S. census lists Emil Wittmayer and his wife Hilda lived in Lodie with a daughter, son and Hilda's mother. Emil's parents were born in Russia and he was born in South Dakota (ancestry.com 2023). The earliest aerial photograph of the area dates from 1957 and shows the area surrounding this property has retained its agricultural character similar to that period (NETROnline 2022).

This property is previously unrecorded and unevaluated. The gable-roof house lacks design characteristics of a particular architectural style. It reflects common early twentieth century house designs with wood clapboard siding, a side-gable roof, a small porch in the middle of the west facing façade, and wood-frame multi-light windows. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming property due to the removal of the historical barn once located south of the house. Research did not reveal that the property played an important role in the development of the area or agricultural history of San Joaquin County. Therefore, the property at 7452 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research did not determine if Wittmayer, who owned the property in 1911, built the house in 1915. The residence does not appear to be associated with any significant achievements of any individual persons. Therefore, the property at 7452 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks distinctive characteristics of a particular style. This side-gable-roof house reflects a common twentieth century residential design. It is unremarkable in design and lacks distinction under CRHR Criterion 3. Therefore, the property at 7362 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7452 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the house is largely intact. The overall design of the farming complex, however, has undergone a noteworthy modification with the removal of the barn once located south of the house. A modern propane tank has also been added to the front east lawn.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property retains integrity of materials because the house materials appear intact (the materials of the outbuilding behind the house are not visible from public vantage points).

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property retains integrity of workmanship due to there being few modifications to the house.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property continues to convey the character of a rural residential property. Therefore, the property retains integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, although it retains integirty, the property at 7452 East Kettleman Lane retains integrity yet does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California.* Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



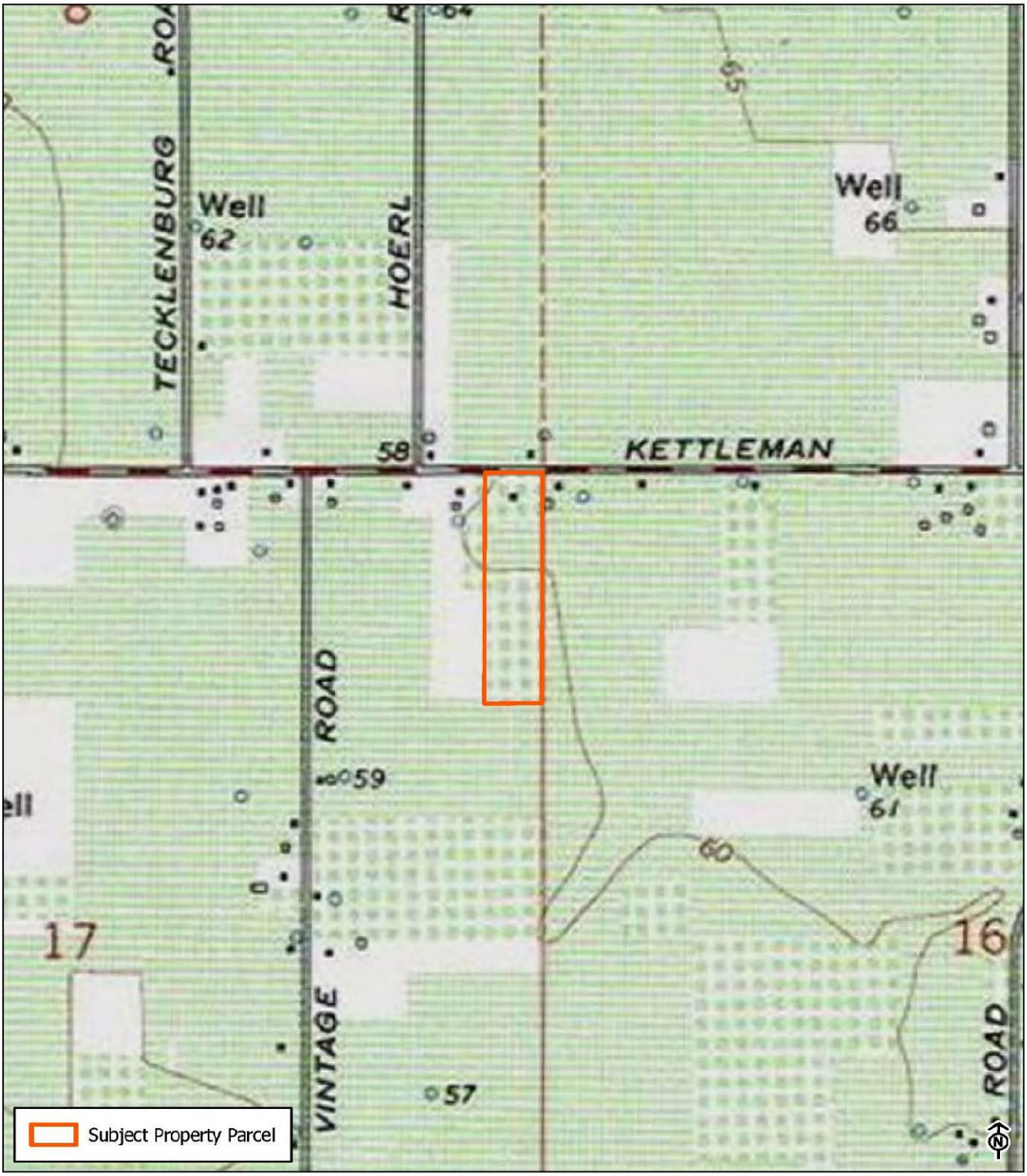
North elevation and front yard facing south showing vineyard surrounding house (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 7452 East Kettleman Lane (Resource ID 36)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) 7540 East Kettleman Lane (Resource ID 37)

P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted

*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 16; MD B.M.

c. Address 7540 East Kettleman Lane City Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 655744 mE/ 4219925 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-270

*P3a. Description:

The 15-acre rural residential property at 7540 East Kettleman Lane includes a Ranch Style house, yard, and two outbuildings (a double height shop and a garage) in its northwest corner. The remainder of the property consists of a vineyard. The house is a one-story residence with a hipped tile roof, stucco siding, and replacement windows. The shop is a pole building sheathed with corrugated metal and has three garage bays. The garage and much of the residence are obscured behind tall fencing and dense vegetation. A gravel driveway runs along the west side of the house providing access to the front door located on the building's west elevation and the outbuildings behind the house. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property

*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1958 (Parcelquest.com 2022)

*P7. Owner and Address:
James P. & Sandra M. Hale
7540 Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 7540 East Kettleman Lane (Resource ID 37) ***NRHP Status Code** 6Z
Page 2 of 8

B1. Historic Name: N/A
B2. Common Name: 7540 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1958 – residence constructed (Parcelquest.com 2022). The garage and shop were built in the early 1990s in the location where two smaller gable roof outbuildings had been located south of the house on the edge of the agricultural field. The house windows, siding, and roofing materials are replacements dating from within the past circa 40 years. The area around the residential portion of the parcel appears to have been continuously farmed since 1957 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 7540 East Kettleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

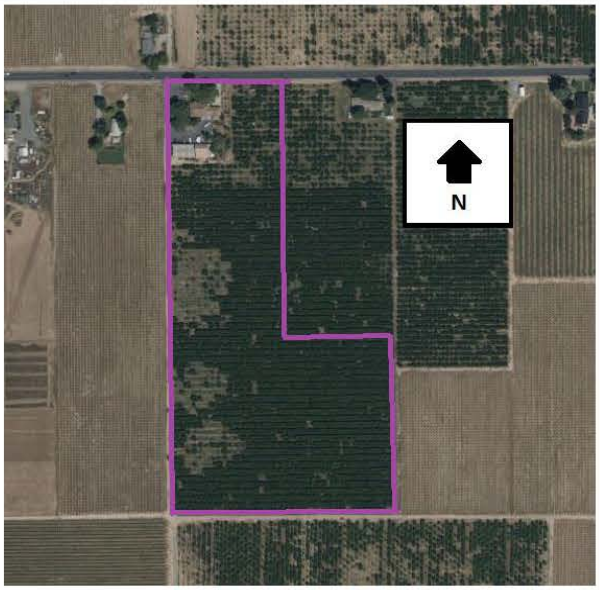
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not To Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 7540 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

7540 East Kettleman Lane

The property at 7540 East Kettleman Lane is currently owned by James and Sandra Hale. A 1911 county atlas illustrates the road, known today as Kettleman Lane, forming the northern boundary of Section 16, Township 3 N, Range 7 E. This property, located directly south of East Kettleman Lane, was owned by K.G. Boumbach in 1911 (historicmapworks.com 2023). Research did not identify relevant information about K.C. Boumbach or the Hales. The property was 20-acres in 1911 and is only 15-acres today. The earliest aerial photograph of the area dates from 1957 and shows the area surrounding the property as retaining its agricultural character (NETROnline 2022).

This property is previously unrecorded and unevaluated. The house was constructed in 1958 has been modified with replacement windows, roofing, and siding. The complex of buildings on the property and the driveway have changed over time. The 1957 aerial shows at least three buildings behind the house with smaller footprints than the current outbuildings in this location. The smaller no-longer extant buildings may have been used as farm laborer's quarters. Also, the driveway accessing the area south of the house has been widened considerably and covered with asphalt. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming property due to the removal of the historical barn once located south of the house. Research did not reveal the property played an important role in local development of the area or the agricultural history of San Joaquin County. Therefore, the property at 7540 East Kettleman Lane is not eligible for the CRHR under Criterion 1

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has not determined who was the owner of this property when it was built in 1958. The residence is not associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, the property at 7540 East Kettleman Lane is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks distinctive characteristics of a particular style. This Ranch-Style house has undergone modifications to its windows, doors and siding; furthermore, the property has lost buildings south of the house and the circulation systems have been modified. The house lacks design and lacks distinction as a Ranch Style house or as an agricultural property type under CRHR Criterion 3. Therefore, the property at 7540 East Kettleman Lane is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 7540 East Kettleman Lane appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the house is no longer intact due to replacement materials. The overall design of the farming complex has undergone a noteworthy modification with the removal of three small buildings behind the house and the addition of two large outbuildings. The driveway has also been widened and covered with asphalt creating a large, paved space within the residential area.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has lost integrity of materials because the house's windows, siding, and roofing are replacements.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property has lost workmanship due to the replacement of materials throughout the house.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property continues to convey the character of a rural residential property, however, as a Ranch Style property it has been modified with elements reflective not of the original design but rather of the circa 1980s.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 7540 East Kettleman Lane does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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Martin, A.A. 1904. *The Delta Lands of California*. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

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Section P5. Photographs (continued)



Overview of property facing south from East Kettleman Lane (Jacobs 2022).



View facing southwest showing the outbuildings behind the house (Jacobs 2022).

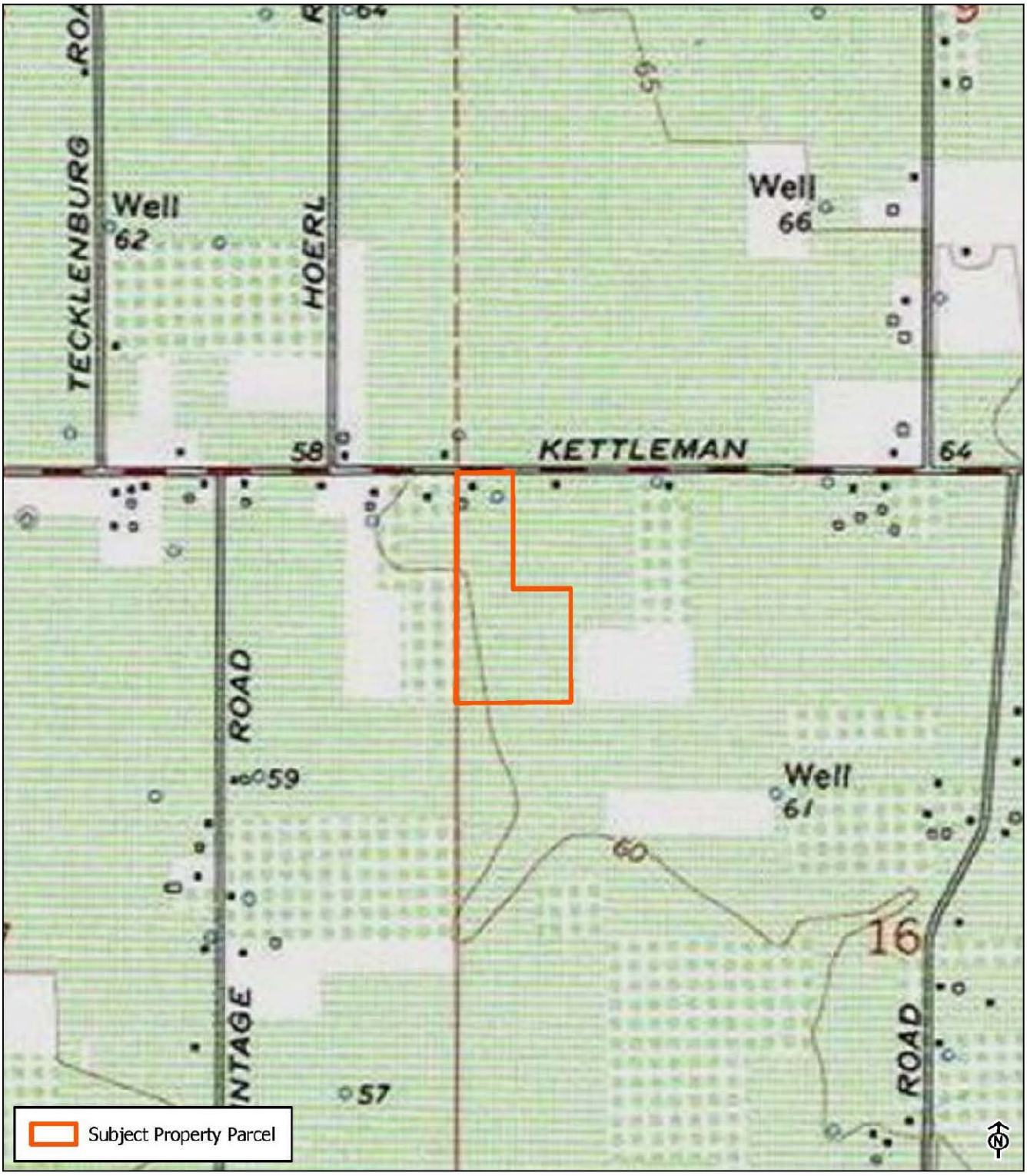
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 7540 East Kettleman Lane (Resource ID 37)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) 14537 North Alpine Road (Resource ID 38)
P1. Other Identifier: J & M Farms
*P2. **Location:** ☐ **Not for Publication** ☑ **Unrestricted**
*a. **County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. **USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; NW **1/4 of Sec** 16 ; MD **B.M.**
c. Address 14537 North Alpine Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 656125 mE/ 4219695 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-190

***P3a. Description:**
The 32.7-acre property at 14537 North Alpine Road appears to be a single-family house located south of a large vineyard. It is undetermined if it is used today as a storage building or used for housing. A gas propane tank is located on the east side of the building. The whole parcel is a large rectangle that extends west of North Alpine Road. The small building, constructed in 1935, is located along the southern edge of the parcel in its eastern half. The property includes the aforementioned historic-era building as well as non-historic era farm buildings at the west end of the property (built circa 2002). The non-historic-era buildings were not visible from public vantage points. The historic-era building has a rectangular plan, a single-story, with a front gable roof. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 2. Single Family Property
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
1935 (Parcelquest.com 2022)

***P7. Owner and Address:**
J & M Farms
P.O. Box 577
Acampo, CA 95220

***P8. Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14537 North Alpine Road (Resource ID 38) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 14537 North Alpine Road

B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** 1935 – residence constructed (Parcelquest.com 2022). An aerial photograph from 1957 shows the property included small yards around the house with shrubs and landscaped areas. Circa 2010 the landscaping surrounding the house was removed and a large gravel parking area was added north of the property. The setting around the property remains agricultural since 1957 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: **b. Builder**:

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A

The property at 14547 North Alpine Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

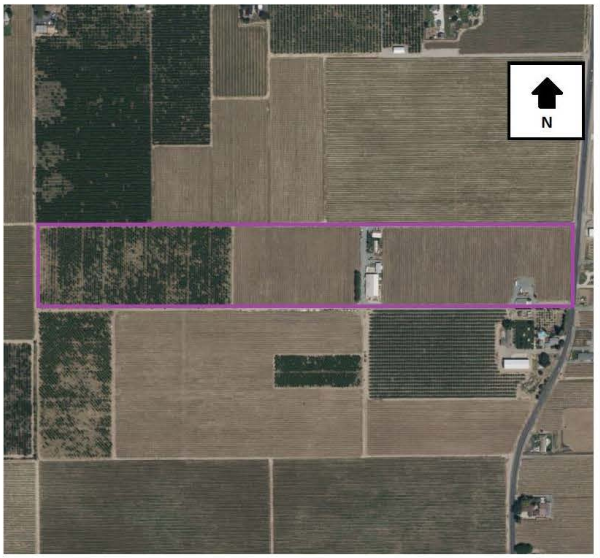
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14537 North Alpine Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14537 North Alpine Road

The property at 14537 North Alpine Road is currently owned by J & M Farms. A 1911 county atlas illustrates the road, known today as N Alpine Road, extending north-south through the middle of Section 16, Township 3 N, Range 7 E. This property, located west of the road and was owned by John Wittmayer at that time (historicmapworks.com 2023). Various members of the Wittmayer family owned parcels of land east of Lodi. A 1946 newspaper article lists John Wittmayer selling 80 acres of grain land located seven miles east of Lodie (Lodi News Sentinel 1946). The earliest aerial photograph of the area dates from 1957 and shows the main building on this property surrounded by grass and shrubs without the existing level gravel area or the parking lot. J & M Farms have owned this property since at least 1990 based on research. The Secretary of State has five entries for J & M Farms with the only active one being owned by Murphy Sabatino. No information relevant to this property was found about Sabatino.

This property is previously unrecorded and unevaluated. Aerial photographs suggest this side-gable building was originally used as a single-family house and is today used for farm purposes or possibly for farmer housing. The modified house lacks design characteristics of a particular architectural style. It reflects common early twentieth-century house designs with wood clapboard siding and a side-gable roof and overhanging eaves. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to the large gravel parking area added to the property that removed original landscaping around the house. Research did not reveal that the property played an important role in the development of the area or the agricultural history of San Joaquin County. Therefore, the property at 14537 North Alpine Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not determine who owned the property during the historical period. Although John Wittmayer owned the property in 1911, it is undetermined if he built this residence in 1935. The residence does not appear to be associated with any significant achievements of any individual persons or the companies it has operated under. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks distinctive characteristics of a particular style. This side-gable-roof house reflects a common twentieth century residential design. It is unremarkable in design and lacks distinction under CRHR Criterion 3. Therefore, the property at 14537 North Alpine Road is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14537 North Alpine Road appears to have remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The house retains much of its original design, however, the landscape design of the property has been modified with the regrading of the area surrounding the house, removal of landscaped areas visible in historical photographs, and the addition of a large concrete pad east of the house.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This property has some replacement metal roofing and generally retains integrity of materials because the house materials appears intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property retains integrity of workmanship due to there being few modifications to the house.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Due to the changes in landscaping surrounding the house and expanse of gravel surrounding the residence, this property has lost its integrity as a rural residential property.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14537 North Alpine Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

Martin, A.A. 1904. *The Delta Lands of California*. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. www.parcelquest.com

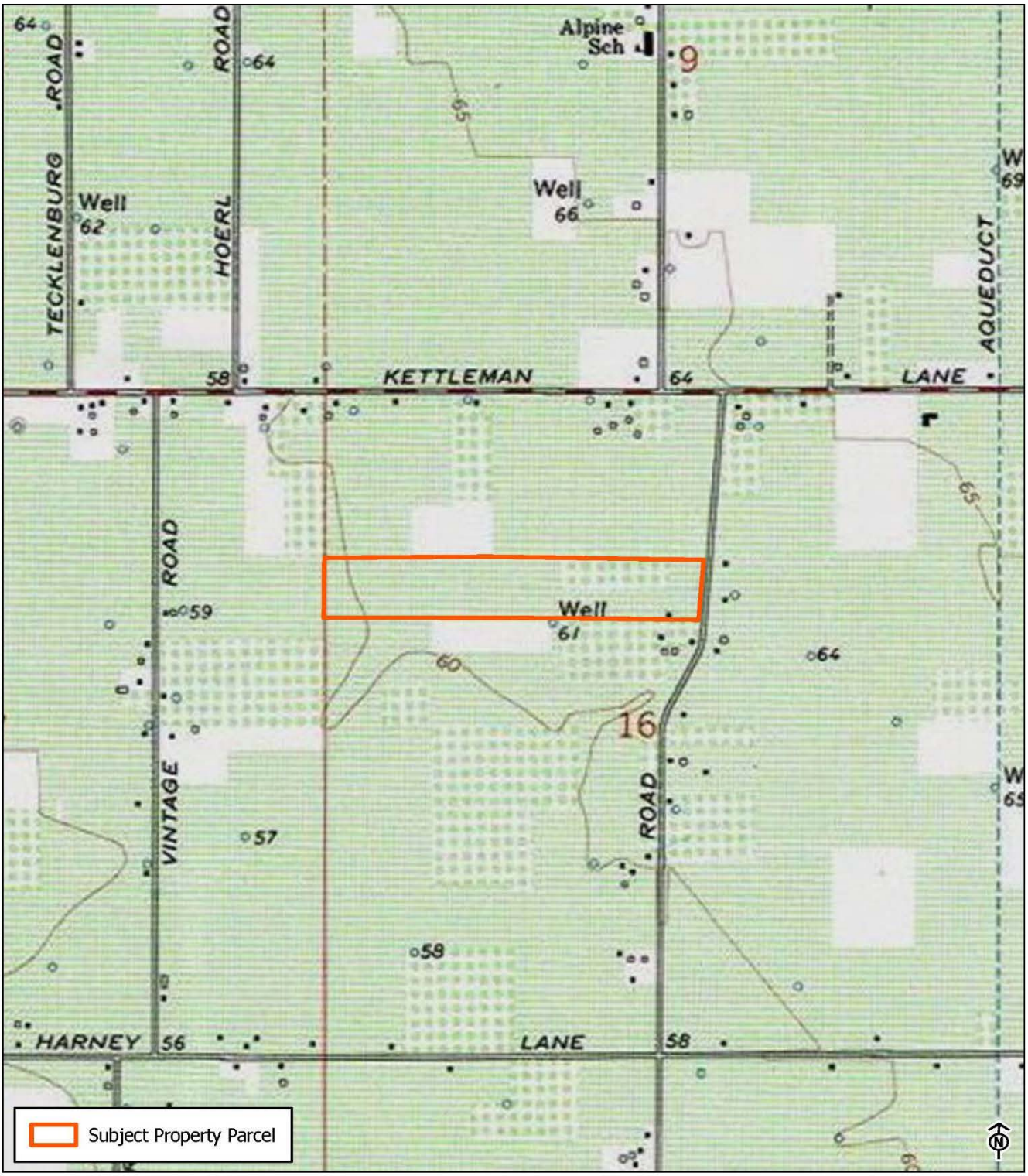
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 14537 North Alpine Road (Resource ID 38)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) 14415 North Alpine Road (Resource ID 39)
P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 16; MD B.M.
c. Address 14415 North Alpine Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 656399 mE/ 4219551 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 061-133-310

*P3a. Description:
The 12.5-acre rural property at 14415 North Alpine Road consists of residential and farm buildings and a vineyard. From Alpine Road, the rectangular parcel extends west with the residential and building complex on the east one-third of the parcel and the remainder of the lot being agricultural. A gravel access road forms the northern border of the parcel and the property is accessed from a driveway off North Alpine Road. The property includes two residences, one garage, a non-historic-era swimming pool, and a double-height metal shop building (non-historic, built circa 1984). The residence at the rear of the property (identified as Residence 1) was partially obscured by vegetation but is a one-story Ranch-style home with wood siding. The residence at the front of the property (identified as Residence 2) is a two-story Ranch-style residence with an attached garage. The garage building is a simple wooden rectangular structure with a gable roof. This house has a flag stone chimney with matching stone planter in center of front circle driveway and stone columns connecting fence north of the house. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) Residence 2, view north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1918 (Parcelquest.com 2022)

*P7. Owner and Address:
Alfonso & Marta Picazo
51 Mariposa
Brisbane, CA 94005

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833
*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14415 North Alpine Road (Resource ID 39) ***NRHP Status Code** 6Z
Page 2 **of** 8

B1. Historic Name: N/A
B2. Common Name: 14415 North Alpine Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1918 – building constructed (Parcelquest.com 2022). This construction date may relate to Residence 1, though neither Residence 1 nor Residence 2 appear to date from the early twentieth century. Both residences have replacement vinyl windows. Associated garages have vinyl garage doors. Siding on the residences appears to be hardiplank replacement material, but this could not be verified from public vantage points. This complex has been modified since the earliest available aerial of the area from 1957. The swimming pool was added to the property between 1967 and 1984. Between 1993 and 1998 the large double height metal shop building was added to the south side of the complex. The original barn/outbuildings north of the metal building were removed in circa 2016. Driveways between houses and outbuildings have been widened considerably in recent years (NETRonline 2022).

***B7. Moved?** ☑**No** ☐ **Yes** ☐ **Unknown** **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14415 North Alpine Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

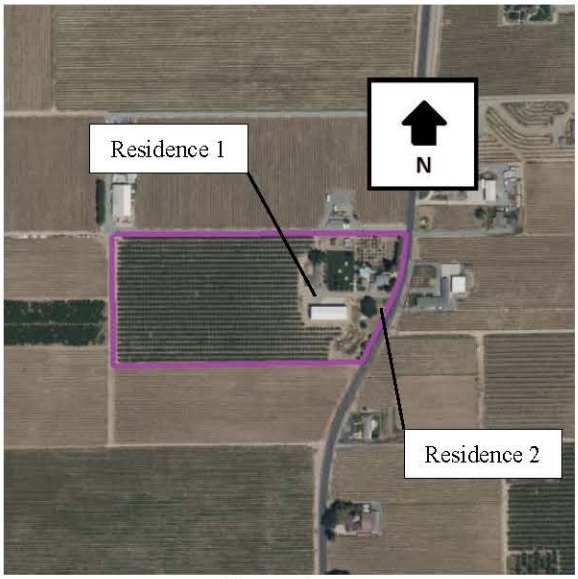
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 14415 North Alpine Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14415 North Alpine Road

The property at 14415 North Alpine Road is currently owned by Alfonso and Martha Picazo. A 1911 county atlas illustrates the road, known today as North Alpine Road, extending north-south through the middle of Section 16, Township 3 N, Range 7 E. This property, located west of the road within a larger 55-acre lot was owned by J.C. Smith (historicmapworks.com 2023). Newspaper research indicated that J.C. Smith was a founder of the local Masonic Lodge in 1859, however, additional information tying J.C. Smith to this property during the early twentieth century was not found in newspapers or ancestry.com (*Lodi News Sentinel* 1943). The current owners of the property are Alfonso and Martha Picazo.

This property is previously unrecorded and unevaluated. Aerial photographs show this property included Residences 1 and 2 in 1957, however, the outbuildings and landscaping has changed since that time. The original outbuildings, including a gable-roof barn south of residences, were removed and replaced with modern outbuildings. A swimming pool was also added west of Residence 2. The complex of buildings on this property have been modified and the two Ranch-style residences have undergone numerous changes, including replacement windows, doors, and siding. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to the numerous changes to the residences and removal of original outbuildings. Research did not reveal that the property played an important role in the development of the area or the agricultural history of San Joaquin County. Therefore, the property at 14415 North Alpine Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research identified J.C. Smith was the owner of this property in 1911, seven years its construction in 1918. It is undetermined if Smith built any of the buildings on the property. The property is not associated with any significant achievements of individuals. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property lacks buildings with a distinctive characteristic of a particular style. The two Ranch-style residences have been updated with modern materials and outbuildings have been replaced. This property lacks distinction under CRHR Criterion 3. Therefore, the property at 14415 North Alpine Road is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14415 North Alpine Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The two houses have replacement windows, siding, and doors and the landscaping and outbuildings have been modified in recent decades. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The windows, doors, and siding of the residences are replacements, resulting in loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property does not reflect retains integrity of workmanship due to modifications of windows and doors.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Due to the changes in landscaping and introduction of large metal outbuilding this property has lost its integrity as a rural residential property.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14415 North Alpine Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

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Section P5. Photographs (continued)



Overview facing northeast showing garage and Residence 2 (Jacobs 20220).



View to west showing modern-era outbuilding and Residence 1 in background (Jacobs 2022).

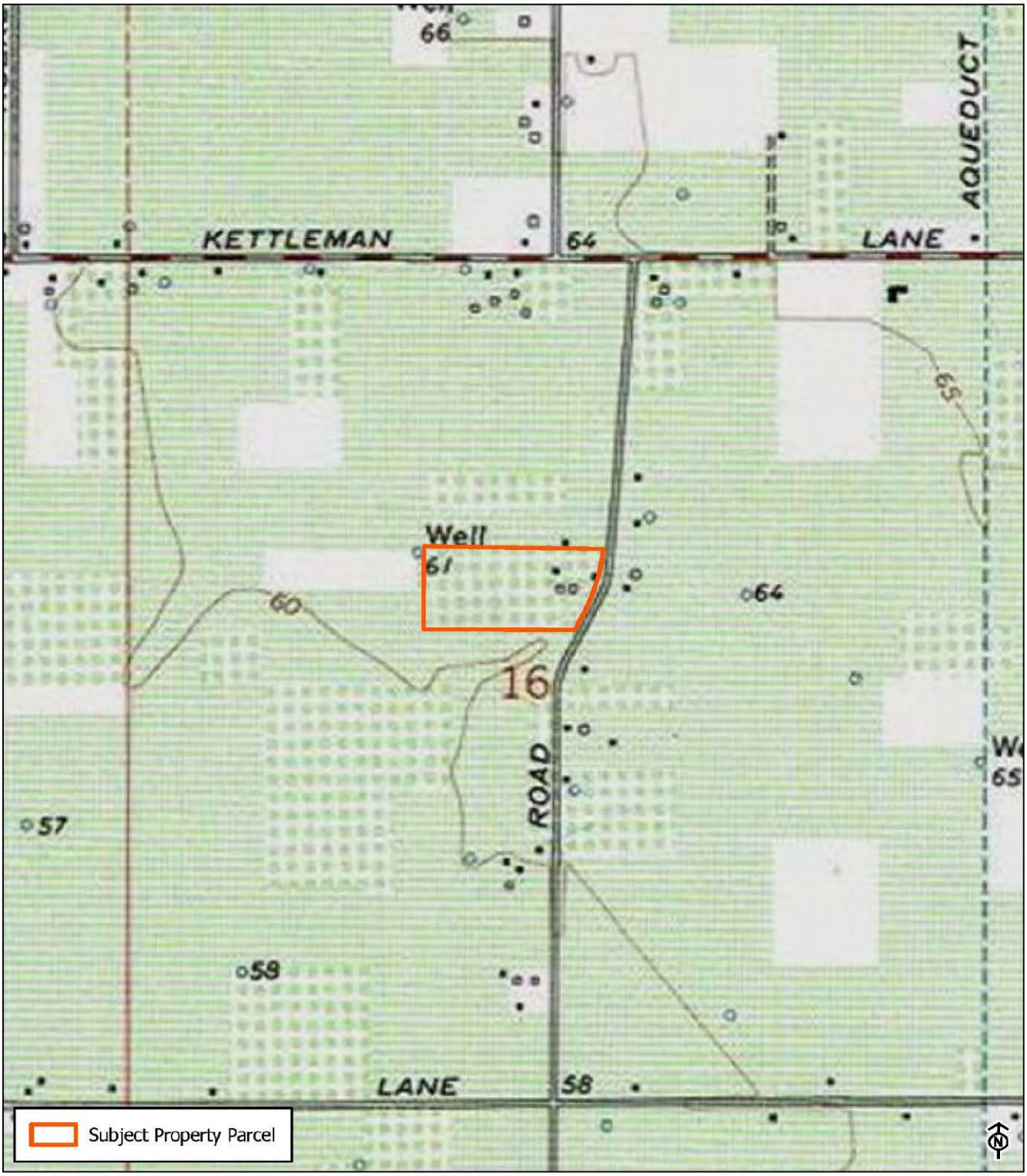
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 14415 North Alpine Road (Resource ID 39)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) 14300 North Alpine Road (Resource ID 40)
P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NE 1/4 of Sec 16; MD B.M.
c. Address 14300 North Alpine Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 656610 mE/ 4219440 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-070-600

*P3a. Description:
The 4.2-acre rural farm property at 14300 North Alpine Road has an irregular shaped tax parcel extending east from North Alpine Road with a residence on the west end of the parcel and the remainder of the lot used as a vineyard. The residence is a one-story Ranch-style building built in 1965. It has a hipped and side gable roof, attached garage connected by a breezeway, replacement doors, windows and garage bay, and stucco and brick siding. Level grass lawn surrounds the house with an asphalt semi-circle driveway in front of the house. A concrete driveway leads to the garage on the south side of the façade and a concrete walkway leads to the front door. A white fence separates the level grass backyard from the agricultural field to the east. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1965 (Parcelquest.com 2022)

*P7. Owner and Address:
Jeremy William Jenner
P.O. Box 180
Victor, CA 95253

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14300 North Alpine Road (Resource ID 40) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 14300 North Alpine Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1965 – building constructed (Parcelquest.com 2022). This Ranch-style house retains its original form but has replacement roof, windows, vinyl garage door, and front door. The earliest available area of the area dates from 1957 and shows the property consisted of an agricultural field at that time. The house and semi-circular driveway are visible in the next aerial from 1967 (NETROnline 2022). Aerials show the setting as intact with the neighboring parcels all used as agricultural land.

***B7. Moved?** ☑No ☐ Yes ☐ Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14300 North Alpine Road is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14300 North Alpine Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14300 North Alpine Road

The property at 14300 North Alpine Road is currently owned by Jeffrey Jenner. A 1911 county atlas illustrates the road, known today as North Alpine Road, extending north-south through the middle of Section 16, Township 3 N, Range 7 E. This property, located east of the road within a larger 25-acre lot, was owned by C. Jenner (historicmapworks.com 2023). Newspaper and ancestry.com research did not locate information about C. Jenner or Jeffery Jenner. Aerial photographs show this property as solely agricultural in 1957. By the next aerial from 1967, the house is shown on the property.

This property is previously unrecorded and unevaluated. This one-story low-slung Ranch-style house retains its original form and landscape features including a front and back lawn and semi-circular driveway but has replacement vinyl windows, front door and garage doors, and a replacement roof. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to it being designed without a clear association to farming aside from its location. The property lacks associated outbuildings and support structures typically included with agricultural properties. As an example of the trend of Ranch Style housing from the mid-twentieth century, it lacks significance as it is not part of a housing development that could express the role of Ranch Style architecture in the trend of community planning and development. The property at 14300 North Alpine Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property has long term associations with the Jenner family, which has owned the property since at least 1911. Research did not determine the property to be associated with any significant achievements of any individual persons, including members of the Jenner family. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Ranch-style house is a common expression of its style that has been modified with replacement windows, doors, and roofing. This property lacks distinction under CRHR Criterion 3. Therefore, it is not eligible for the CRHR under Criterion 3 and is not considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14300 North Alpine Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The house has replacement windows, doors, and roofing. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Historical photographs from 1967, two years after the property was built, show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The windows, doors, and roofing of the residence are replacements, resulting in loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property does not reflect retains integrity of workmanship due to replacement of windows, doors, and roofing.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form, circulation systems, landscaping, and setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14300 North Alpine Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

Section P5. Photographs (continued)



View facing southeast showing the south half of façade and garage (Jacobs 2022)

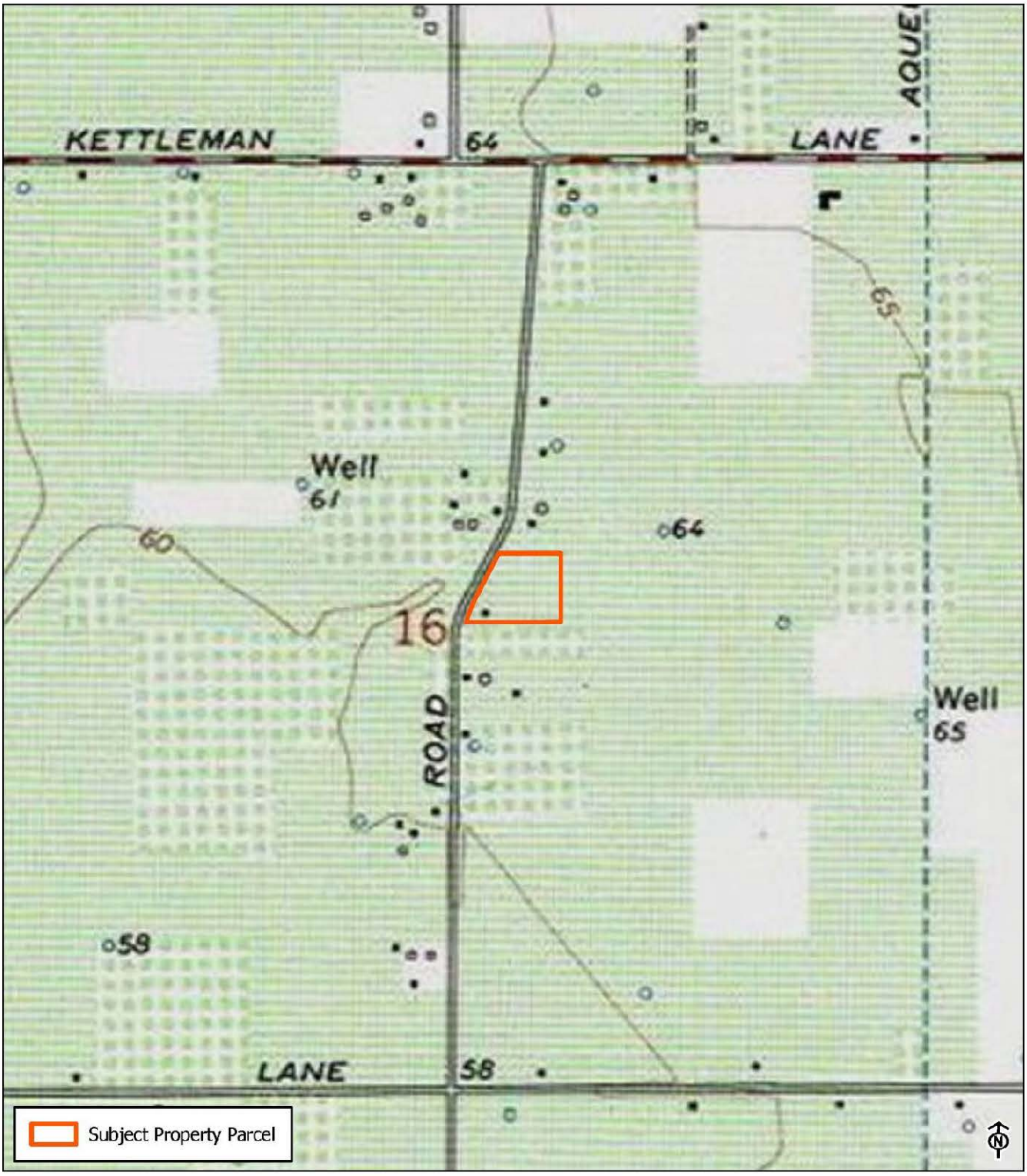
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14300 North Alpine Road (Resource ID 40)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) 14170 North Alpine Road (Resource ID 41)
P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 16; MD B.M.
c. Address 14170 North Alpine Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 656562 mE/ 4219326 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-070-500

*P3a. Description:
The 3.1-acre residential farm property at 14170 North Alpine Road consists of generally a square lot extending east from North Alpine Road. A residence is on the west end of the parcel and the remainder of the lot is agricultural land. The cultivated agricultural field east of the house extends beyond the tax parcel of this property. The residence is a heavily modified Minimal Traditional-style building with a carport and two rear outbuildings not visible from public vantage points. Views of the property are obscured by a fence and mature Eucalyptus trees. The residence has an irregular footprint, one-story massing, a hipped roof of low pitch, wood siding, and replacement windows. There appears to have been an addition built 1984 at the rear of the residence based on aerials (NETROnline 2022). The residence and its outbuildings are set in the southwest corner of the tax parcel with large portions of the level residential area paved with concrete. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View east, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1906 (Parcelquest.com 2022)

*P7. Owner and Address:
Greg & Karen Foster
14170 North Alpine Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14170 North Alpine Road (Resource ID 41) ***NRHP Status Code** 6Z
Page 2 **of** 8

B1. Historic Name: N/A
B2. Common Name: 14170 North Alpine Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional

***B6. Construction History:** 1906 – building constructed (Parcelquest.com 2022). This property does not reflect a 1906-era residence, but rather a Minimal Traditional-style (common between 1935-1950) one-story house modified through the construction of an addition to the east end of the rear, south elevation circa 1984. The earliest available aerial of the area from 1957 shows the property consisted of a house with a rectangular footprint. The current fence and outbuildings are not show in the aerial. In the 1957 aerial, a dirt road directly south of the house led east to a non-extant residence to the southeast. Updates to the house at 14170 North Alpine Road include replacement metal windows, added wood and brick privacy fence, concrete pavement, and an addition to the southeast corner of the house (NETROnline 2022). Aerial photographs indicate the setting of the neighboring parcels remain agricultural though the house once located southeast of this property has been removed and the location is used as farmland today.

***B7. Moved?** ☑No ☐ Yes ☐ Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14170 N Alpine Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

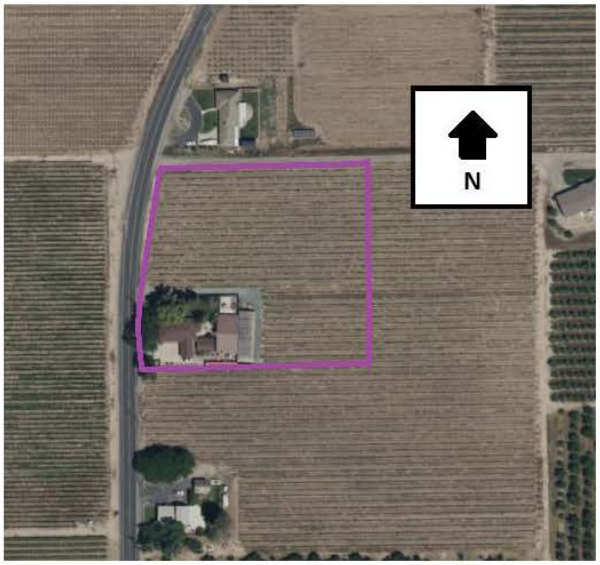
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14170 North Alpine Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14170 North Alpine Road

County assessor records indicate this house was built in 1906. A 1911 county atlas illustrates the road, known today as North Alpine Road, extended north-south through the middle of Section 16, Township 3 N, Range 7 E. This property is located east of the road, historically located within a 160-acre lot owned by C. Schnaidt (historicmapworks.com 2023). Newspaper research identified Chris Schnaidt as a 42-year-old Lodi "real estate man" who died of drowning in 1916, leaving four orphaned children (*Stockton Evening and Sunday Record* 1916). Historical photographs show this property with a smaller footprint and a no-longer-extant residence to the southeast, where farmland is today. The property is currently owned by Gregg and Karen Foster. Research did not find any relevant information about the Fosters.

This property is previously unrecorded and unevaluated. Although the tax assessor lists the date of construction for this house as 1906, it reflects the Minimal Traditional Style. This style comprises small, economically built houses that became common during the Great Depression of the 1930s and surged in popularity during the 1940s. The property has undergone modifications, including replacement metal windows, added wood and brick privacy fence, concrete pavement, and an addition to the southeast corner of the house circa 1984. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming, nor does it have significance in the area of community planning and development. Therefore, the property at 14170 North Alpine Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research has determined the property was owned by Chris Schnaidt in 1911. He was a real estate person and there is no record of him living on the property or having importance within that industry. Research did not uncover that the property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Minimal Traditional-style house is a common expression of that style that has been modified with replacement windows, a circa 1984 addition to its south elevation, addition of privacy fencing, and concrete pavement across its level lot. This property lacks distinction under CRHR Criterion 3 and lacks integrity. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14170 North Alpine Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The property has replacement windows, added privacy fencing, a circa 1984 addition, and concrete pavement across much of the level lot. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Historical photographs from 1957 show the neighboring agricultural properties in a very similar arrangement to what they are today. Overall, the setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property has replacement windows, added privacy fencing, a circa 1984 addition, and concrete pavement across much of the level lot. These changes have resulted in a loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. As a result of the aforementioned alterations, this property does not retain integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The privacy fencing and concrete paving have diminished this property's ability to convey associations as an early twentieth-century rural residential property. Therefore, it has lost its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14170 North Alpine Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



Overview of property facing east from North Alpine Road (Jacobs 2022).



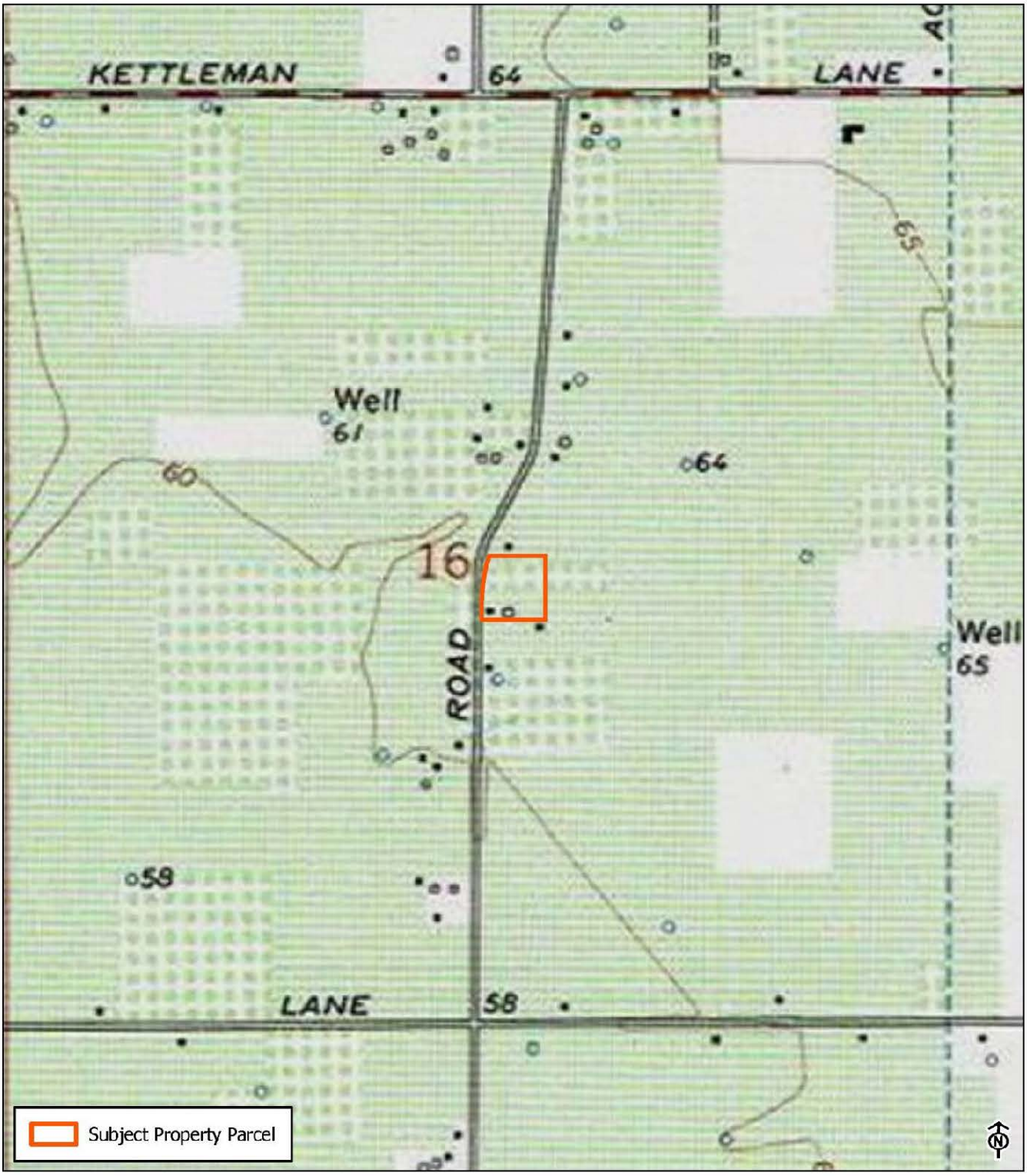
Overview facing northwest showing vineyard south of house in foreground (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 14170 North Alpine Road (Resource ID 41)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) 14090 North Alpine Road (Resource ID 42)
P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 16; MD B.M.
c. Address 14090 North Alpine Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 656627 mE/ 4219240 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-070-620

*P3a. Description:
The 11.8-acre rural farm property at 14090 North Alpine Road is a residential and farm property. From North Alpine Road, the L-shape tax parcel extends east with a residence on the west end of the parcel and the remainder of the lot used as agricultural land. The residence is a one-story Craftsman-style building with a garage built in 1920. The residence is one-story with a front-gable roof, partial-width front porch, clapboard exterior, large replacement windows, and a brick foundation wall veneer that appears to be a non-original. The garage is a simple rectangular wooden building with a replacement door and window and one garage bay. A modern white fence separates the west side of the property from North Alpine Road. The residence sits on a level lot with mature The parcel features mature trees and a small, raised brick planter bed along the foundation of the west-facing façade of the residence. The broad driveway is asphalt while the walkway north of the house is concrete. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022
*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both 1920 (Parcelquest.com 2022)

*P7. Owner and Address:
Joseph P. & Jeannette Petersen
14000 North Alpine Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14090 North Alpine Road (Resource ID 42) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 14090 North Alpine Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** 1920 – building constructed (Parcelquest.com 2022). This Craftsman-style house retains its original form but has replacement windows and doors. The chimney and foundation footing wall also appear to be non-original. The earliest available aerial of the area from 1957 shows the house with an orchard behind it and surrounding properties that appear to be growing grapes. The orchard was removed by 1984 (NETROnline 2022). Overall, the aerials show the setting as intact with the neighboring parcels all used as agricultural land.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14170 North Alpine Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

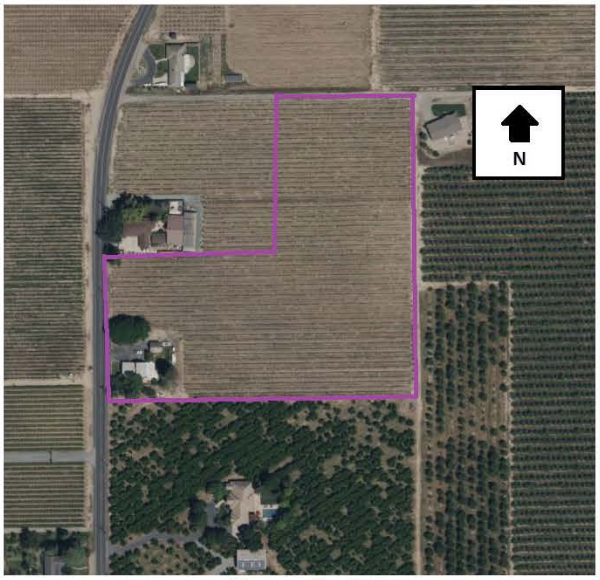
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 14090 North Alpine Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14090 North Alpine Road

A 1911 county atlas illustrates the road, known today as North Alpine Road, extending north-south through the middle of Section 16, Township 3 N, Range 7 E. This property is located east of the road, historically located within a 160-acre lot owned by C. Schnaidt (historicmapworks.com 2023). Newspaper research identified Chris Schnaidt as a 42-year-old Lodi "real estate man" who died of drowning in 1916, leaving four orphaned children (*Stockton Evening and Sunday Record* 1916). The assessor lists the date of construction for this property as 1920, after Schnaidt died. An aerial photograph from 1957 shows this property with a smaller footprint and a no longer extant residence to the southeast, where there is agricultural land today. The property at 14090 North Alpine Road is currently owned by Joseph and Jeannette Petersen. Research did not find information about the Petersens relevant to this property and its use.

This property is previously unrecorded and unevaluated. The residence is built in the Craftsman Style, which was widely popular in the United States and California between 1905 and 1930. Examples of the style typically are one to one-and-a-half stories tall and characterized by a low-pitched, gable roof (sometimes hipped) with oversized eaves, exposed roof rafters, full or partial-width porches supported by tapered square columns or battered columns, and windows placed in groups or bands. The walls are usually clad with clapboard, shingle, stone, brick, and clinker brick. Early examples exhibit characteristics of the transitional Arts and Crafts style (McAlester and McAlester 1984). This property has undergone modifications including replacement windows, doors, foundation footing wall, chimney, and garage fenestration. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to it being designed without a clear association to farming aside from its location. The property does not have associations with the development of the area. The property at 14090 North Alpine Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not determine who the owner of the property was when the house was constructed in 1920, nor did it uncover any other information on past owners after the house was built. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Craftsman-style house is a common expression of the form that has been modified with replacement windows and doors and a non-original chimney and fountain footing wall. This property lacks distinction under CRHR Criterion 3. Therefore, it is not eligible for the CRHR under Criterion 3 and is not considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14300 North Alpine Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The house has replacement windows and door and the brick foundation wall and chimney date from after the construction of the house in 1920. Additionally, the garage has been modified with new window and doors. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes to the windows, doors, chimney, and foundation wall have diminished integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of this property has been diminished by the noted changes to the house and garage.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form, circulation systems, landscaping, and setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14090 North Alpine Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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Parcelquest.com. 2022. Parcels. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View of west facing façade with garage in background (Jacobs 2022).

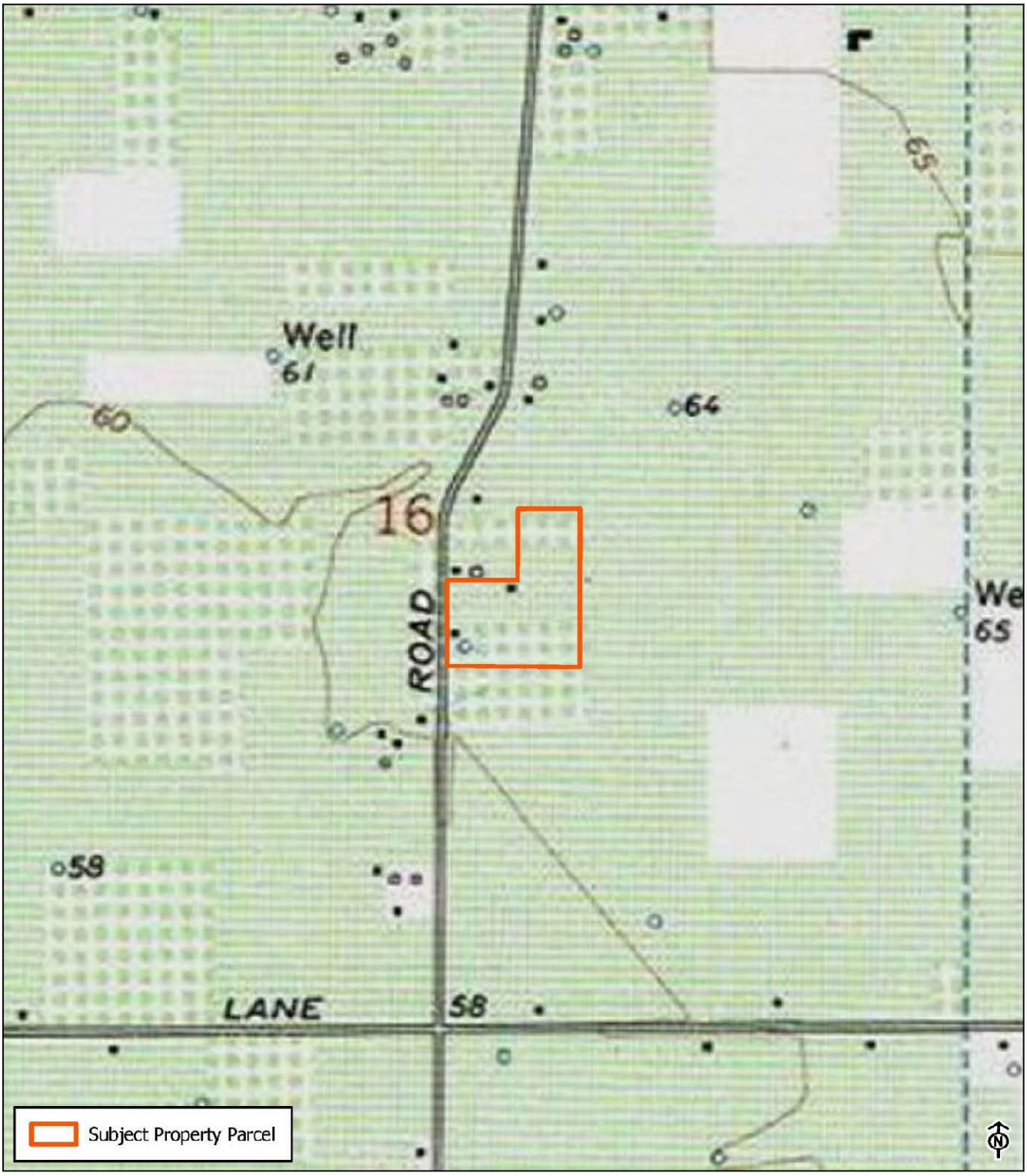
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14090 North Alpine Road (Resource ID 42)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California ⛍ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

 *Resource Name or #: (Assigned by recorder) 14413 North Locust Tree Road (Resource ID 43)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; NW 1/4 of Sec 15; MD B.M.
c. Address 14413 North Locust Tree Road City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 658059 mE/ 4219596 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): 063-150-510
*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This 1.5-acre property is a residential property that overlaps adjacent agricultural fields to the west and south. The property consists of a Ranch-style residence with a non-historic shop building built circa 1984 (NETROnline 2022). The brick residence is one story and includes a small inset entrance in the middle of the east facade. Distinctive features of the building include its low-pitch hipped roof, attached carport supported by brick columns and a breezeblock wall on its east end. In front (east) of the house is a level yard and broad concrete driveway that transitions into asphalt and includes a small circular planter with succulents. The concrete curb between the driveway and yard is curved. South of the house is a dirt road accessing the adjacent agricultural field and outbuildings. The rectangular property is located west of North Locust Tree Road and is surrounded by agricultural land. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
1959 (Parcelquest.com 2022)

*P7. Owner and Address:
North American Specialty Products
2801 Post Oak Blvd
Houston, TX 77056

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14413 North Locust Tree Road (Resource ID 43) ***NRHP Status Code** 6Z
Page 2 **of** 8

B1. Historic Name: N/A
B2. Common Name: 14413 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1959 – building constructed (Parcelquest.com 2022). This Ranch-style house retains its original form but has replacement windows and thick architectural shingles added in the last circa 30 years. An outbuilding was constructed southwest of the house circa 1984. The earliest available aerial of the area from 1957 shows the property including a different house and an orchard. The current Ranch-style residence is present in the next aerial from 1967, and the orchard is non-extant in that aerial. The original driveway was concrete and was modified sometime between 1967 and 1984 to include asphalt on its southern portion (NETROnline 2022). Overall, the aerials show the setting as intact with the neighboring parcels used as agricultural land with some residences.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 14413 North Locust Tree Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has diminished integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14413 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14413 North Locust Tree Road

A 1911 county atlas illustrates this property was located within an 80-acre lot owned by "A.B. Burgestahler" (historicmapworks.com 2023). A 1920 census lists Russian immigrant Albert Burgstahler as a general farmer 53 years old living in Elkhorn, California, in San Joaquin County. He lived with his wife, Bertha, his father, and four children. The current owners of this property are Ronald and Katherine Mettler. Ronald is listed as an employee of United California Bank in a 1980 city directory (Ancestry.com 2022). Research did not determine who built this house.

This property is previously unrecorded and unevaluated. The house reflects the Ranch Style, which was commonly designed between 1930-1975 (McAlester and McAlester 2022). A Los Angeles context statement for Ranch Style houses describes these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers (City of Los Angeles 2015)." According to *A Field Guide to American Houses*, the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester and McAlester 2022). This house retains its original form and landscape features including a front and back lawn and curved driveway with inset planter. However, it has replacement vinyl windows, modern thick asphalt shingles, and an outbuilding added southwest of the house in circa 1984. The original concrete driveway has been modified with asphalt on its southern portion. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to it being designed without a clear association to farming aside from its location and one modern outbuilding. As an example of the trend of Ranch-style housing during the mid-twentieth century, it lacks significance as it is not part of a housing development that could express the role of Ranch-style architecture in the post-World War II trend of community planning and development. Therefore, property at 14413 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research did not determine past owners of this property after the house was built. The property is not associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Ranch-style house is a common expression of the style and has been modified with replacement windows and thick asphalt shingles, a circa 1984 outbuilding, and asphalt pavement blended with original concrete on driveway. This property lacks distinction under CRHR Criterion 3 and integrity is diminished. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14413 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. As noted, the house has replacement windows and roofing materials. The property also displays added asphalt at the driveway and a modern-era outbuilding. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes to the windows, roofing, and driveway pavement have diminished the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of this property has been diminished by the noted changes.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form, circulation systems, landscaping, and setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14413 North Locust Road does not meet any of the CRHR criteria and has diminished integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Section P5. Photographs (continued)



View facing west showing front yard and south half of facade (Jacobs 2022).



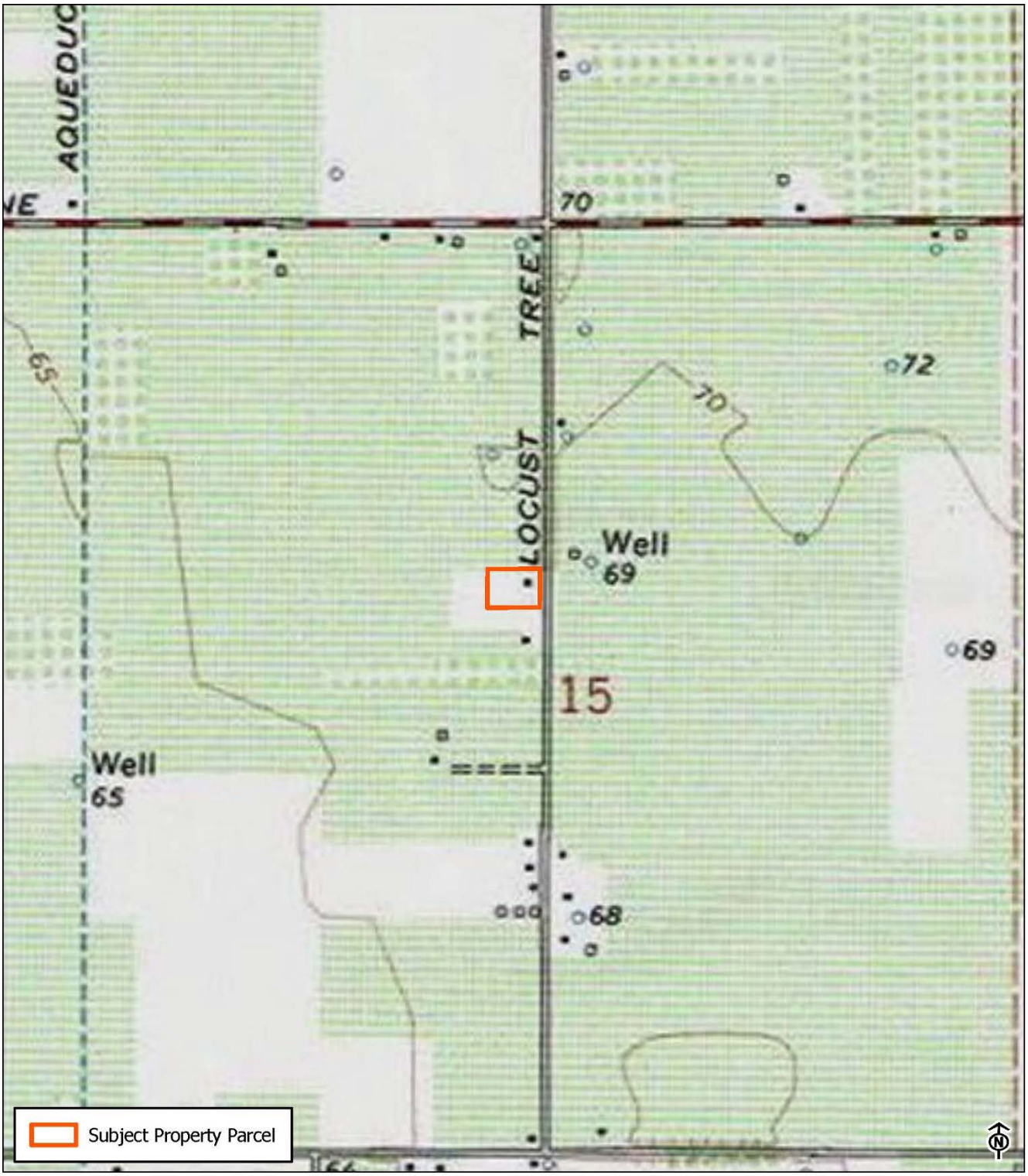
View facing northwest showing façade and carport (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** (Assigned by recorder) 14413 North Locust Tree Road (Resource ID 43)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 6 *Resource Name or #: (Assigned by recorder) South Pipeline (Resource ID 44)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Lodi North Date 1968 T 3N ; R 7E ; SW 1/4 of Sec 15 ; MD B.M.
c. Address N/A Zip
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 658059 mE/ 4219596 mN, Zone 10S, 658059 mE/ 4219596 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: N/A

*P3a. Description:
This forms records and evaluates a 0.62-mile-long segment of the South Pipeline of the North San Joaquin Water Conservation District (NSJWCD) located within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. The segment forms part of the larger South Pipeline that delivers water from Mokelumne River to the north into Pixley Slough and Bear Creek to the south. The pipeline segment in the API is buried and therefore is not visible. It intersects the API approximately 0.5 mile east of North Alpine Road in an agricultural setting east of Lodi (NSJWCD 2020).

*P3b. Resource Attributes: (List attributes and codes) HP 20. Canal/Aqueduct
*P4. Resources Present: ☐Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Sometime between 1961 and 1968 (USGS 2022)

*P7. Owner and Address:
North San Joaquin Water Conservation District
498 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐ NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record
☐ Artifact Record ☐ Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) South Pipeline (Resource ID 44) ***NRHP Status Code** 6Z
Page 2 **of** 6

B1. Historic Name: N/A
B2. Common Name: South Pipeline
B3. Original Use: Water conveyance
B4. Present Use: Water conveyance
***B5. Architectural Style:** N/A

***B6. Construction History:** This water pipeline segment is buried and therefore not visible. The pipeline first appears on a U.S. Geological Survey (USGS) quadrangle map between 1961 and 1968, where it is labeled as an "aqueduct" (USGS 2022). Therefore, the construction date is sometime between 1961 and 1968.

***B7. Moved?** ☑No ☐ Yes ☐ Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Water Conveyance **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Pipeline
Applicable Criteria N/A
The NSJWDC South Pipeline is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The NSJWCD South Pipeline is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Additional railroads and road development occurred over time and with the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

The crop diversification that occurred during the twentieth century required the construction of more irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the APl environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; USGS 2022). This includes the Bear and Paddy creeks, which intersect the center of the APl. A 1908 topographic quadrangle, the earliest available for the area, shows their meandering courses extending through the APl immediately east of present-day SR 88. This also is reflected in subsequent quadrangles and aerials through 1961. By 1967, however, an aerial shows that all three creeks had been channelized to follow their current, straighter paths. According to a 1977 report by the U.S. Army Corps of Engineers, channelization of Bear Creek in San Joaquin County was completed between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway. The project was intended to protect agricultural land, suburban areas, and transportation corridors from the devastating effects of floods (U.S. Army Corps of Engineers 1977). Paddy Creek likely was channelized during the same period for flood protection purposes.

The entire APl falls within the NSJWCD, which was formed in 1948 to provide groundwater management (NSJWCD 2022). It represents one of the water storage and conservation districts created in California after the late 1920s in response to the "increased demand for storage and coordination of interested on larger streams" (JRP Historical Consulting and Caltrans 2000:15). The NSJWCD currently encompasses 150,000 acres east of Lodi on both sides of the Mokelumne River and includes features such as pump stations, recharge sites, and reservoirs for water storage.

South Pipeline

A 2020 map of the NSJWCD identifies that the South Pipeline, which delivers water from Mokelumne River to the north into Pixley Slough and Bear Creek to the south, intersects the APl approximately 0.5 mile east of North Alpine Road (NSJWCD 2020). The pipeline handles ground water and is used during irrigation season to convey water to farms (Greater San Joaquin County Regional Water Coordinating Committee 2020). The pipeline's north-south alignment through the APl first appears between 1961

and 1968 topographic quadrangles, where it is labeled an "aqueduct" (NETROnline 2022; USGS 2022). Aerial photographs from 1967 and 1984 did not identify any signs of the pipeline, which is buried.

The pipeline is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The South Pipeline, which handles groundwater and provides irrigation, was developed in the mid-twentieth century after agriculture in the area it services had been well established. It is not reflective of a significant event or trend making it not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The South Pipeline was developed by the NSJWCD, which is managed by an elected board of directors rather than an individual. Research did not determine the property to be associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this pipeline lacks distinction as it is not a particularly early or unique structure having been built during the mid-twentieth century when rapid growth brought expansion of water systems throughout the state. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the South Pipeline appears to have remained the same throughout its history based on cartographic review. The integrity of the property's location is intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The property is buried, and therefore design cannot be assessed. It is assumed to retain this aspect of integrity.

Setting is the physical environment of a historic property. Aerial aerial photographs from 1967 and later show the rural agricultural area this pipeline passes through much the same as it is today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property is buried, and therefore materials cannot be assessed. It is assumed to retain this aspect of integrity.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property is buried, and therefore workmanship cannot be assessed. It is assumed to retain this aspect of integrity.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property is buried, and therefore feeling cannot be assessed. It is assumed to retain this aspect of integrity.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the South Pipeline does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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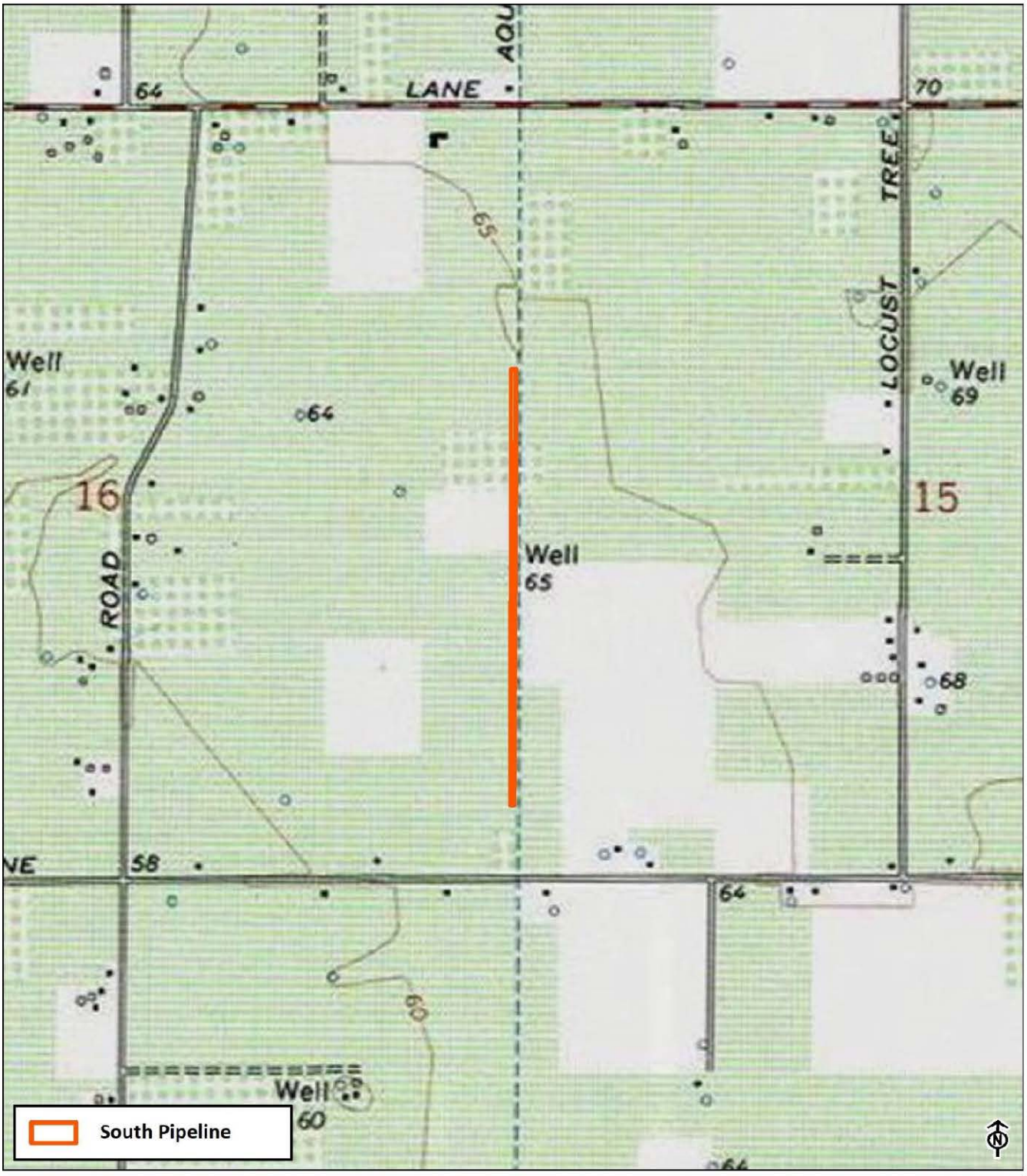
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) South Pipeline (Resource ID 44)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 14117 North Locust Tree Road (Resource ID 45)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 15; MD B.M.
c. Address 14117 North Locust Tree Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 657711 mE/ 4219342 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-150-350
*P3a. Description:
This property consists of a rural residence, monitor-roof barn, garage, and modern-era pole building surrounded by agricultural fields. The residence is single-story with an irregular footprint, hipped roof, wood siding, and brick detail at the foundation. The barn has a front-gable roof and is clad in wood with a large metal sliding replacement door and a smaller wooden sliding door. The garage is rectangular with a side-gable roof and two bays with replacement doors. The residences, barn, and garage are in the middle of the south side of a 30-acre rectangular parcel that includes a long driveway leading from North Locust Tree Road west to the buildings. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1918 (Parcelquest.com 2022)

*P7. Owner and Address:
Julia B Heckenlaible
14117 North Locust Tree Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14117 North Locust Tree Road (Resource ID 45) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 14117 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** 1918 – building constructed (Parcelquest.com 2022). The house on this property retains its original form but has replacement siding, windows, doors, brick veneer around the foundation, modern-era roof, and metal railings. The two-door garage south of the house has replacement doors, siding, and roofing. These material changes to the house and garage likely occurred in the last 30 years. Between 1967 and 1984, two small gable-roof buildings (potential farm laborer's quarters) northwest of the house were removed. Between 1993 and 1998, a large metal pole building was added northwest of the house and the driveway was enlarged and paved (NETROnline 2022). The monitor roof barn has a replacement roof and central sliding door on its south façade. Overall, the aerial shows the setting as intact with the neighboring parcels used as agricultural land with some residences.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder:** N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A

The property at 14117 North Locust Tree Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has diminished integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

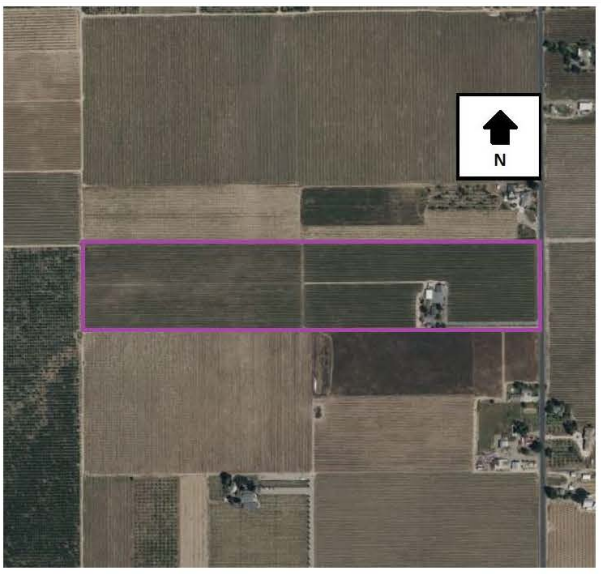
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 14117 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14417 North Locust Tree Road

A 1911 county atlas illustrates this property was located within an 80-acre lot owned by what appears to be "F.J. Mettler" (historicmapworks.com 2023). Fredrich J. Mettler, the son of Johann Mettler and Christina Schnabel, was born in 1864 in Kassel, Glueckstal, Odessa, South Russia and died in Lodi, California, in 1943. At the age of 10 he immigrated to the United States with his parents and siblings. He married Katharina Schnabel in 1884 in Menno, Dakota Territory. In 1920, Fredrich Katharina Mettler and had 13 children. The 1920 census indicates Fredrich worked as a farmer and owned his property in San Joaquin County (Find A Grave 2023). It is unconfirmed if the Mettler's or members of their family built this house, which was built in 1918 according to tax assessor records.

This property is previously unrecorded and unevaluated. A 1957 USGS map shows the long driveway to this farm complex and two buildings (USGS 2022). An aerial photograph also from 1957 shows the complex of historic-era buildings (house, garage, and barn) plus two small gable-roof buildings northwest of the house. These small buildings were removed by 1993. The addition of a large metal pole building occurred between 1993 and 1998. The original narrow gravel driveway has been paved and widened (NETROnline.com 2022). The house retains its original form but has undergone numerous modifications to materials. The monitor roof barn has retained its original siding and form. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to the numerous modifications that have occurred to the property including removal of original buildings. The property at 14117 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Historical research did not confirm who lived at the resource. The property is not associated with any significant achievements of any individual persons based on research. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property includes a house and a garage with extensive modifications and a barn with modified doors and roof. The house is an early-twentieth century farmhouse that lacks architectural distinction. Further, the complex has undergone numerous changes, including the removal of buildings and paving of the driveway. This property lacks distinction under CRHR Criterion 3. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14117 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. As noted, the house has replacement windows, roofing, siding, doors, and brick veneer around foundation. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted alterations have diminished this property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of this property has been diminished by the noted changes.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has undergone the removal of buildings, addition of new buildings, and has a modified circulation system and landscaping, resulting in a loss of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 14117 North Locust Road does not meet any of the CRHR criteria and has lost integrity. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com.

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Section P5. Photographs (continued)



View of barn, facing north (Jacobs 2022).



View of garage, facing north (Jacobs 2022).

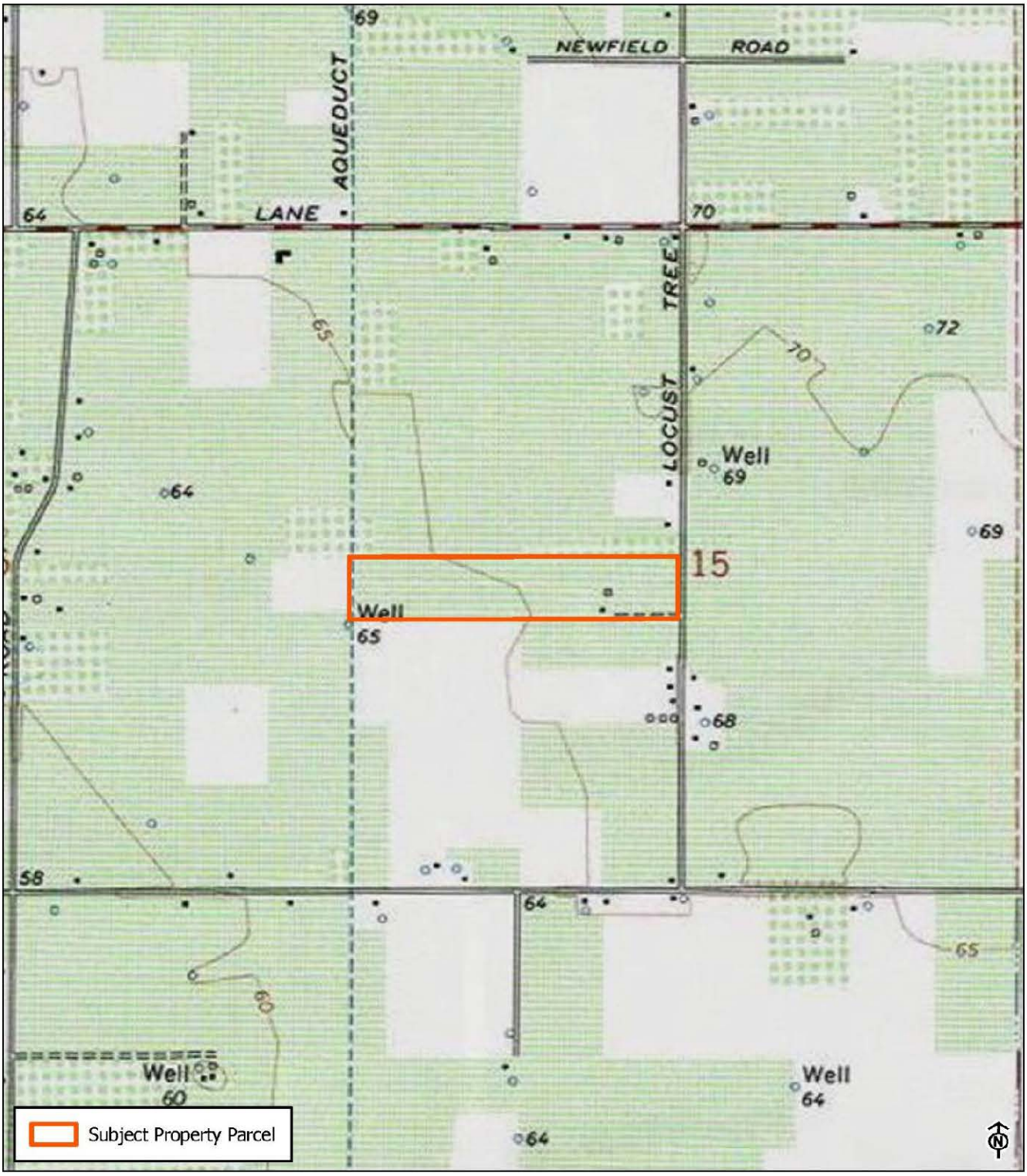
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14117 North Locust Tree Road (Resource ID 45)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 13987 North Locust Tree Road (Resource ID 46)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 15; MD B.M.
c. Address 13987 North Locust Tree Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 658088 mE/ 4219162 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-150-330
*P3a. Description:
The subject property is a heavily modified bungalow and associated modern-era garage with no discernable architectural style. The property has a U-shaped plan and a clipped front-gable roof with a shed roof projection over a partial-width entry porch. The south elevation of the house has two protruding gable roof sections with a flat roof section separating them. The house has replacement stucco siding, windows, doors, and columns at the porch. The two-car garage has a front-facing gable roof and is clad in stucco. A level grass lawn with mature trees is located on the east, north and west sides of the house. The driveway from Locust Tree Road extends west along the south edge of the 0.5-acre property terminating at the garage. A modern-era chain link fence runs along the perimeter of the property. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1938 (Parcelquest.com 2022)

*P7. Owner and Address:
Troy K. & Jennifer Bettenhausen
13987 North Locust Tree Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13987 North Locust Tree Road (Resource ID 46) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 13987 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed in 1938 (Parcelquest.com 2022). A 1957 aerial photograph shows a smaller garage with a square footprint located in the approximate location of the existing garage. Between 2002 and 2005, the existing larger rectangular-shaped garage was built. The stucco siding was added since 2012, along with doors, roofing, and columns at the porch (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Residential development **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 13987 North Locust Tree Road has lost integrity and is not eligible for listing in the California Register of Historical Resources (CRHR). Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 13987 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13987 North Locust Tree Road

A 1911 county atlas illustrates this property was located within an 80-acre lot owned by what appears to be "F.J. Mettler" (historic maps.com 2023). Fredrich J. Mettler, the son of Johann Mettler and Christina Schnabel, was born in 1864 in Kassel, Glueckstal, Odessa, South Russia and died in Lodi California in 1943. At the age of 10 he immigrated to the United States with his parents and siblings. He married Katharina Schnabel in 1884 in Menno, Dakota Territory. In 1920, Fredrich Katharina Mettler and had 13 children. The 1920 census indicates Fredrich worked as a farmer and owned his property in San Joaquin County (Find A Grave 2023). It unconfirmed if the Mettler's or members of their family built this house, which according to tax assessor records was built in 1938.

This property is previously unrecorded and unevaluated. A 1957 USGS map shows the house with more trees of varied sizes around it. A small garage was located southwest of the house (where existing garage is today) with small buildings west of it that have been removed. Sometime between 2002 and 2005 the existing large garage was added and the house was renovated since 2012 (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a particularly good example of farming due to the numerous modifications that have occurred to the property, including removal of original buildings. The property at 13987 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Though this property is associated with Friedrich J. Metter in 1911, it is undetermined if he built the house constructed in 1938. Furthermore, no information was found about his historical significance. The property is not associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not architecturally significant. The property includes a farmhouse and a modern-era garage. The house is an early twentieth-century farmhouse that lacks architectural distinction and has undergone extensive modifications, including stucco siding, replacement windows, doors, and columns at the porch. The property has undergone other changes, including the removal of buildings and material changes to the house. This property lacks distinction under CRHR Criterion 3. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 13987 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. As noted, the house has replacement windows, roofing, siding, doors, and columns at the porch. Furthermore, the garage was replaced in the early 2000s. These changes have resulted in the property losing its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes have diminished this property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes have diminished this property's integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has undergone the removal of buildings, addition of new buildings, and extensive material changes, resulting in a loss of feeling.

Association is the direct link between an important historic event or person and a historic property. This property does not have associations with a historic event and therefore does not retain integrity of association.

In conclusion, the property at 13987 N Locust Road does not meet any of the CRHR criteria and has lost integrity, therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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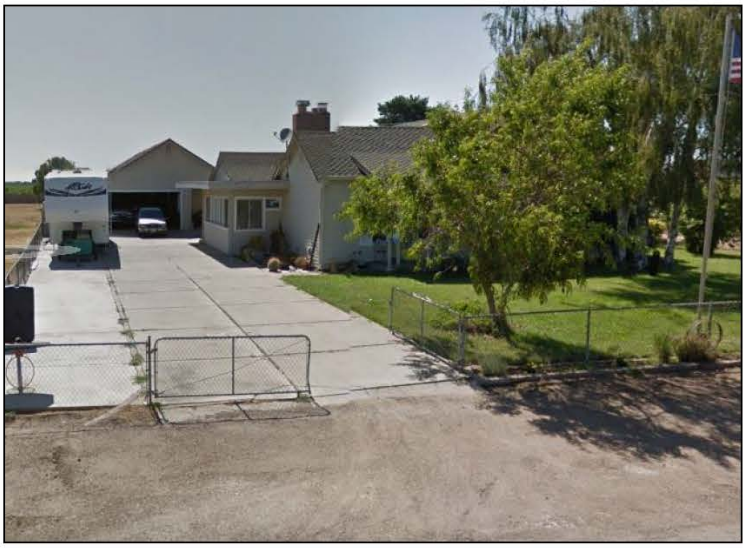
Section P5. Photographs (continued)



View of house, facing northwest (Jacobs 2022).



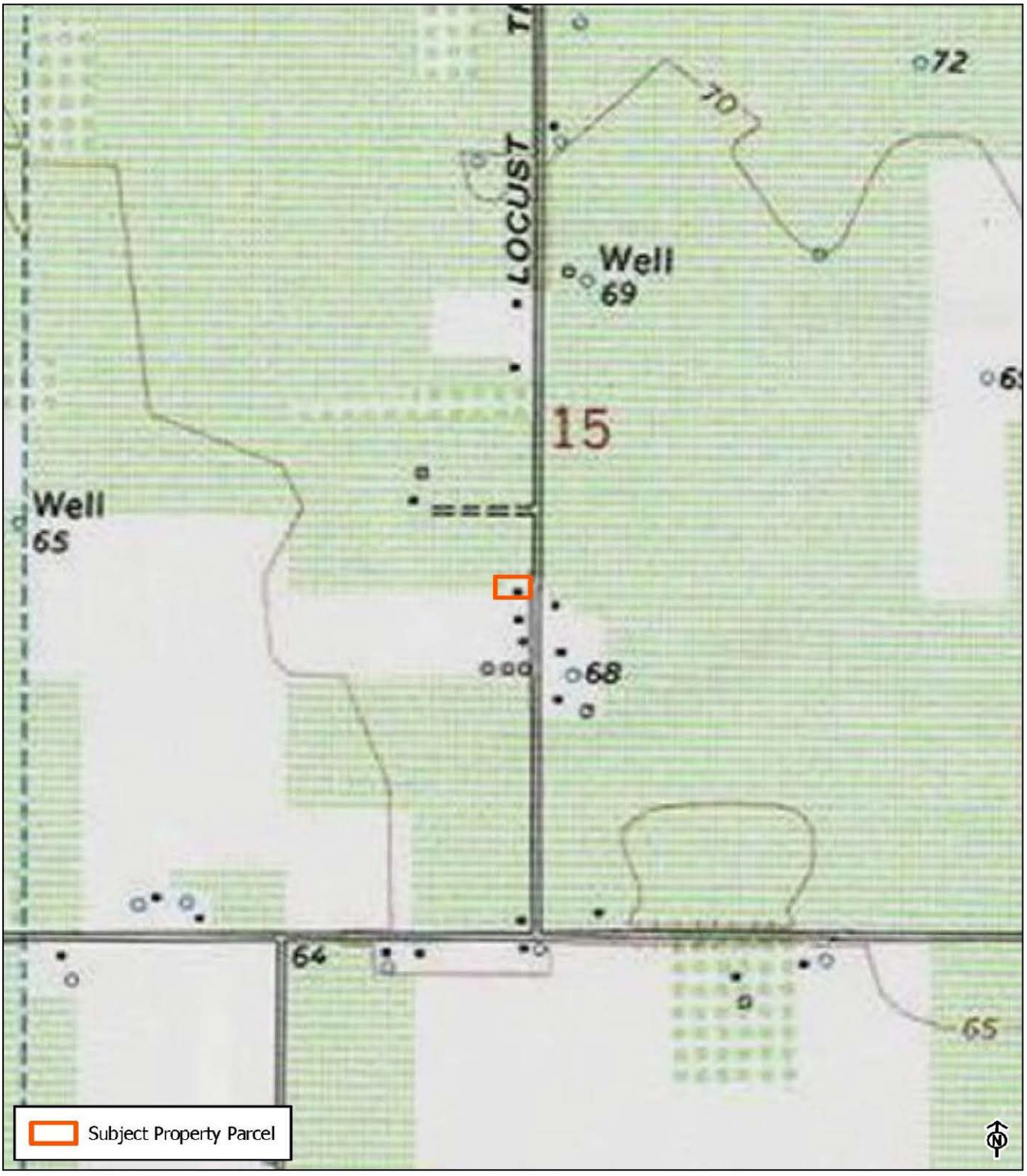
View of garage and house, facing west (Google Streetview 2012).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 13987 North Locust Tree Road (Resource ID 46)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 13915 North Locust Tree Road (Resource ID 47)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 15; MD B.M.
c. Address 13915 North Locust Tree Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 657919 mE/ 4219081 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-150-460

*P3a. Description:
This property consists of two residences, four historic-age outbuildings, and two modern-era fenced corrals on the east side of a 12-acre lot. The northernmost residence (Residence 1) is a Minimal Traditional-style one-story cottage with a side-gable roof. It has wide clapboard siding in its gable end and the north elevation with narrow clapboards on other elevations. The southernmost house (Residence 2) is a Mediterranean Style residence with a side-gable tile-clad roof intersected by a front-facing gable section. It has a stucco exterior, large original wooden picture windows, and a brick exterior fireplace. The outbuildings were not fully visible from public vantage points. They consist of two monitor-roof barns and two rectangular outbuildings based on aerials. Rows of crops occupy the west side of the parcel. Two paved driveways extend west from Locust Tree Road to the residences, with the driveway for Residence 2 continuing west of the house to access the outbuildings. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, January 2023

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1945 (NETROnline 2022; USGS 2022)

*P7. Owner and Address:
Clyde C. & Maralyn Culbertson
13915 North Locust Tree Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022

*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13915 North Locust Tree Road (Resource ID 47) ***NRHP Status Code** 3S
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 13915 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Minimal Traditional (Residence 1); Mediterranean (Residence 2)

***B6. Construction History:** Circa 1945 construction date (NETROnline 2022; USGS 2022). The date of construction for this property is not recorded in county assessor records. A 1939 USGS map shows no buildings in this location, however, by 1954 a USGS map shows a collection of buildings reflective of this complex (Parcelquest.com 2022; USGS 2022). This property includes two residences. Changes to Residence 1 include replacement roof, vinyl windows, and a sliding door added on the south elevation, all occurring within the past circa 30 years. Residence 2 has retained its original form and materials. Both houses are visible in a 1957 aerial photograph, which shows the existing outbuildings as well (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: **b. Builder**:

***B10. Significance: Theme** Architecture **Area** San Joaquin County
Period of Significance c.1945 **Property Type** Residential
Applicable Criteria N/A
The property at 13915 North Locust Tree Road includes a modest Mediterranean Style residence (Residence 2) that retains integrity of location, association, design, materials, feeling, and workmanship. Located within a historic farm complex, this property has undergone some diminishment of setting due to landscape and circulation updates. The Mediterranean Style was common between the two world wars and used for a variety of building types (City of Los Angeles 2018). Reflective of the Mediterranean Style, this house has stucco walls, a low-pitched tile roof, a flared front eave, and simple massing focusing on horizontal lines. This property is eligible for listing in the California Register of Historical Resources (CRHR) under Criterion 3 as a good example of a modest Mediterranean-style rural residence. It is a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

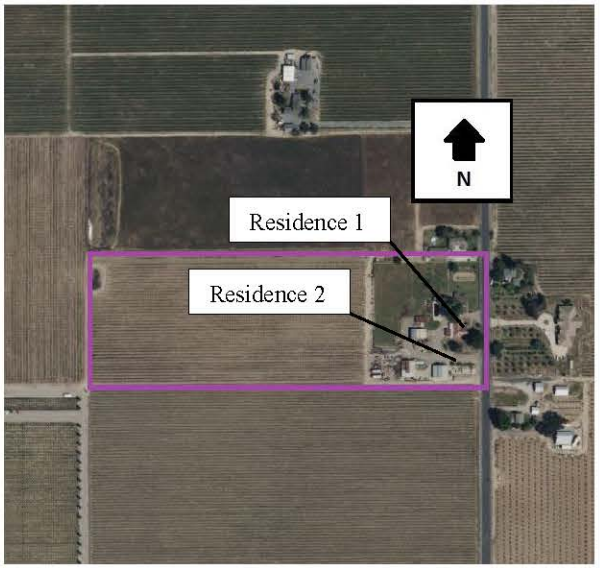
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 13915 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13915 North Locust Tree Road

A 1911 county atlas illustrates this property was located within an 80-acre lot owned by what appears to be "F.J. Mettler" (historicmapworks.com 2023). Fredrich J. Mettler, the son of Johann Mettler and Christina Schnabel, was born in 1864 in Kassel, Glueckstal, Odessa, South Russia and died in Lodi, California, in 1943. At the age of 10 he immigrated to the United States with his parents and siblings. He married Katharina Schnabel in 1884 in Menno, Dakota Territory. In 1920, Fredrich Katharina Mettler and had 13 children. The 1920 census indicates Fredrich worked as a farmer and owned his property in San Joaquin County (Find A Grave 2023). It unconfirmed if the Mettler's or members of their family built this house.

This property is previously unrecorded and unevaluated. The property includes two houses both shown with the existing outbuildings on a 1957 aerial photograph. Residence 2 reflects the Mediterranean Style, which was used for a wide variety of buildings and typically features stucco siding, tile roofs, and horizontal massing. This architectural style was common between 1918 and 1948 (City of Los Angeles 2018). The house retains its original design and massing and provides a good example of the Mediterranean Style used in a modest rural residential house. The exact date of construction for this house is not listed in assessor records (Parcelquest.com 2022). Available USGS maps showing this location indicate no building was on the property in 1939 and the next available map dates to 1953, when the existing complex of buildings is present. The building was constructed c.1945 based on its architectural style, map and historical aerial research (NETROnline 2022;USGS 2022). Residence 1 is Minimal Traditional in style yet is not a particularly good example of the style and has undergone modifications. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, research did not determine that it is not a particularly good example of farming. The property at 13915 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Though this property is associated with Friedrich J. Metter in 1911, it is undetermined if he built the house. Furthermore, no information was found about his historical significance. The property is not associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property includes two houses and outbuildings. Residence 1 is a common example of a Minimal Traditional house that lacks distinction architecturally, while Residence 2 is a good example of the Mediterranean Style used in a rural residence and conveys significance under CRHR Criterion 3. Distinctive elements of the Mediterranean Style that this house possesses are stucco walls, a low-pitched tile roof, and a simple massing focusing on horizontal lines. This property is eligible for listing in the California Register of Historical Resources (CRHR) under Criterion 3 as a good example of a modest Mediterranean-style rural residence.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 13915 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of Residence 1 has been modified with changes to siding, roofing, windows, and doors. Residence 2 has retained integrity of design. The outbuildings were not visible from public vantage points.

Setting is the physical environment of a historic property. Historical photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. Residence 2 has retained its original materials. Residence 1 has undergone modifications and has lost this aspect of integrity.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Residence 2 has retained its original workmanship. Residence 1 has undergone the noted modifications.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained its original circulation systems, setting, use, and building locations, allowing it to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, Residence 2 retains integrity and is a good example of the style and meets CRHR criterion 3. Therefore, the property is a historical resource for the purposes of CEQA. The period of significance is c. 1945, corresponding to the house's date of construction.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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City of Los Angeles. 2018. Los Angeles Citywide Historic Context Statement, Theme: Mediterranean & Indigenous Revival Architecture 1893-1948. Accessed February 1, 2023. https://planning.lacity.org/odocument/097f6db5-feee-43f5-a448-fd140763de90/MediterraneanandIndigenousRevivalArchitecture_1893-1948.pdf.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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Martin, A.A. 1904. *The Delta Lands of California*. Accessed December 20, 2022. https://www.google.com/books/edition/The_Delta_Lands_of_California/Bnk9AQAAMAAJ?hl=en&gbpv=0.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View of the two barns, photo dated 2012 (Google Streetview).

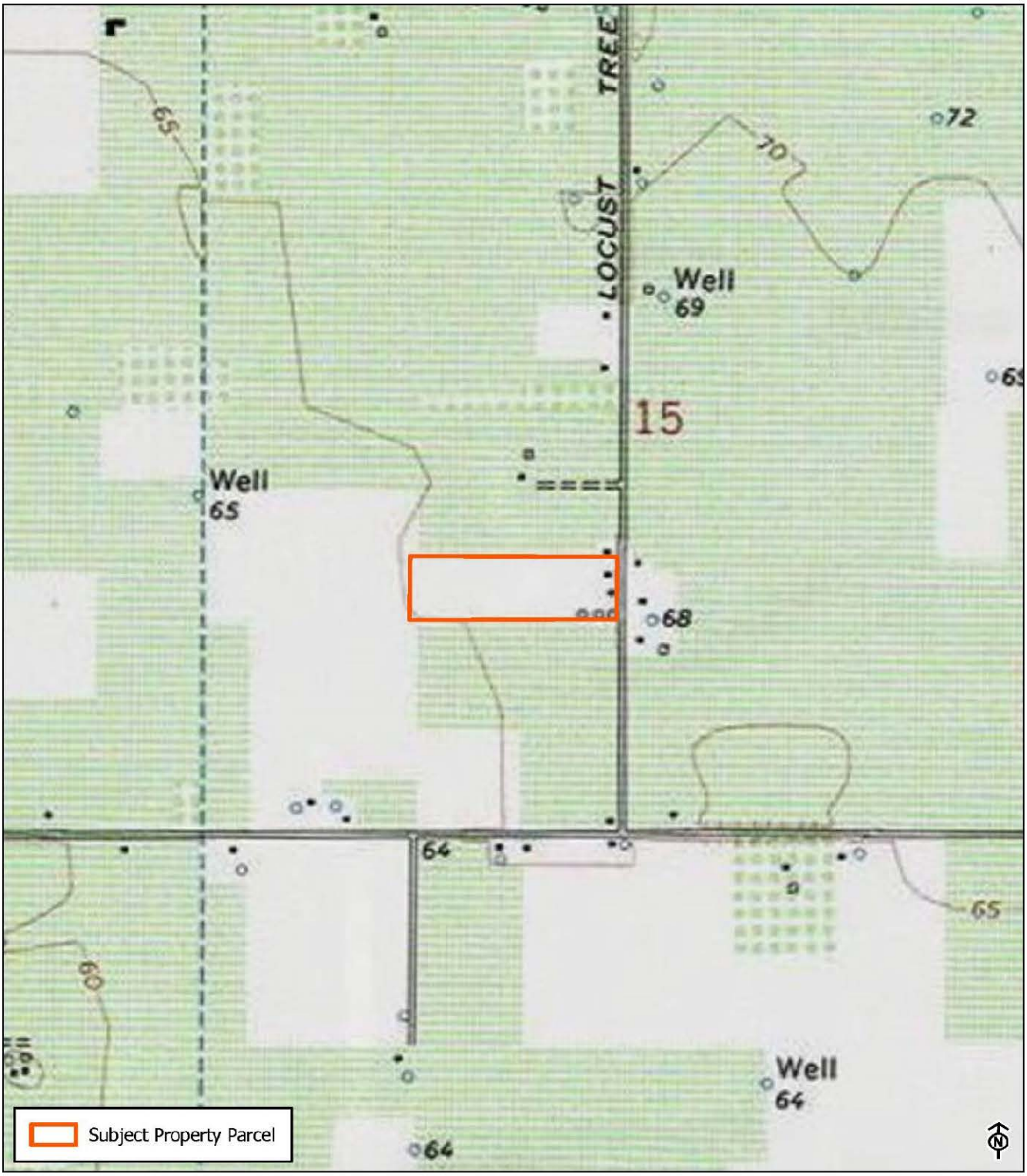
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 13915 North Locust Tree Road (Resource ID 47)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 13972 North Locust Tree Road (Resource ID 48)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 15; MD B.M.
c. Address 13972 North Locust Tree Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 658164 mE/ 4219156 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-150-520

*P3a. Description:
This 1.5-acre property includes a rural residence and associated detached garage with agricultural fields to the north and west. The residence was obscured by heavy vegetation from public vantage points. Aerials indicate it is a single-story house with a rectangle footprint and hipped roof. A square garage of a similar style is located south of the house. A 2014 Google Streetview image shows the house had clapboard siding with one-over-one and two-over-two double-hung horizontally-divided wood windows. The roof was composite shingle with satellite antennas on the northeast corner. The garage had a wide grave driveway leading to it from North Locust Tree Road. The residential portion of the property located at the southwest corner of the parcel is enclosed with a modern chain link fence. The remainder of the parcel is actively use agricultural land. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, 2014 (bing.com)

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1954 (Parcelquest.com 2022)

*P7. Owner and Address:
Omega Vineyards PTP
13972 North Locust Tree Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13972 North Locust Tree Road (Resource ID 48) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 13972 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** Residence built 1954 (Pacelquest.com 2022). The composite shingle roof and satellite dish on the southwest corner of the house roof and the chain link fence surrounding the property date from the last circa 30 years. The house and garage appear to retain original siding and windows. The garage door may be a replacement.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Residential development **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 13972 North Locust Tree Road is obscured by vegetation from public vantage points, prohibiting a full evaluation of integrity. It is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of integrity. Therefore, the property is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The property at 13972 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13972 North Locust Tree Road

A 1911 county atlas illustrates this property was located within a 160-acre lot owned by Fred Hieb (historicmapworks.com 2023). Research identified Hieb as a German-speaking native of Russia born circa 1858. In 1920 he lived in San Joaquin County and worked as a farmer. On April 10, 1930, the newspaper described Fred Hieb died and left his wife Katrina and eight children a large estate (*Stockton Daily Independent* 1930). It is unlikely that Hieb built this house due to his early date of birth. It may have originally been built by one of his descendants but this was not corroborated by research.

This property is previously unrecorded and unevaluated. Constructed in 1954, the modest wood-frame hip-roof house reflects a common style of construction in the post-World War II period. A 1957 aerial photograph shows the house and garage surrounded by what appears to be a vineyard. Since that time, aerial photographs show that the property retains its original form and setting. The property is evaluated.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, research did not determine that it is not a particularly good example of farming because it does not include outbuildings common to working farm properties. The property at 13972 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Though this property is associated with Fred Hieb, an early twentieth-century landholder, it is unlikely he built this house and no information was found about his historical significance. The property is not associated with any significant achievements of any individual persons. This property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not architectural significance. The property includes one hip-roof single-story house with detached garage built in 1954. The house was obscured from public vantage points but research indicates the house is a modest residence without distinction. Therefore, this property is not eligible for listing in the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 13972 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of this property could not be fully assessed due to trees obscuring the view of the property.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of this property could not be fully assessed due to trees obscuring views of the property.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of this property could not be fully assessed due to trees obscuring views of the property.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained its original circulation systems, setting, use, and building locations, allowing it to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In summary, due to vegetation obscuring views of the property, its integrity could not be thoroughly analyzed. The property does not meet the CRHR criteria. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Bing.com. 2023. Streetview photographs of property. Accessed February 2, 2023. Bing.com.

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City of Los Angeles. 2018. Los Angeles Citywide Historic Context Statement, Theme: Mediterranean & Indigenous Revival Architecture 1893-1948. Accessed February 1, 2023. https://planning.lacity.org/odocument/097f6db5-feee-43f5-a448-fd140763de90/MediterraneanandIndigenousRevivalArchitecture_1893-1948.pdf.

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Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

Stockton Daily Independent. 1930. "Large Estate Left By Fred Hieb to Widow." April 10, 1930. Accessed February 2, 2023, newspapers.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



Garage and gravel driveway, facing west, taken 2014 (Bing.com 2023).

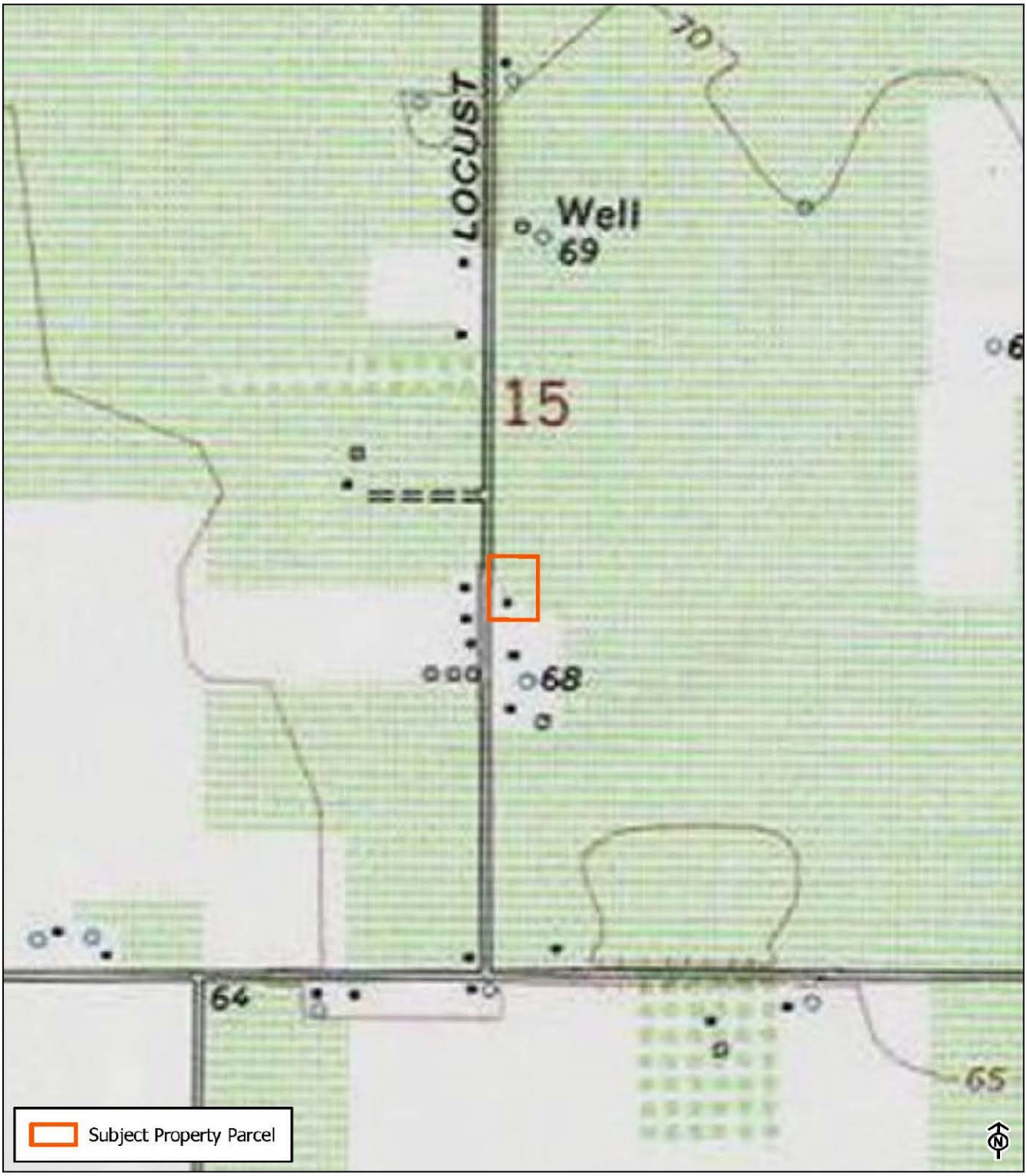
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 13972 North Locust Tree Road (Resource ID 48)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) 14262 North Locust Tree Road (Resource ID 49)
P1. Other Identifier: N/A
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; NE **1/4 of Sec** 15 ; MD **B.M.**
c. Address 14262 North Locust Tree Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 658614 mE/ 4219647 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-150-170

***P3a. Description:**
The 20-acre rural property at 14262 North Locust Tree Road includes a Ranch-style residence and associated garage at the southwest corner of the large parcel. The residential complex is surrounded by agricultural land. The house is one-story with a side-gable tiled roof that projects over a small concrete entry stairway supported by plain wooden beams. The siding appears to be stucco and there is a brick chimney at the eastern elevation. The garage was not visible from public vantage points but appears to have a square footprint and simple roof form. An asphalt driveway extends north from the dirt road located south of the house and turns west in front of the house to join another dirt road that follows the western property line. The west end of the driveway is flanked by poplar trees. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 2. Single Family Property
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
1970 (San Joaquin County Assessor)

***P7. Owner and Address:**
Back To the Roots LLC
695 North Plumas Drive
Mountain House, CA 95391

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐ NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14262 North Locust Tree Road (Resource ID 49) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 14262 North Locust Tree Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1970 – residence constructed (Parcelquest.com 2022). The earliest aerials available for the area are from 1957 and 1967 and show this lot as agricultural land. The next aerial from 1984 shows the existing house, garage, and pool. The driveway reflects its current design in that aerial. Sometime after 2010 the pool was removed, and solar panels were added to the garage roof (NETROnline 2022)

***B7. Moved?** ☑**No** ☐ **Yes** ☐ **Unknown** **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Residence
Applicable Criteria N/A
The property at 14262 North Locust Tree Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property retains integrity yet does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 14262 North Locust Tree Road is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14262 North Locust Tree Road

This property is previously unrecorded and unevaluated. The house is a plain example of the Ranch Style, which was commonly built between 1930 and 1975 (City of Los Angeles 2015; McAlester and McAlester 2022). It appears to be unaltered. A Los Angeles context statement for Ranch-style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers (City of Los Angeles 2015)." According to *A Field Guide to American Houses,* the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester and McAlester 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. This Ranch-style house is not part of a larger development that could convey significance for post-World War II suburban development. Although the house is within a large agricultural parcel it does not convey significance for its associations with farming and lacks farm-related outbuildings necessary to support this association. The property at 14262 North Locust Tree Road is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not determine who lived at the resource. The property is not associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Ranch-style house is a common expression of the form. Unlike more noteworthy examples of this style, this house follows a symmetrical (rather than asymmetrical) form, without an attached garage, off-set front door, or large picture windows. The property lacks distinction under CRHR Criterion 3 and therefore it not eligible under this criterion.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 14262 North Locust Tree Road has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The property is largely unaltered and appears to retain integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property is largely unaltered and appears to retain integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property is largely unaltered and appears to retain integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained its original circulation systems, setting, use, and building locations, allowing it to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, property at 14262 North Locust Road retains integrity but lacks significance. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

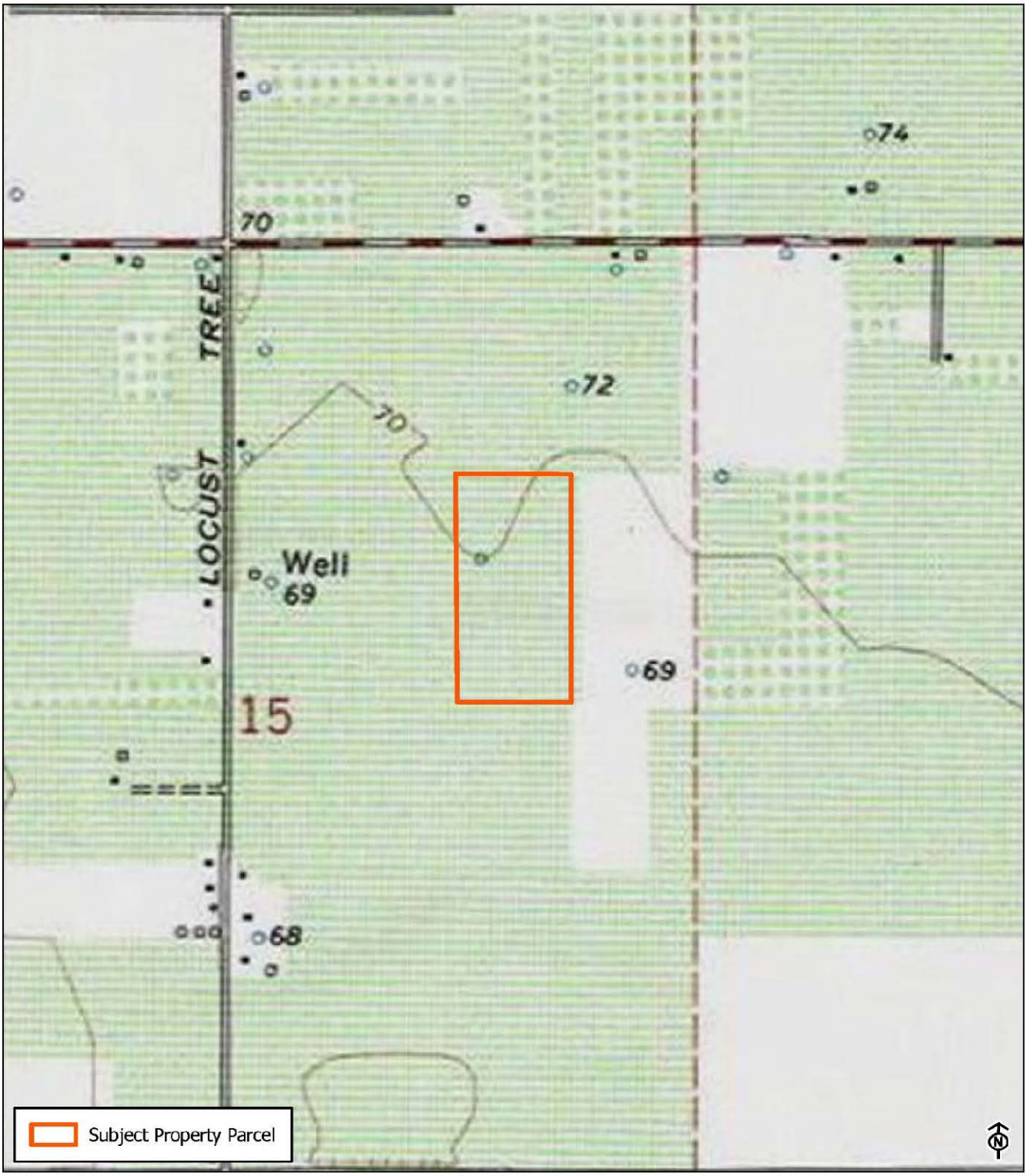
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14262 North Locust Tree Road (Resource ID 49)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 8 ***Resource Name or #:** 14345, 14213 and 14211 North State Route 88 (Resource ID 50)
P1. Other Identifier: N/A
*P2. **Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; NW **1/4 of Sec** 14 ; MD **B.M.**
c. Address 14345, 14213 & 14211 North State Route 88, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 659544 mE/ 4216914 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-160-170, 063-160-150, and 063-160-140

***P3a. Description:**
This 50-acre rural property consists of three tax parcels owned by one individual. The property is primarily agricultural fields with buildings located on the east side of the property fronting on North State Route 88. The historic-era buildings on this property consist of a heavily-modified Craftsman-style residence (built 1919), barn, detached garage, covered riding arena (constructed before 1957), and a partially destroyed residence (built 1941). The Craftsman residence is one story with a side-gable roof, exposed rafter tails, slatted gable end, and clapboard exterior. Metal fencing has been added to the partial-width porch on this residence, obscuring the facade. The detached garage has a metal roof and one garage bay. The barn is a simple metal structure with a front-gable roof. Another gable roof outbuilding is located south of the barn. In front (east) of the barn are two small, fenced fields divided by a driveway leading from North State Route 88 to the barn. The partially destroyed residence is missing its roof and some walls and siding. The property is set in an agricultural area of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP2. Single Family Property
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐Prehistoric ϒ Both
1919, 1941 (Parcelquest.com 2022)

***P7. Owner and Address:**
Jose C. Viramontes
14345 N State Route 88,
Lodi, CA 95240

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** 14345, 14213 and 14211 North State Route 88 (Resource ID 50) ***NRHP Status Code** 6Z
Page 2 of 8

B1. Historic Name: N/A
B2. Common Name: 14345, 14213 & 14211 North State Route 88
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Craftsman

***B6. Construction History:** 1919 and 1941 - residences constructed (Parcelquest.com 2022). The earliest available aerials photographs from 1957 and 1967 show this property included the Craftsman-style house (14345 North State Route 88) to the north, the circa 1941 house (14211 North State Route 88) to the south, and the barn between them. A currently extant gable roof outbuilding south of the barn is also evident in the early photos. The Craftsman-style house has been altered through replacement windows, solar panels on the roof, metal fencing attached to the façade, and a modern garage on its east elevation. Between 1993 and 2002, the area north of the Craftsman-style house ceased being used as cropland and became a storage area for containers or possibly recreational vehicles. Aerials indicate during the early 2000s, the property became more heavily used for farming operations evidenced by a new metal building added south of the barn and recreational vehicles spread across the property presumably housing laborers. The small fields east of the barn began being used as a corral at this time as well.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
This property is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

This 50-acre property (consisting of 14211, 14213 and 14345 North State Route 88) is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14211, 14213 and 14345 North State Route 88

A 1911 county atlas illustrates this property was owned by James Jory, with members of the Jory family owning most of Section 14, Township 3 N, Range 7 E where the property is located (historicmapworks.com 2023). Research determined James Jory was born in 1846 in England, immigrated to the United States, and died in Stockton California in 1926. His death certificate stated he was married to Elizabeth Jory and had been employed as a farmer (ancestry.com 2023). The Craftsman-style house on this property was built in 1919 but is undetermined if Jory was its builder. The other residence on the property is partially demolished and dates to 1941, after Jory died (Parcelquest.com 2022). A review of aerial photographs suggests that between 1967 and 1986 the modular home located south of the partially demolished 1941 house was added to the property (NETROnline 2022).

This property is previously unrecorded and unevaluated. Constructed in 1919, the Craftsman-style residence reflects a style that was widely popular in the United States and California between 1905 and 1930. Examples of the style typically are one to one-and-a-half stories tall and are characterized by a low-pitched, gable roof (sometimes hipped) with oversized eaves, exposed roof rafters, full or partial-width porches supported by tapered square columns or battered columns, and windows placed in groups or bands. The walls are usually clad with clapboard, shingle, stone, brick, and clinker brick. Early examples exhibit characteristics of the transitional Arts and Crafts style (McAlester and McAlester 1984). This example has undergone numerous modifications, including replacement windows, solar panels on the roof, metal fencing attached to the façade, and a modern garage on its east elevation. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it has lost integrity and does not convey for this association. The property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Though this property was once owned by James Jory it is undetermined if he built the earliest residence on the property. He was deceased by the time the other house (now partially demolished) was built in 1941. Furthermore, no information was found about his historical significance. The property is not associated with any significant achievements of any individual persons and therefore is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The property includes two houses and outbuildings, all which have been heavily modified or are modern-era. The house built in 1941 is partially demolished, while the Craftsman-style house built in 1919 has replacement windows, solar panels on the roof, metal fencing attached to the façade, and a modern garage on its east elevation. The barn has replacement metal siding. New buildings and circulation routes have been added throughout the property. Therefore, this property is not eligible for the CRHR under Criterion 3 due to a lack of integrity.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Both residences and the barn on this property have been modified. The barn has replacement metal siding; the house built in 1941 is partially demolished; and the Craftsman-style house built in 1919 has been modified through replacement windows, solar panels on the roof, metal fencing attached to the façade, and a modern garage on its east elevation. These changes result in a loss of the integrity of design.

Setting is the physical environment of a historic property. Historical photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. However, the overall use of the land within the residential/farm building portion of this parcel is heavily modified with the reuse of areas once used as either pastureland or agricultural fields for temporary storage or recreational vehicle parking for laborers. However, the parcel retains its agricultural surroundings.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted design changes have resulted in a loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes result in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The parcel is cluttered with equipment and storage, diminishing its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Ancestry.com. 2023. Death Certificate for James Jory. Accessed February 6, 2023. Ancestry.com.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View northwest showing north portion of Craftsman residence (Jacobs 2022).



View of garage and Craftsman-style house with barn in background (Jacobs 2023).



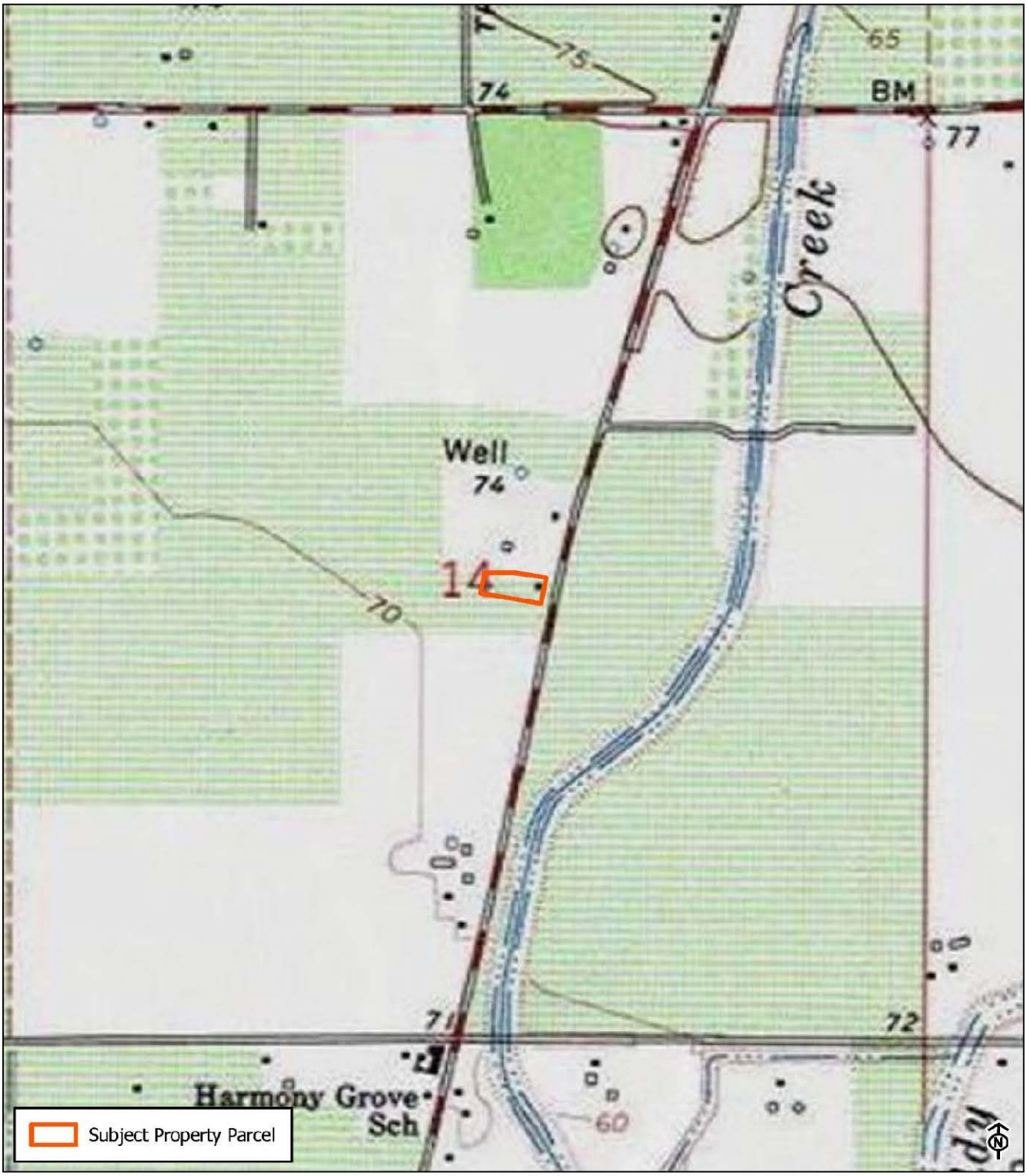
View west showing partially demolished 1941 residence with modern modular home to north (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** 14345, 14213 and 14211 North State Route 88 (Resource ID 50)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: (Assigned by recorder) Bear Creek Levee (Resource ID 51)
P1. Other Identifier: 11425 East Harney Lane & 14454 North State Route 88

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 14; MD B.M.
c. Address 11425 East Harney Lane & 14454 North State Route 88 Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Southern Terminus Zone 10S, 659785 mE/ 4218700 mN, Nothern Terminus Zone 10S, 660201 mE/ 4219749 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-160-370, 063-160-340

*P3a. Description:
This form records and evaluates a 0.76-mile-long segment of Bear Creek, which has been channelized with steep embankments within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. Bear Creek originates from Valley Springs Peak over 20 miles northeast of Lodi. Many miles of the west end of the creek have been straightened to flow in manmade earthen ditches and therefore no longer retain their appearance as part of a natural waterway. The subject segment of Bear Creek also has been straightened and features leveed walls of moderate slope that are overgrown with grass. Gravel levee crowns on either side of Bear Creek are approximately 20 feet wide.

*P3b. Resource Attributes: (List attributes and codes) HP 20. Canal/Aqueduct
*P4. Resources Present: ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022
*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1963-1967 (NETROnline 2022)
*P7. Owner and Address:
WEK Eighty Eight Ranch LLC
374 Lincoln Court
Stockton, CA 95207

Jose C. Viramontes
PO BOX 2244
Lodi, CA 95241

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833
*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** Bear Creek Levee (Resource ID 51) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: Bear Creek Levee
B2. Common Name: Bear Creek Levee
B3. Original Use: Flood Control
B4. Present Use: Flood Control
***B5. Architectural Style:** N/A

***B6. Construction History:** Circa 1963 – 1967, Bear Creek channelized (NETROnline 2022). A 1957 aerial shows the natural, meandering path of Bear Creek. Review of a 1968 USGS map shows it had been straightened by that time (NETROnline 2022; USGS 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Flood Control **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Water Conveyance
Applicable Criteria N/A
This segment of the Bear Creek levee is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

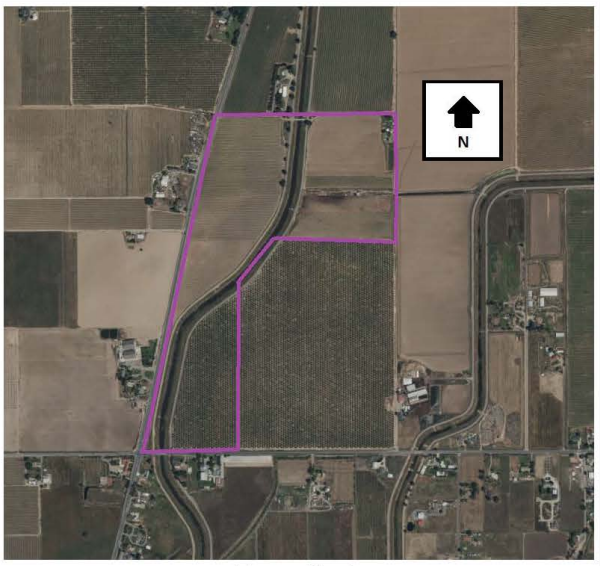
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

This segment of the Bear Creek Levee is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Additional railroads and road development occurred over time and with the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

The crop diversification that occurred during the twentieth century required the construction of more irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the API environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; U.S. Geological Survey [USGS] 2022). This includes the Bear and Paddy creeks, which intersect the center of the API. A 1908 topographic quadrangle, the earliest available for the area, shows their meandering courses extending through the API immediately east of present-day SR 88. This also is reflected in subsequent quadrangles and aerials through 1961. By 1967, however, an aerial shows all three creeks had been channelized to follow their current, straighter paths. According to a 1977 report by the U.S. Army Corps of Engineers, channelization of Bear Creek in San Joaquin County was completed between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway. The project was intended to protect agricultural land, suburban areas, and transportation corridors from the devastating effects of floods (U.S. Army Corps of Engineers 1977). Paddy Creek likely was channelized during the same period for flood protection purposes.

The entire API falls within the NSJWCD, which was formed in 1948 to provide groundwater management (NSJWCD 2022). It represents one of the water storage and conservation districts created in California after the late 1920s in response to the "increased demand for storage and coordination of interested on larger streams" (JRP Historical Consulting and Caltrans 2000:15). The NSJWCD currently encompasses 150,000 acres east of Lodi on both sides of the Mokelumne River and includes features such as pump stations, recharge sites, and reservoirs for water storage (all outside the API).

Bear Creek Levee

The U.S. Army Corps of Engineers channelized and added earthen embankments to Bear Creek between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway (U.S. Army Corps of Engineers 1977, NETROnline 2022).

A newspaper article from April 28, 1965, describes plans for construction of the federally funded Bear Creek levee. The Army Corps of Engineers opened bids on the Bear Creek Channel and levee, which included work on Paddy Creek as well. The low bidders, who presumably built the levee, were Larry Aksland of Manteca and Fresno Paving Company, Inc. The contractor's price for the whole project, including the Bear Creek work, was $877,101 *(The Modesto Bee* 1965). Larry Aksland operated a general contracting company specializing in heavy excavating, grading and subdivisions *(Ripon Record* 1975). By 1969 *Stockton Evening and Sunday Record* newspaper article described, "The Bear Creek improvement has been credited with preventing flood damage in heavy rainfall seasons since its completion" (*Stockton Evening and Sunday Record* 1967).

In 1977, the U.S. Army Corps of Engineers described the Bear Creek project "provides flood protection to 30,000 acres of highly developed orchards, vineyards and croplands; suburban areas adjacent to the City of Stockton; and main highways; railroads and industrial installations." The total federal cost of the project was $3.2 million, while local interests contributed $3.7 million through land acquisitions and utility alterations. The project is maintained by local interests (U.S. Army Corps of Engineers 1977). A review of historic aerial photograph shows in the inventoried section of the Bear Creek levee required the flow of the creek to be moved east approximately 150 feet. A 1967 photograph shows the straightened and widened creek in its new location with what appears to be the existing bridge over it (NETROnline 2022).

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional or national history. The property is related to federally funded flood control projects in San Joaquin County during the mid-twentieth century. Flood control projects are common throughout California. This small-scale project does not stand out as a particularly early or important example of such a flood control project. Therefore, the Bear Creek levee segment is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. This property is not associated with the achievements of any significant individuals. This property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this flood control levee is a common design without engineering significance. Construction of the Bear Creek levee was funded by the U.S. Army Corps of Engineers and built by Larry Aksland serving as the general contractor. Research did not indicate that Aksland had distinction within his field or that this levee has significance under CRHR Criterion 3. The property lacks distinction under CRHR Criterion 3. Research did not show it overcame a design or engineering challenge or that its design was innovative or influential. It also is not significant for its methods of construction or materials. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. Although Bear Creek was moved to the east, channelized and levees built for flood control, the Bear Creek Levee has not moved since it was built. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the levee has not been modified; therefore, the property retains its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This earthen levee retains integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the levee remains intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form in a rural setting allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property retains its associations with a flood control projects in San Joaquin County.

In conclusion, the Bear Creek levee retains integrity, yet does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Stockton Evening and Sunday Record. 1967. "North Area Protection from Floods." September 23, 1967.

The Modesto Bee. 1965. "Two Firms Bid Low on SJ Channel Job." April 28, 1965.

U.S. Army Corps of Engineers. 1977. *California Water Resources Development*. Accessed December 20, 2022. https://www.google.com/books/edition/Water_Resources_Development_in_Californi/GXcYAQAAIAAJ?hl=en&gbpv=0

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View facing south from bridge located on property at 14454 North State Route 88 (Jacobs 2022).

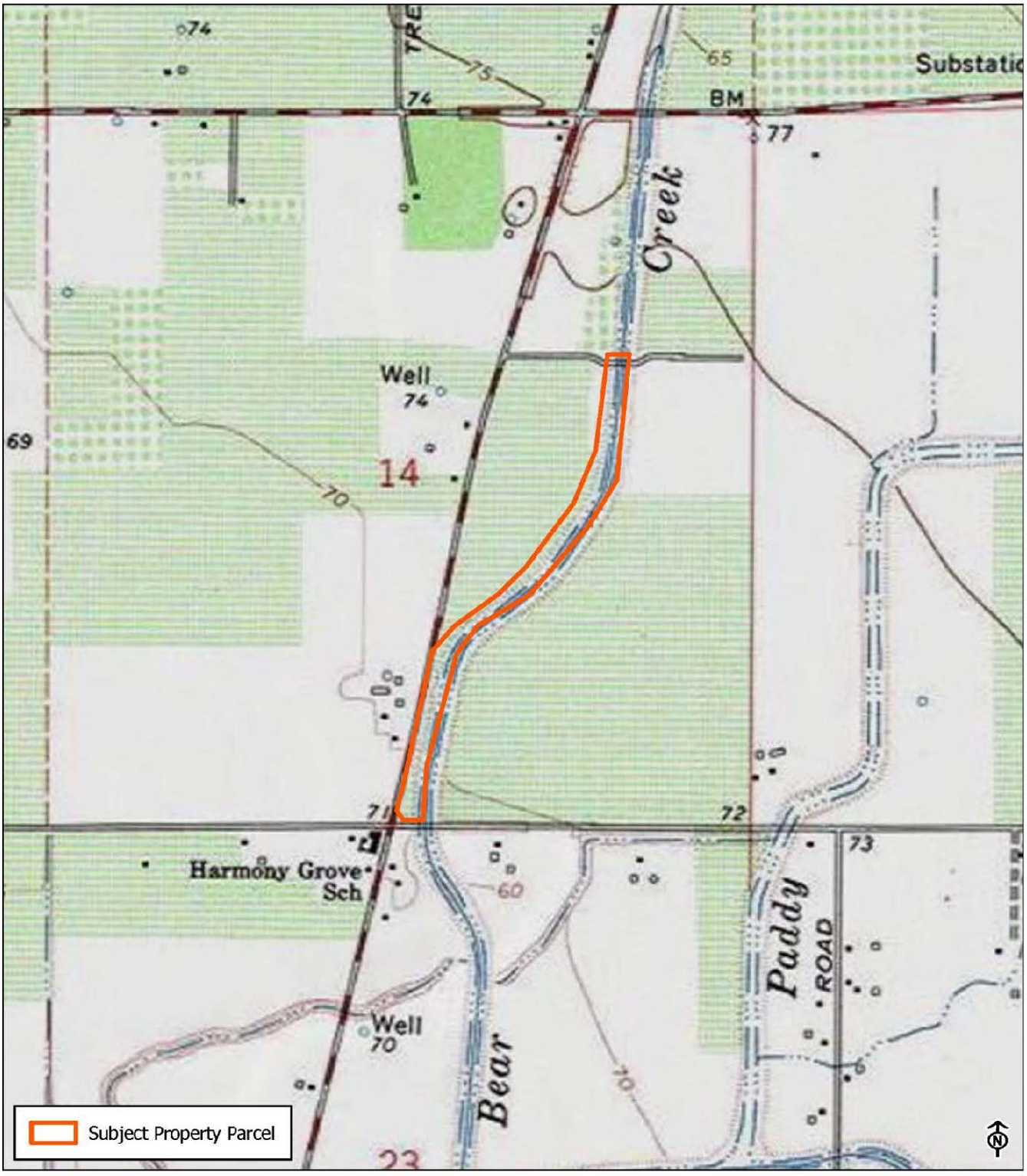
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

 *Resource Name or # Bear Creek LEvee (Resource ID 51)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 12401 East Kettleman Road (Resource ID 52)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 12; MD B.M.
c. Address 12401 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 660871 mE/ 4220763 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-190
*P3a. Description:
This 147-acre parcel includes a historic-era farm building and a non-historic-era mobile home along East Kettleman Lane that are surrounded by an orchard. The rectangular farm building has a side-gable roof and is constructed with sheet metal siding. No fenestration was visible from public vantage points. A dirt driveway leads north from the road to the farm building and mobile home to the west. East of the outbuilding and mobile home is a driveway leading to the middle of the property. Although not visible from public vantage points, aerials how a historic-era building surrounded by several modern-era buildings in the middle of the property (NETROnline.com 2022). The property is set in an agricultural area east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 33. Farm/Ranch
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) Farm building, view northwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐Prehistoric ☐ Both
Circa 1942 (USGS 2022)

*P7. Owner and Address:
Cooper Out West Inc
P.O. Box 226
Linden, CA 95236

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 12401 East Kettleman Road (Resource ID 52) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 12401 East Kettleman Lane
B3. Original Use: Agricultural
B4. Present Use: Agricultural
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** The farm building is first visible in a 1942 USGS map; therefore, it is estimated to have been built circa 1942 (USGS 2022). The mobile home west of the farm building was added sometime between 2010 and 2012 (NETROnline 2022). In the middle of the 147-acre parcel is another building that is visible in the 1957 aerial, the first aerial available for the area. That building could not be seen from public vantage points. Modern-era buildings were added directly adjacent to it in recent decades (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Agricultural
Applicable Criteria N/A
The property at 12401 East Kelttleman Lane is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance and integrity. Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

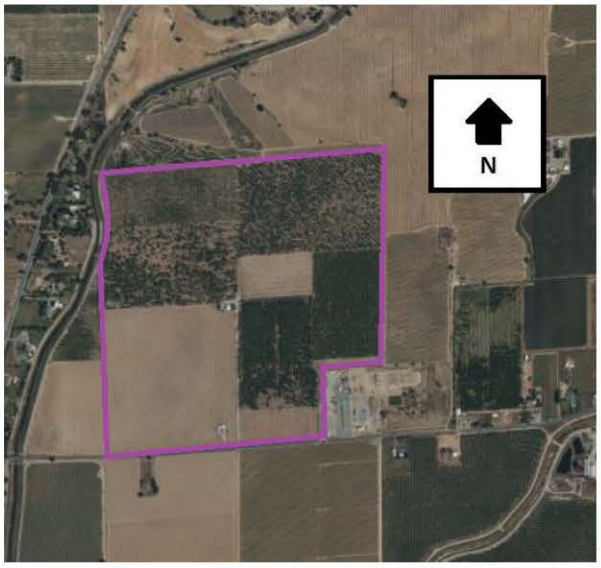
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 12401 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

12401 East Kettleman Lane

A 1911 county atlas illustrates this property was located within a 160-acre lot owned by Fred Hieb (historicmapworks.com 2023). Research identified Hieb as a German-speaking native of Russia born circa 1858. In 1920 he lived in San Joaquin County and worked as a farmer On April 10, 1930, the *Stockton Daily Independent* newspaper described Fred Hieb died and left his wife Katrina and 8 children a large estate (*Stockton Daily Independent* 1930). It is unlikely that Hieb built the circa 1942 farm building due to his date of death. It may have been built by one of his descendants, but this is not corroborated by research.

This property is previously unrecorded and unevaluated. Aerial photographs show the building in the middle of the parcel has undergone the addition of one large building and other small buildings directly adjacent to it in recent decades. The metal-sided farm building along East Kettleman Lane is a utilitarian building with a simple rectangular form. A modern-era mobile home was added west of it (NETROnline 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, research did not determine that it is a particularly good example of farming because its original use is not immediately apparent. The property at 12401 East Kettleman Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for associations with the lives of persons important to history. Though this property is associated with Fred Hieb, an early twentieth-century landholder, it is unlikely this property was built by Hieb because he died in 1930 and the farm building on the property was built circa 1942. Furthermore, no information was found about Hieb's historical significance. The property is not associated with significant achievements of individual persons. Therefore, it is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not architecturally significant. The property includes one gable- roof metal-sided farm building and another building not visible from public vantage points. The property reflects utilitarian farm buildings ad is not distinguished in its design or overall layout. Therefore, this property is not eligible for listing in the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 12401 East Kettleman Lane has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The materials of the farm building appear to date to the historic period. Overall, the property continues to convey its original appearance, and therefore the integrity of design of the property is intact.

Setting is the physical environment of a historic property. Historical photographs show the neighboring agricultural properties in a similar arrangement to what they are today and the overall continued use of the property for agriculture. The addition of the mobile home west of the farm building and the addition of several buildings in the middle of the parcel have modified the setting. Therefore, the integrity of setting has been diminished integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of the farm building appear to date to the historic period. Therefore, this property retains integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The integrity of workmanship is intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has undergone modifications to its feeling due the addition of a modern-era mobile home directly adjacent the farm building, adding several modern-era buildings added directly adjacent to the historic-era building in the middle of the parcel. These changes have diminished the property's integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has diminished integrity and does not meet any of the CRHR criteria. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Stockton Daily Independent. 1930. "Large Estate Left By Fred Hieb to Widow." April 10, 1930. Accessed February 2, 2023, newspapers.com.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View north showing farm building (left) and driveway to buildings at center of parcel (right) (Jacobs 2022).

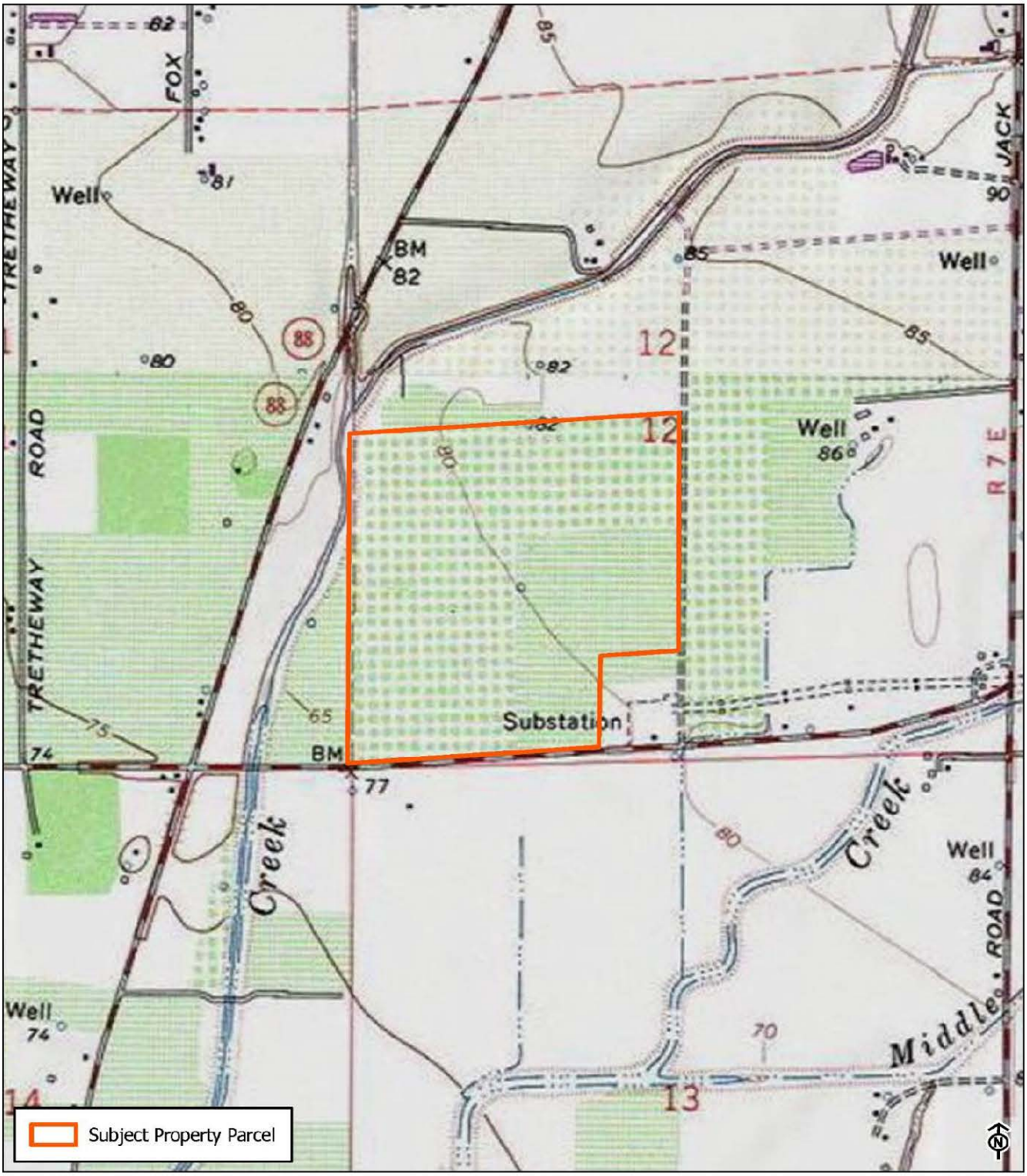
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 12401 East Kettleman Road (Resource ID 52)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 12021 Harney Lane (Resource ID 53)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 13; MD B.M.
c. Address 12021 Harney Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 660660 mE/ 4219113 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-250-160
*P3a. Description:
This 51-acre property is a dairy farm. The historic component of this property consists of a moderate sized gable on hip roof metal open-air shed (flanking the south side of a large barn built in the last 30 years) and two small gable-roof rectangular buildings southwest of it (NETROnline 2022). There are two residences on the property also built within the past 30 years. The moderate sized shed is rectangular with corrugated metal siding that other two buildings were difficult to see. The residential and farm buildings are in the south end of this large rectangular tax parcel. Paddy Creek Levee bounds the property to the east. Metal pipe fencing divides the land surrounding buildings into pasture and dirt feed lots. The northern portion of the property is agricultural land. The property is set in an agricultural area east of Lodi. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP33. Farm/Ranch



*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐Site ☐ District ☐ Element of District ☐Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View northwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
Circa 1967 (NETROnline 2022)

*P7. Owner and Address:
Francisco S. & Laurinda Chaves
12754 Harney Lane
Lodi, CA 95240

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 12021 East Harney Lane (Resource ID 53) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 12021 East Harney Lane
B3. Original Use: Agricultural
B4. Present Use: Agricultural
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** Small barn built circa 1967 (sometime between 1957 and 1967 based on review of aerials) (NETROnline 2022). This farm has been substantially modified over the years. Aerial photographs show in 1957, the property included what were either farm or residential buildings and related driveways west of Paddy Creek. The Paddy Creek Levee Project in the 1960s resulted in the realignment of the creek and creation of the levee, which now forms the east boundary of the property. A 1967 aerial shows three currently extant buildings: a moderate sized gable on hip roof metal open-air shed (flanking the south side of largest building on property) and two small gable-roof rectangular buildings southwest of it. The other buildings on the property consist of a large barn added to the side of the small barn and two residence built within the past 30 years (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Agricultural

Applicable Criteria N/A
The property at 12021 East Harney Lane is not eligible for listing in the California Register of Historical Resources (CRHR) die to a lack of integrity and significance. Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The property at 12021 East Harney Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

12021 East Harney Lane

A 1911 county atlas illustrates this property was located within a 160-acre lot owned by Fred Hieb (historicmapworks.com 2023). Research identified Hieb as a German-speaking native of Russia born circa 1858. In 1920 he lived in San Joaquin County and worked as a farmer. On April 10, 1930, the newspaper described Fred Hieb died and left his wife Katrina and eight children a large estate (*Stockton Daily Independent* 1930). The buildings on this property post-date Hieb. It was undetermined if his descendants built the historic-era resources on the property.

This property is previously unrecorded and unevaluated. Aerials show the property underwent a major change between 1957 and 1967 when the Paddy Creek levee realigned the creek to follow the eastern boundary of this property. The arrangement of buildings was modified by 1967. In 1967 the moderate sized gable on hip roof building is present and used today as an open-air shed on the southwest corner of the large barn. The two gable roof outbuildings southwest of the barn are also evident in 1967 (NETROnline.com 2022). The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, research did not determine that it is a particularly good example of farming because of the numerous changes that have occurred within the property. The property at 12021 East Harney Lane is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for associations with the lives of persons important to history. Though this property is associated with Fred Hieb, an early twentieth-century landholder, the buildings on it date from after his death, and it is unclear if his heirs may have built the buildings. The property is not associated with significant achievements of individual persons and therefore is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not architecturally significant. It includes two gable roof outbuildings and a gable on hip roof building used as a utilitarian historic-era open air shed. The property has undergone numerous additions of modern-era farm buildings on the parcel. This property lacks architecture or engineering significance and has lost integirty. Therefore, it is not eligible for listing in the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the property at 12021 East Harney Lane has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the gable on hip roof building and two gable roof outbuildings appear to retain integrity of design. However, the overall design of the complex has been modified by the addition and removal of buildings. Therefore, the integrity of design of the property has been diminished.

Setting is the physical environment of a historic property. Aerials photographs show setting remains unchanged from the property's circa 1967 construction date.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The materials of the buildings appear intact.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes to materials have also diminished integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has undergone the addition of new buildings within the past 30 years, resulting in a diminishment of its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR criteria. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

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No author. 1890. *An Illustrated History of San Joaquin County, California*. Accessed December 20, 2022. https://www.google.com/books/edition/An_Illustrated_History_of_San_Joaquin_Co/v8FBAQAAMAAJ?hl=en&gbpv=0.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View north showing moderate size barn with modern-era residences (Jacobs 2022).

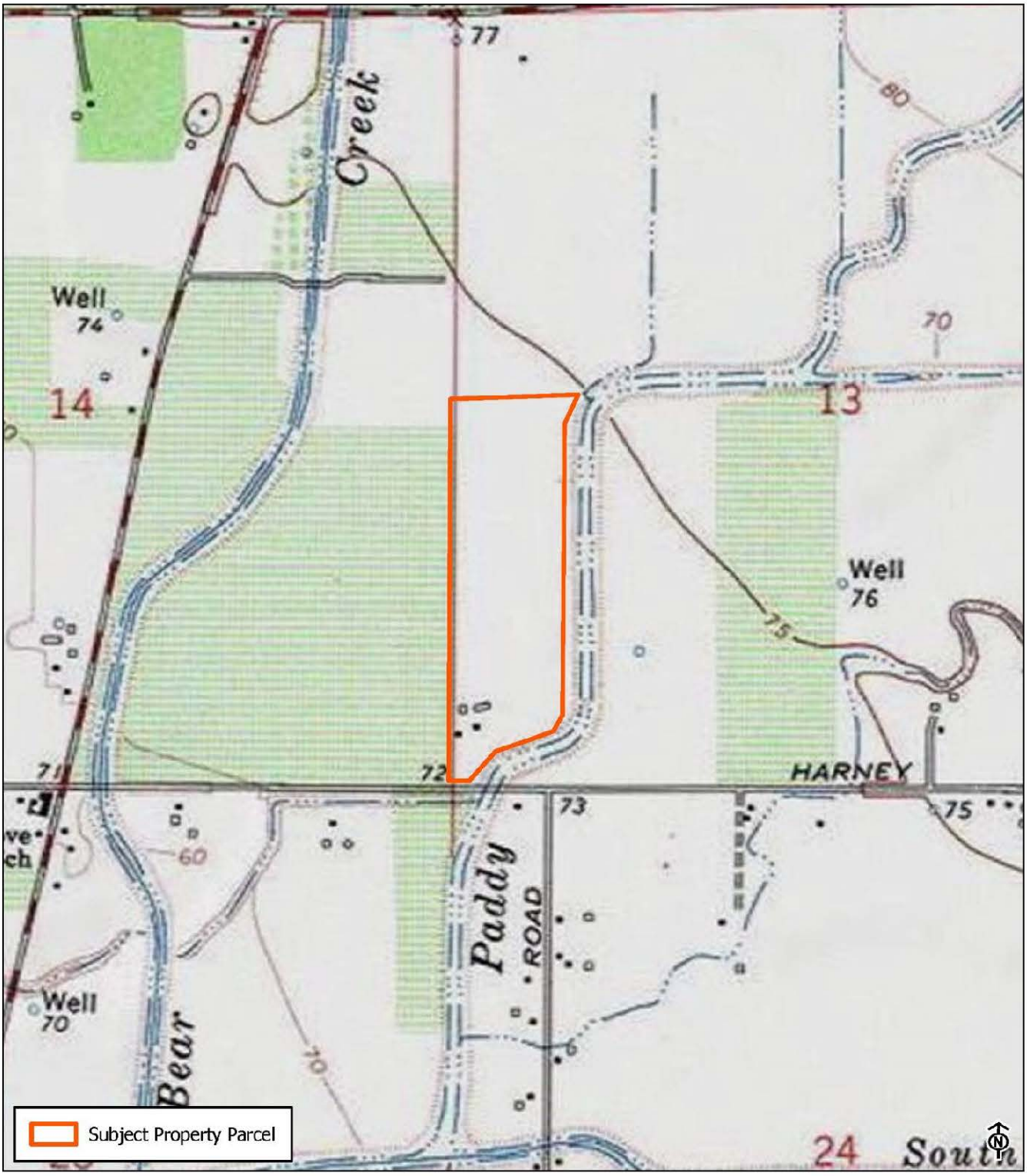
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 12021 Harney Lane (Resource ID 53)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) PG&E Lockeford Substation (Resource ID 54)
P1. Other Identifier: PG&E Lockeford Substation
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 12; MD B.M.
c. Address 12651 and 12861 East Kettleman Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661205 mE/ 4220483 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-230, 051-260-220

*P3a. Description:
The subject property is the Pacific Gas & Electric (PG&E) Lockeford Substation, an electrical substation consisting of a corrugated-metal powerhouse building on a level, paved lot surrounded by transformers and a manmade holding pond to the east. The pond feeds into an irrigation ditch to the south. The powerhouse building is rectangular with a concrete foundation, front-gable metal roof, and replacement metal doors on its west façade and east elevation. The entrance to the building is centered on the façade and is approached by concrete steps with metal handrails. Flanking the front entrance are vertically-oriented 10-light wood-frame windows. A metal vent is centered in the gable end above the entrance. The south elevation has no windows or doors, and the north elevation is not visible from public vantage points. The east elevation has no windows but includes an entrance like that on the façade. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 8. Industrial Building
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1948 (Parcelquest.com 2022)

*P7. Owner and Address:
Pacific Gas & Electric Co
77 Beale Street
San Francisco, CA 94106

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) PG&E Lockeford Substation (Resource ID 54) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: PG&E Lockeford Substation
B2. Common Name: PG&E Lockeford Substation
B3. Original Use: Industrial
B4. Present Use: Industrial
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** 1948 - built (Parcelquest.com 2022). The PG&E Lockeford Substation is visible on a 1957 aerial photograph. At that time the substation only occupied the lot associated with 12651 East Kettleman Road. It then consisted of the extant powerhouse building and three sets of transformers north of the building. A 1967 aerial shows a similar design. By 1984, the substation had been expanded to the north and east into the 12861 East Kettleman Lane parcel. This expansion included adding transformers to the north and east of the earlier layout and adding the current pond. The property currently reflects its layout from the 1984 aerial (NETROnline 2022). The substation building has replacement doors.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Electricity distribution **Area** San Joaquin County
Period of Significance N/A **Property Type** Industrial
Applicable Criteria N/A
The property at 12651 and 12861 East Kettleman Lane has retained integrity but is not eligible for listing in the California Register of Historical Resources (CRHR) due to a lack of significance. Therefore, it is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The PG&E Lockeford Substation occupies the two tax parcels at 12651 and 12861 East Kettleman Lane east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

Regional growth necessitated the expansion of the power supply systems. PG&E, which formed in 1905 when multiple gas and electric companies in the Bay Area consolidated, emerged as an early leader in electrical systems development (Walker 2017). As such, PG&E enjoyed monopoly status during the Great Depression and entering the post-war period, which brought rapid growth to the valley communities in the region. The company projected that the area load demand would double in the decade between 1945 and 1955 (Walker 2017). To address this growing demand for energy at the midcentury, PG&E announced a $350,000,000 construction program to expand electricity and natural gas services in Northern and Central California (*Contra Costa Gazette* 1947). PG&E Brighton-Bellota 230 kV transmission line represents the first part of this construction.

PG&E Lockeford Substation

The Lockeford Substation was part of PG&E's post World War II construction program. The company put the Lockeford Substation in service in December 1948 at a cost of $770,000. Work on the Lockeford Substation coincided with the Riverbank Substation built for a lesser cost of $411,000 (*Lodi News-Sentinel* 1949).

A review of aerial photographs and maps shows the development of powerlines associated with the Lockeford Substation. PG&E Rio Oso-Lockeford 230 kV transmission line extends from PG&E Lockeford Substation to the existing alignment of PG&E Brighton-Bellota 230 kV transmission line to the east. The latter line first appeared between 1961 and 1968 on topographic quadrangles (NETROnline 2022; USGS 2022). PG&E Industrial Tap, PG&E Lockeford-Industrial, and PG&E Lodi-Industrial 60 kV power lines reaching Lodi Electric Utility Industrial Substation were erected after its construction. The remaining PG&E 60 kV distribution lines within the APl (PG&E Lockeford #1, PG&E Sutter Home Switching Station-Lockeford-Lodi, PG&E Lockeford-Lodi No. 2, and PG&E Lockeford-Lodi No. 3) are associated with PG&E Lockeford Substation and were built sometime between 1993 and 2002 based on aerials (NETROnline 2022).

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property does not have noteworthy associations. This property is associated with the regional expansion of the power grid during the post-World War II era. PG&E consists of a vast network of substations and transmission lines. This station is not reflective of its origins but represents a period of vast growth. Many other stations were built during the post-World War II period. The subject property is not emblematic of this growth, nor was it a particularly important part of this growth. Therefore, the Lockeford Substation is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for associations with the lives of persons important to history. It is associated with PG&E, not any specific individual. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not architecturally significant. The substation building is a common utilitarian building with metal sheathing. Research regarding the construction of the substation did not identify any engineering significance, or that it is emblematic, influential, innovative in the design of substations. Therefore, the property lacks architecture or engineering significance and is not eligible for listing in the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of the Lockeford Substation has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The facilities associated with this post- World War II substation were expanded in the modern-era to the north and east, essentially doubling the complex's size resulting in a loss of integrity of design.

Setting is the physical environment of a historic property. The setting of the substation has been modified by the addition of modern transformers and a pond east of the substation building during the modern era.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The station building has replacement doors but is otherwise intact. The original transformers likely have in-kind replacement equipment. Overall, the property appears to have retained integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Similar to what is noted under the materials discussion, this property retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has expanded, almost doubling in size resulting in a loss of integrity of feeling as a small-scale post-World War II substation.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR criteria. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Section P5. Photographs (continued)



View east showing the substation building (Jacobs 2022).



View north showing the modern-era transformer area (Jacobs 2022).

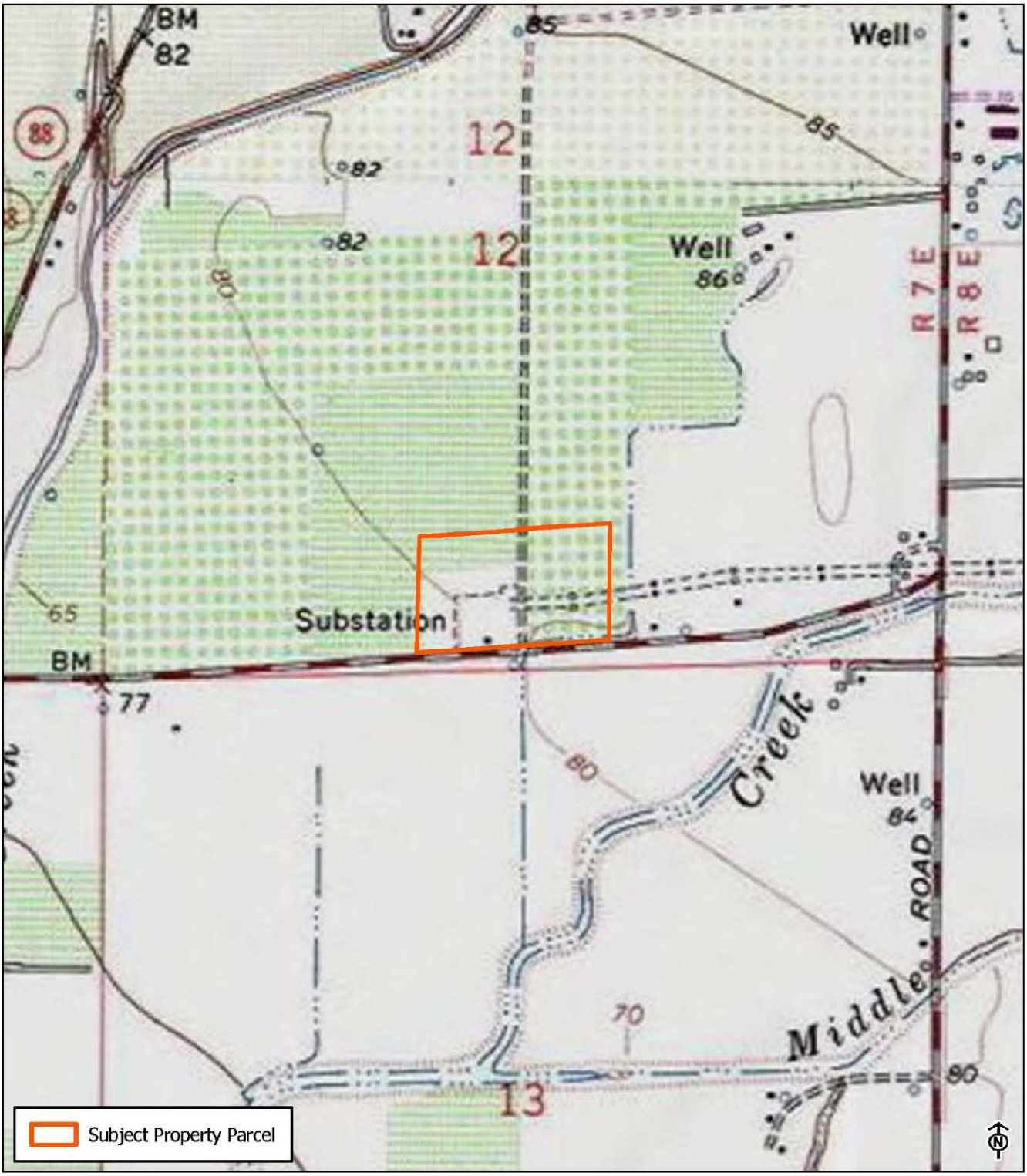
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

 *Resource Name or # PG&E Lockeford Substation (Resource ID 54)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # _____
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings _____
Review Code Reviewer Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) Paddy Creek Levee (Resource ID 55)
P1. Other Identifier: N/A

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**

***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; __ **1/4 of Sec** 7&13 ; MD **B.M.**

c. Address Lodi Zip 95240

d. UTM: (Give more than one for large and/or linear resources) Southern Terminus Zone 10S, 660620 mE/ 4218730 mN,/ and Northern Terminus Zone 10S, 662617 mE/ 4221009 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number (APN): West of APN 063-250-160, east of APN 053-040-130

***P3a. Description:**
This form records and evaluates a 2.18-mile-long segment of earthen levee on both sides of Paddy Creek within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. (Paddy Creek is not to be confused with South Paddy Creek and Middle Paddy Creek.) Levees on both sides of the creek are approximately 20 feet wide with moderately-sloped, grass-covered embankments that show some vertical cuts due to erosion. Paddy Creek is approximately 20 feet wide. A discharge structure made of cement and packed earth was also recorded on APN 630-250-320. Unpaved local access maintenance roads flank the levee segments, which are surrounded by agricultural land.

***P3b. Resource Attributes:** (List attributes and codes) HP 20. Canal/Aqueduct
***P4. Resources Present:** ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
c.1967 (NETROnline 2022)

***P7. Owner and Address:**
North San Joaquin Water Conservation District
498 East Kettleman Lane,
Lodi CA 95240

***P8. Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary # _____
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Paddy Creek Levee (Resource ID 55) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: Paddy Creek Levee
B3. Original Use: Flood control
B4. Present Use: Flood control
***B5. Architectural Style:** N/A

***B6. Construction History:** Levee constructed circa 1967 (NETROnline 2022). A review of a 1908 USGS topographic map shows that Paddy Creek followed a more meandering course than it did on the 1942 USGS map. A 1957 aerial photograph shows right-angle turns in the creek outside the API, indicating it had been channelized by that time. The creek was narrower and without the current local access roads, but still surrounded by agricultural land. Although some segments of the creek included bushes or trees along the creek bank in the 1957 aerial, the segment within the API did not. By 1967, aerial photography indicates the segment of Paddy Creek within the API reflected its existing configuration as a broad, open channel with gentle curves and local access/levee maintenance roads on either side of it (NETROnline 2022; USGS 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Flood Control **Area** San Joaquin Valley
Period of Significance N/A **Property Type** Levee
Applicable Criteria N/A
The Paddy Creek levee is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

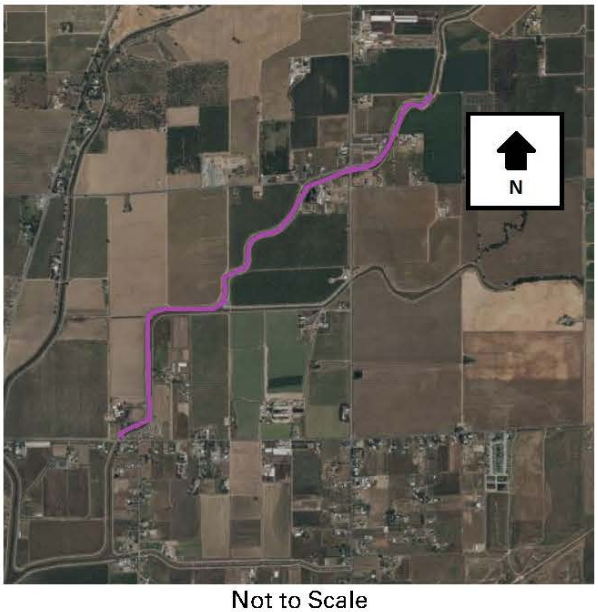
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

***B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

***Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The Paddy Creek levee segment recorded in this form is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Additional railroads and road development occurred over time and with the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

The crop diversification that occurred during the twentieth century required the construction of more irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the API environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; U.S. Geological Survey [USGS] 2022). This includes the Bear and Paddy creeks, which intersect the center of the API. A 1908 topographic quadrangle, the earliest available for the area, shows their meandering courses extending through the API immediately east of present-day SR 88. This also is reflected in subsequent quadrangles and aerials through 1961. By 1967, however, an aerial shows all three creeks had been channelized to follow their current, straighter paths. According to a 1977 report by the U.S. Army Corps of Engineers, channelization of Bear Creek in San Joaquin County was completed between 1963 and 1967 as part of a flood protection project that built 24 miles of channel improvements and 41 miles of low levees along the waterway. The project was intended to protect agricultural land, suburban areas, and transportation corridors from the devastating effects of floods (U.S. Army Corps of Engineers 1977). Paddy Creek likely was channelized during the same period for flood protection purposes.

The entire API falls within the North San Joaquin Water Conservation District (NSJWCD), which was formed in 1948 to provide groundwater management (NSJWCD 2022). It represents one of the water storage and conservation districts created in California after the late 1920s in response to the "increased demand for storage and coordination of interested on larger streams" (JRP Historical Consulting and Caltrans 2000:15). The NSJWCD currently encompasses 150,000 acres east of Lodi on both sides of the Mokelumne River and includes features such as pump stations, recharge sites, and reservoirs for water storage.

Paddy Creek Levee

Research determined the U.S. Army Corps of Engineers constructed the Paddy Creek levee between 1965 and 1967 as part of a flood protection project. Prior to this, local interests worked to control the damaging effects of floods. In January 1951, a newspaper article described "the Bear Creek Flood Control Association last night approved a fund drive for immediate relief from overflows of the turbulent stream and its tributaries" (*Stockton Evening and Sunday Record* 1951). The work included breaking up tule and willow thickets along the creeks to reduce floods. A local rancher described that he and others would hire a dragline for clearing the north and south forks of Paddy and Bear creeks (*Stockton Evening and Sunday Record* 1951).

A later newspaper article from April 28, 1965, describes plans for construction of the federally funded Paddy Creek levee. The Army Corps of Engineers opened bids on the Bear Creek Channel and levee, which included work on this segment of what was called "North Paddy Creek" from Harney Lane to Tully Road. The low bidders, who presumably built the levee, were Larry Aksland of Manteca and Fresno Paving Company, Inc. The contractor's price for the whole project, including the Bear Creek work, was $877,101 *(The Modesto Bee* 1965). Larry Aksland operated a general contracting company specializing in heavy excavating, grading and subdivisions *(Ripon Record* 1975).

A review of a 1908 USGS topographic map shows that Paddy Creek had a more natural stream form than it did on the 1942 USGS map (USGS 2022). A 1957 aerial photograph shows right-angle turns in the creek outside the API, indicating it had been channelized by that time. By 1967, aerial photography indicates the segment of Paddy Creek within the API reflected its existing configuration as a broad, open channel with gentle curves and local access/levee maintenance roads on either side of it (NETROnline 2022).

The Paddy Creek levee segment recorded in this form is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to federally-funded flood control projects in San Joaquin County during the mid-twentieth century but is not a particularly early or important example of such a project. Flood control projects are common throughout California. This property records small levees flanking a creek. Other resources that better illustrate federal flood control projects exist. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. This property is not associated with the achievements of any significant individuals and therefore is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this flood control levee is without engineering significance. Research did not indicate that it was influential or innovative in its design, construction, or materials. Construction of the Paddy Creek levee was funded by the U.S. Army Corps of Engineers and built by Larry Aksland serving as the general contractor. Research did not indicate that Aksland had distinction within his field meriting recognition under CRHR Criterion 3. It is a relatively small levee that appears to lack distinction. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The Paddy Creek levee retains its original location.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the levee has not been modified. Therefore, the property retains its integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. Therefore, the setting of the property is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. This levee retains integrity of materials, consisting of compacted earth.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The workmanship of the levee remains intact.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form in a rural setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property retains its associations with a flood control projects in San Joaquin County.

In conclusion, the Paddy Creek Levee retains integrity, yet does not meet any of the CRHR criteria. Therefore, the property is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

Modesto Bee. 1965. "Two Firms Bid Low On SJ Channel Job." April 28, 1965. Newspapers.com. Accessed January 27, 2023.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. www.parcelquest.com.

Ripon Record. 1975. "Larry Aksland General Contracting." March 19, 1975. Newspapers.com. Accessed January 17, 2023.

Stockton Evening and Sunday Record. 1951. "Drive for Flood Control Funds for Bear Creek." January 13, 1951. Newspapers.com. Accessed January 17, 2023.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html.

Section P5. Photographs (continued)



View facing north from access road west of the Paddy Creek levee (Jacobs 2022).

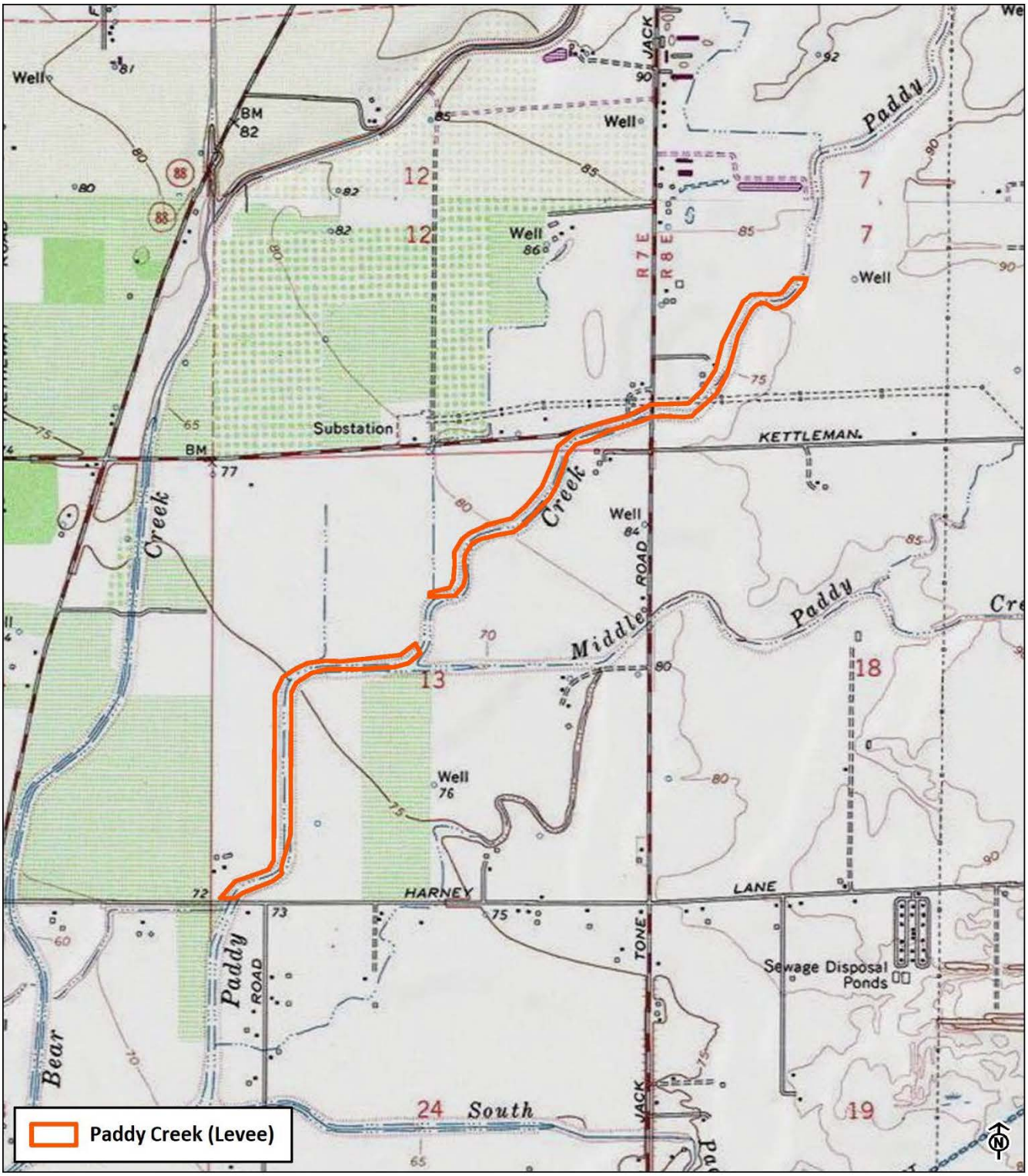
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) Paddy Creek Levee (Resource ID 55)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) 13310 East Kettleman Lane (Resource ID 56)
P1. Other Identifier: N/A
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; NE **1/4 of Sec** 13 ; MD **B.M.**
c. Address 13310 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661720 mE/ 4220116 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 063-250-320

***P3a. Description:**
This 99-acre farm property is bisected north to south by Paddy Creek. The northeast corner of the property includes a complex of residences, farm buildings, holding ponds, and corrals. West of the creek is an orchard west and east of it is a vineyard. Corrals west of Jack Toe Road include a small number of beef cattle and horses. Three modern residences are separated from East Kettleman Lane by the creek and a dirt road that provides access within the property from Jack Toe Road. The primary driveway to the property is south of the noted road and accessed from Jack Toe Road. Though not clearly visible from public vantage points, a 1957 aerial suggests the historic-era buildings on the property include two residences north (Building 1) and south (Building 2) of the west end of the driveway and two outbuildings (may be barns) west (Building 3) and southwest (Building 4) of the end of the driveway (see Continuation Sheet for map showing building numbers). The gable-roof residences have been modified with replacement windows, siding, and roofing. The two outbuildings have rectangular plans and gable roofs. The southmost outbuilding is brick with plywood walls in the gable end and the other outbuilding has a brick footing wall and clapboard siding. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 33. Farm/Ranch
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View southeast, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
Circa 1908-1967 (USGS 2022; NETROnline 2022)

***P7. Owner and Address:**
E & L Land Group
11375 Bruceville Road
Elk Grove, CA 95757

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833
***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐ NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13310 East Kettleman Lane (Resource ID 56) ***NRHP Status Code** 6Z
Page 2 **of** 8

B1. Historic Name: N/A
B2. Common Name: 13310 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** 1908-1967 – buildings constructed (USGS 2022; NETROnline.com 2022). A 1908 USGS map shows this property's driveway from Jack Tone Road west with one building (residence) north of its end (Building 1). The 1953 USGS map shows the same building with two outbuildings west (Building 3) and south (Building 4) of the end of the driveway. The earliest available aerial photograph from 1957 shows two residences north (Building 1) and south (Building 2) of the driveway end. West of the driveway end (extant) and southwest of it were two large outbuildings (Buildings 3 and 4). By 1967 aerial photography reflects property modifications due to the realignment of Paddy Creek (circa 1963-1967) and construction of the Paddy Creek levee. Aerial photography in 1984 shows three houses added at the north end of the complex just south of the creek. Larger farm buildings and sheds were added by 1993 (NETROnline 2022; USGS 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Farm/Ranch
Applicable Criteria N/A
This property is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

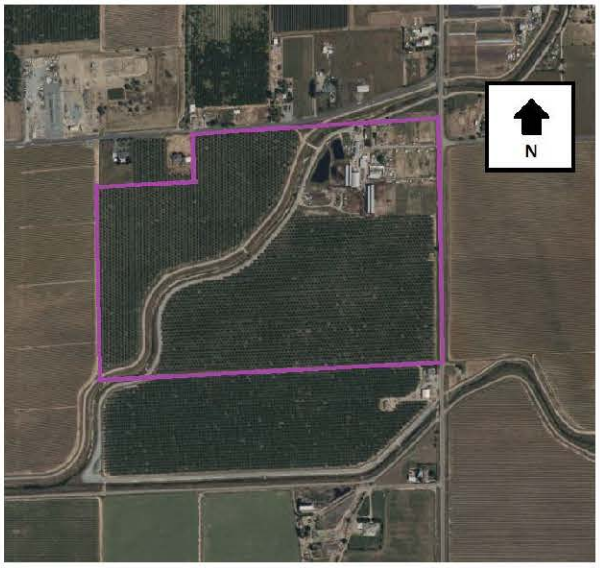
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The 99-acre property at 13310 East Kettleman Lane is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13310 East Kettleman Lane

A 1911 county atlas illustrates this property was owned by W.H. Wilson. Wilson's ownership consisted of 105 acres in the northeast corner of Section 13, Township 3 N, Range 7 E (historicmapworks.com 2023). Research identified William Henry Wilson as a native of Ireland who immigrated to the United States in 1880 and worked as a fruit farmer in California. He died in Lockeford, San Joaquin County in 1911 (Ancestry.com 2023). No additional information was obtained about Wilson's association with this property, which has an initial construction date of circa 1908 (USGS 2022).

A review of historical maps and aerial photographs indicate that this property was settled by 1908. It has been used since then for farming and residential purposes. The size of the barns suggest that the property handled a large heard of livestock, which likely grazed associated lands. Today the property is largely under cultivation with some cattle and horses. The realignment of Paddy Creek in the northeast corner of the property sometime between 1963 and 1967 resulted in the removal of one house present on a 1953 USGS map and shifting the newly-constructed Paddy Creek levee closer to the buildings south of the creek (NETROnline 2022; USGS 2022).

The property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it has lost integrity and does not convey this association. Although the two outbuildings of historic age have minimal modifications, the historic-age houses have been heavily modified, and the overall site has been reworked and new buildings added. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Though this property was once owned by William Wilson, it is undetermined if he built the earliest residence on the property. Furthermore, no information was found about his historical significance. The property is not associated with any significant achievements of any individual persons and therefore is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The property includes two houses and two outbuildings of historic age. The houses have replacement siding, windows, and roofing and the outbuildings are plain examples of their type. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. Although the two outbuildings of historic age have minimal modifications, the historic-age houses have been heavily modified, and the overall site has been reworked and new buildings added. These changes result in a loss of the integrity of design.

Setting is the physical environment of a historic property. Historical photographs show the neighboring agricultural properties in a very similar arrangement to what they are today. However, the overall use of the residential and farm building complex is heavily modified, which diminishes the integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes have resulted in a loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes result in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The addition of numerous sheds and large metal buildings during the modern period have resulted in a loss of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR criteria. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Ancestry.com. 2023. Death Certificate for James Jory. Accessed February 6, 2023. Ancestry.com.

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)





View west from Jack Tone Road showing historic-age houses north (built circa 1908) and south (built before 1957) of the driveway (Google Streetview).



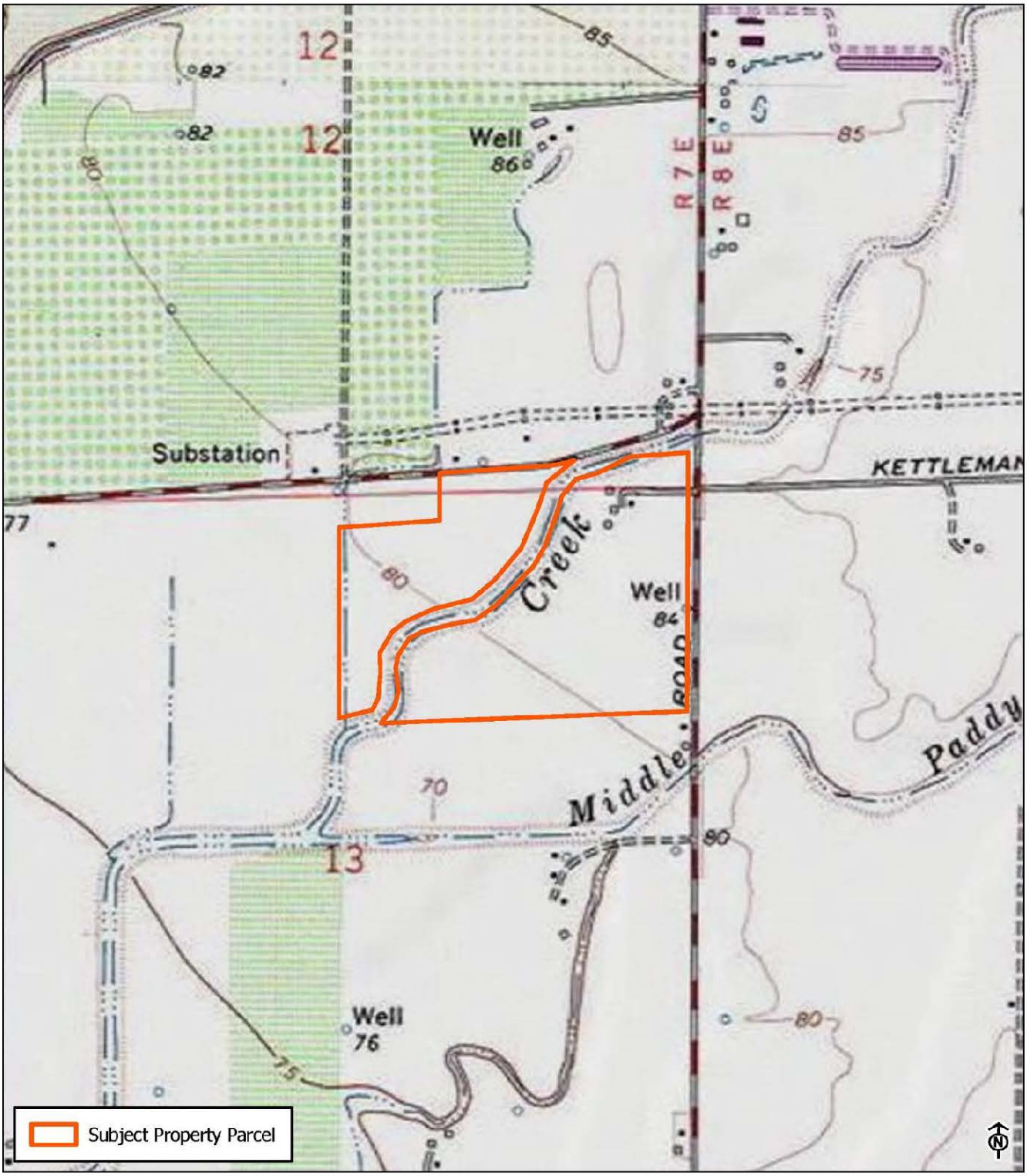
View to west showing three modern-age houses facing Paddy Creek (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 13310 East Kettleman Lane (Resource ID 56)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 12971 East Kettleman Lane (Resource ID 57)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 12; MD B.M.
c. Address 12971 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661597 mE/ 4220610 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-130
*P3a. Description:
The 19.6-acre property at 12971 East Kettleman Road consists of a heavily altered Ranch-style residence and one historic-age barn to the east of the residence. One modern-age shed (built circa 2005) is west of the residence. The residence has a cross gable roof, attached two-car garage, replacement windows, and stucco siding. The barn is wooden with a monitor roof and sliding door. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐Object ☐Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1958 (Parcelquest.com 2023)

*P7. Owner and Address:
Jaskaran & Kaur Harvinder Singh
12971 East Kettleman Lane
Lod, CA 95240

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 12971 East Kettleman Lane (Resource ID 57) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 12971 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Utilitarian

***B6. Construction History:** 1958 – residence built (Parcelquest.com 2022). Aerial photographs from 1957, 1967, and 1984 provide information about development of this property. Though the county assessor provides a construction date of 1958, a 1957 aerial photograph shows a house, or possibly just a house foundation, in this location. At that time, there was no barn east of the house. By 1967, a barn is east of the house though it does not appear to be the existing barn. In 1984, the monitor roof barn had replaced the earlier barn east of the house and the metal storage building was added west of the house.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Rural residence
Applicable Criteria N/A
The property at 12971 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

This 19.6-acre property is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

12971 East Kettleman Lane

This property is visible on the 1957 aerial photography and on a 1972 USGS map (NETROnline 2002; USGS 2022). Newspapers show the property was listed for sale in 1968 as follows: "10 acres, 15-hp. Pump, piped for irrigation, barn, corral, loading chute. $18,500" (*Stockton Evening and Sunday Record* 1968). The owner of the house when it was constructed was not determined through research.

This is a plain example of the Ranch Style, which was commonly designed between 1930-1975 (City of Los Angeles 2015; McAlester and McAlester 2022). A Los Angeles context statement for Ranch-style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers" (City of Los Angeles 2015). According to *A Field Guide to American Houses*, the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade (McAlester and McAlester 2022)." This house has an attached garage and asymmetrical composition but has been modified extensively through replacement windows, doors, and roofing.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is a late example of a residential farm property and has lost integrity due to replacement windows, doors, and roofing. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. The owner of the property when it was constructed had not been determined and the owner was not listed in the 1968 advertisement selling the property. The property is not associated with any significant achievements of any individual persons and therefore is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this Ranch-style house is a common expression of the style that has been modified with replacement windows, doors, and roofing. Many other examples of Ranch residences exist in Lodi and San Joaquin County, including those with more integirty and character-defining features of the style. This property lacks distinction and therefore is not eligible for the CRHR under Criterion 3.

CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. Therefore, its integrity of location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the property has been modified with replacement windows, doors, and roofing, resulting in a loss of design.

Setting is the physical environment of a historic property. Aerial photographs from 1967 show the agricultural fields surrounding the residence and that the property did not have its current privacy fence. These changes have diminished the integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted design changes have resulted in a loss of integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted design changes have resulted in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The addition of the privacy fence, a modern-age metal building west of the house, and modifications to the building materials have diminished the integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

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Find A Grave. 2023. Friedrich J Mettler. Accessed February 1, 2023. Friedrich J Mettler (1864-1943) - Find a Grave Memorial. Accessed February 1, 2023.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

McAlester, Virginia and Lee McAlester. 1984. *A Field Guide to American Houses*. New York: Alfred A, Knopf, Inc.

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Stockton Daily Evening Record. 1968. February 24. Accessed February 8, 2023. Newspapers.com

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Section P5. Photographs (continued)



View to northwest showing modern-age metal building west of the Ranch-style house (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 12971 East Kettleman Lane (Resource ID 57)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 13137 East Kettleman Lane (Resource ID 58)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 12; MD B.M.
c. Address 13137 East Kettleman Lane, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661746 mE/ 4220524 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-110
*P3a. Description:
This 4.8-acre property includes a Ranch-style residence with a hipped roof, replacement windows, and stucco siding that is obscured from the public vantage point by fencing and tree coverage. There are two sheds at the rear of the property that are not visible from the public vantage point but aerials indicate they are simple metal structures. The eastern portion of the 4.8-acre parcel is a vineyard and the western portion of the parcel includes the house fronting on East Kettleman Lane, a broad gravel driveway, level green lawn areas southwest and east of the house. Behind the house is a cleared area and three large metal lattice transmission towers. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Property
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View northwest, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1948 (Parcelquest.com 2023)

*P7. Owner and Address:
Scott & Melissa Pierovich
13137 East Kettleman Lane
Lod, CA 95240

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13137 East Kettleman Lane (Resource ID 58) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 13137 East Kettleman Lane
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** 1948 – residence built (Parcelquest.com 2022). A 1957 aerial shows this Ranch-style house with a narrow gravel driveway leading to it from East Kettleman Lane. The area immediately surrounding the house had numerous small trees and beyond them was level agricultural land to the north and east of the house. Two electrical transmission towers were located northwest of the house. Sometime between 1967 and 1984 a third tower was added based on aerials. Aerials also show that sometime between 1984 and 1993, the transmission tower area became was more distinctly cleared as it is today. In the last decade, the large gravel parking area was created east of the driveway and the modern metal building in the far northwest corner was added to the property (NETROnline 2022). Windows on the house are replacements.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** **Area** San Joaquin County
Period of Significance N/A **Property Type** **Rural Residence**
Applicable Criteria
The property at 13137 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

This 4.8-acre property 13137 East Kettleman Lane in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13137 East Kettleman Lane

A 1911 map shows this property was part of a 20-acre parcel owned by A. L. Schoomaker, It is undetermined if Shoomaker or his descendants built this house, which county tax assessor records list as constructed in 1948 (historicmapworks.com 2023; parcelquest.com 2022). Pacific Gas & Electric Company's (PG&E's) Lockeford Substation is located two tax parcels west of this property. The Lockeford Substation was part of PG&E's post World War II construction program which expanded service in the region. The company put the Lockeford Substation in service in December 1948, the same year this house was built. Thus, when the Ranch-style residence at this property was built, there were two transmission towers behind the house. A third one was added between 1967 and 1984 (NETROnline 2022).

This is a plain example of the Ranch Style, which was commonly built between 1930 and 1975 (McAlester and McAlester 2022). A Los Angeles context statement for Ranch Style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers (City of Los Angeles 2015)." According to *A Field Guide to American Houses*, the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester and McAlester 2022).

This property is previously unrecorded and unevaluated. The house has been modified with replacement windows. The property also has been altered through changes to fencing and circulation systems. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry and electric power industry; however, it has lost integrity and does not convey significance for these association. The property is not eligible for the CRHR under Criterion 1, nor is it considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. This property is not eligible for the CRHR under Criterion 2, nor is it considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The property includes a Ranch Style house that is a unremarkable example of the style with replacement windows and setting changes. Therefore, this property is not eligible for the CRHR under Criterion 3 and is not considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. This Ranch-style house has undergone modifications to its windows, fencing, and circulation systems, altering the original design of the property. These changes result in a loss of the integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural, and thus it retains integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The house has replacement windows. The varied fencing materials are modern-age. These changes have diminished integirty of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Replacement of the original windows has diminished the property's integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has undergone numerous changes in the modern-era including the addition of a large gravel parking area east of the driveway, the addition of new circulation routes throughout the residential and transmission line areas, and the clearing of land under the three transmission lines. These changes diminish the property's integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

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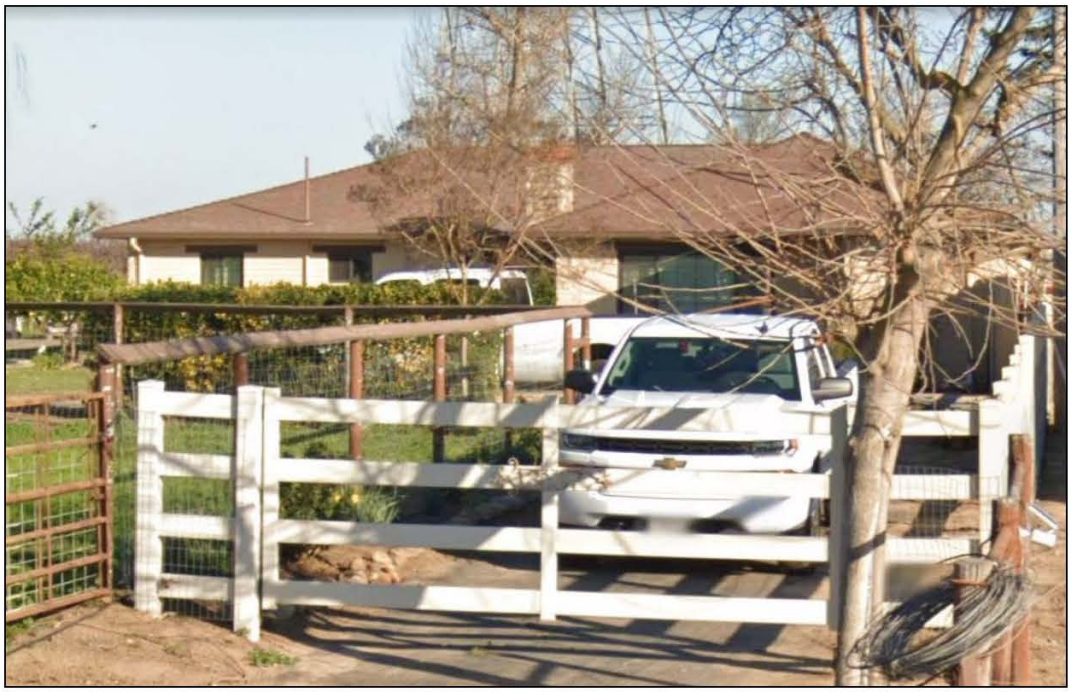
Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

P5. Photographs (continued)



View to north showing house with replacement windows and fencing modifications (Google Streetview).

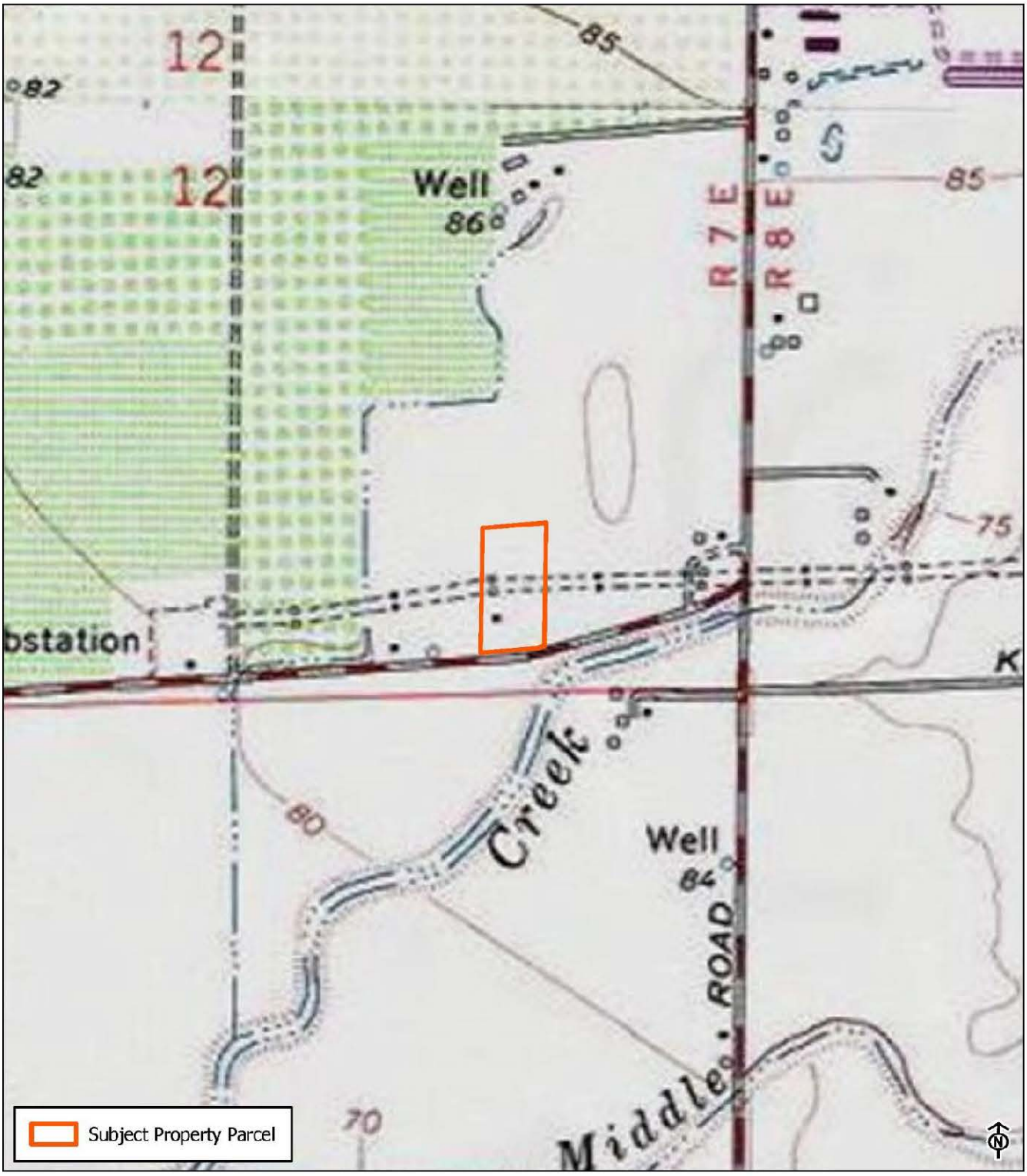
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 13137 East Kettleman Lane (Resource ID 58)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 **of** 9 ***Resource Name or #:** (Assigned by recorder) 15703 North Jack Tone Road (Resource ID 59)
P1. Other Identifier: Baker Brothers Ranch
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; SE **1/4 of Sec** 12 ; MD **B.M.**
c. Address 15703 North Jack Tone Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661880 mE/ 4221046 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-060

***P3a. Description:**
This 39.1-acre farm property includes two residences: a pre-1943 Tudor-style cottage and a pre-1954 Ranch-style house. Additional historic-era buildings are on the parcel and include four farm buildings, a swimming pool, and associated bathhouse/bar. After 2000, a large metal building was added to the northwest portion of the complex and a barbeque shed built north of the cottage (NETROnline.com 2022). The one and one-half story north-facing cottage has clapboard and brick siding. It has a side-gable roof with a front gable porch that is flared on its east slope. Additions to the building include a red brick chimney on the east elevation and a shed addition on the south elevation. The one-story Ranch-style house has a rectangular plan, a hip roof, replacement windows, brick columns, and planter boxes that match the brick of the cottage. The outbuildings are all common examples of their types with clapboard or metal siding. An irrigation ditch from the south leads to a manmade pond south of the building complex. East of the building complex the lot consists of agricultural land. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 33. Farm/Ranch
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
Circa pre-1943 (USGS 2022)

***P7. Owner and Address:**
John D. Baker
115703 North Jack Tone Road,
Lodi, CA 95240

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022

***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15703 North Jack Tone Road (Resource ID 59) ***NRHP Status Code** 6Z
Page 2 of 9

B1. Historic Name: N/A
B2. Common Name: 15703 North Jack Tone Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Tudor Style (circa 1943 residence); Ranch Style (circa 1954 residence)

***B6. Construction History:** Circa 1943-1967 (NETROnline.com 2022; USGS 2022). This property includes two residences (dating from pre-1943 and pre-1954), four farm buildings (built pre-1957), and a swimming pool and associated bathhouse/bar (built sometime built between 1957 and 1967). After 2000, a large metal building was added to the northwest portion of the building complex. Also, a barbeque shed was added east of the pool. The irrigation ditch present today along the south portion of the property boundary was present in a 1957 aerial (NETROnline.com 2022). Aside from the addition of buildings, the layout of the property remains largely unchanged. The pre-1943 house has replacement windows, doors, siding, chimney, and an addition to south elevation. The Ranch house has replacement windows.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 15703 North Jack Tone Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

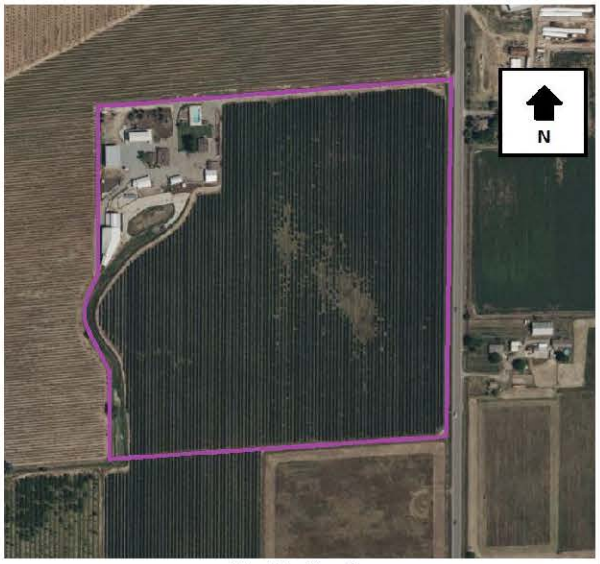
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The 39.1-acre property at 15702 North Jack Tone Road is in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15703 Jack Tone Road

A 1911 map shows this property was part of a 20-acre parcel owned by W.H. Kilgore (historicmapsworks.com 2023). Historical research did not determine if Kilgore owned this property when the houses were built in circa 1943 and circa 1954. Aerial photography from 1957 until the present shows that this property has operated as a farm with irrigated agricultural fields since that time. From Paddy Creek a ditch extends north along the west side of the agricultural fields of this property terminating at the southwest corner of the building complex.

The earliest building on this property is the one and one-half story cottage that first appears on a 1943 USGS map (USGS 2022). The house has a flared roof that is characteristic of the Tudor Style, which was common between 1890-1940.

The Ranch Style house west of the cottage first appears on USGS maps in 1954 (USGS 2022). This is a plain example of the style, which was commonly built between 1930 and 1975 (McAlester and McAlester 2022). A Los Angeles context statement for Ranch Style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers" (City of Los Angeles 2015). According to *A Field Guide to American Houses*, the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester and McAlester 2022).

The pre-1943 house has replacement windows, doors, siding, chimney, and an addition to south elevation. The Ranch house has replacement windows.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it has lost integrity and does not convey significance for its association with farming. Therefore, property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. Research did not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The property includes a pre-1943 cottage with elements of the Tudor Style and a Ranch-style house. Both residences have lost integrity and are not good examples of their respective styles. The other resources on the property lack distinction and are not good examples of their types. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location therefore remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The pre-1943 house has replacement windows, doors, siding, chimney, and an addition to south elevation. The Ranch house has replacement windows. This diminishes the integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural, and thus it retains integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The pre-1943 house has replacement windows, doors, siding, chimney, and an addition to south elevation. The Ranch house has replacement windows. These changes diminish the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes have diminished the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained is plan circulation routes, setting and buildings allowing the property retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Bennett, Nita. 2023. Real Estate Listing for 15703 North Jack Tone Road. Accessed February 9, 2023. https://www.youtube.com/watch?v=IUWlIbsdPvM

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

P5. Photographs (continued)



View south showing the front of the pre-1943 cottage (Bennett 2023).



View northwest showing the south and east elevations of the pre-1943 cottage (Bennett 2023).



View northwest showing the pool and bath house (Bennett 2023).



View east showing the back side of the pool and bath house (Bennett 2023).



View southwest showing the east façade of the Ranch-style house (Bennett 2023).



Representative example of outbuildings on property (Bennett 2023).

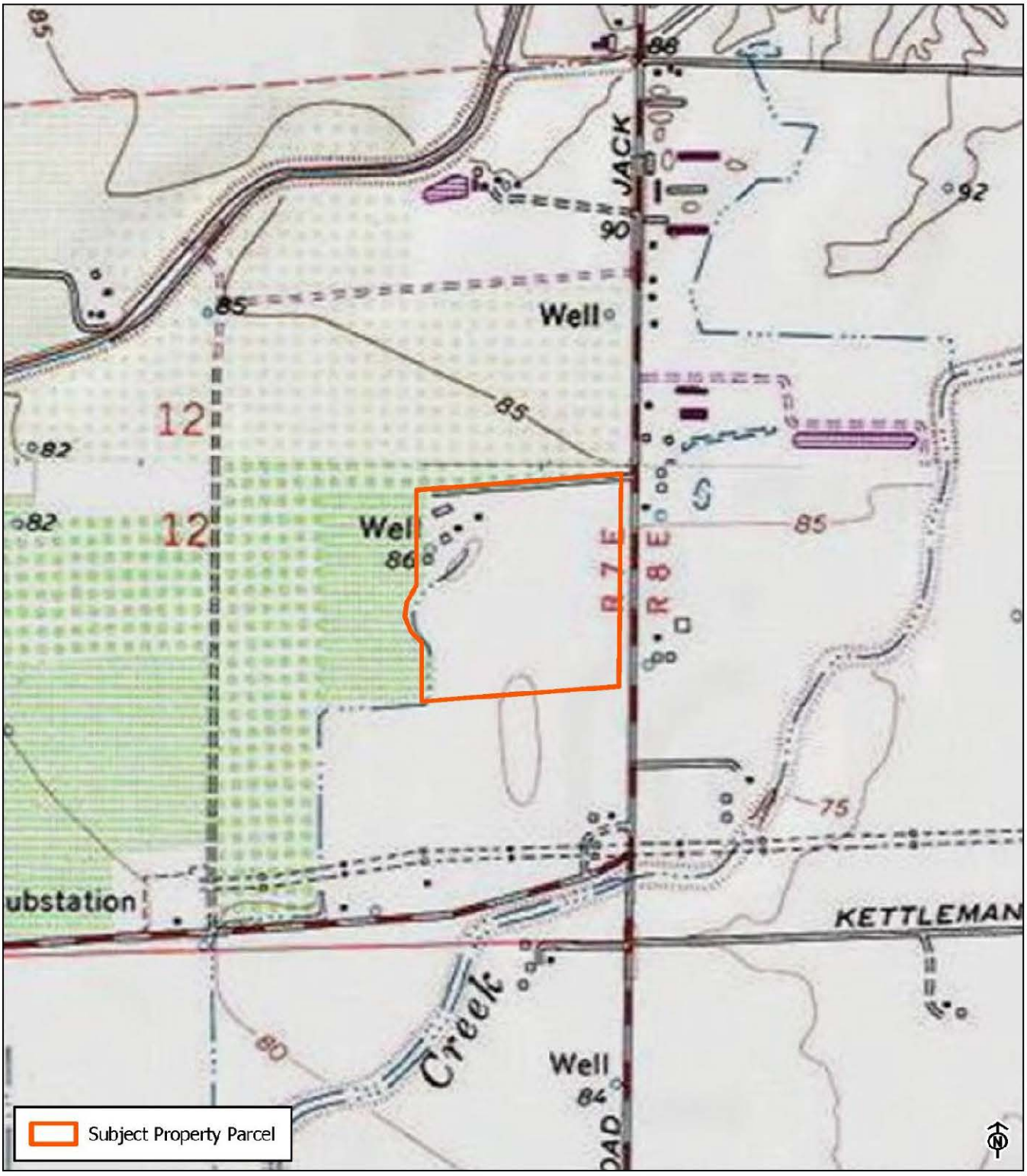
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** (Assigned by recorder) 15703 North Jack Tone Road (Resource ID 59)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 8 *Resource Name or #: (Assigned by recorder) 15289 and 15153 North Jack Tone Road (Resource ID 60)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 12; MD B.M.
c. Address 15289 & 15153 North Jack Tone Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 661986 mE/ 4220750 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 051-260-070 and 051-260-080

*P3a. Description:
This property consists of a residence (built 1949) and two outbuildings (built circa 1973). The residence and outbuilding behind the residence were heavily obscured from the public vantage point by foliage. The house has an irregular footprint with a T-shaped gable plan with flat roof sections east and west of the shaft of the T. The roof materials are varied with thick composite tiles on the gable portions, asphalt on flat sections, and raised metal-seam sheathing on a small protruding gable entrance on the east elevation. The house has a brick veneer base with stucco and T-111 walls. The windows, doors, and roofing are all replacement materials. The outbuilding north of the house, which is viewable from the public vantage point, has a front gable roof, is constructed of cinder blocks, and has one vinyl sliding window north of a solid door on the building's east façade. Shrubs encircle the building complex, providing a separation from the road and the three transmission towers on the south portion of the lot. The property is accessed through a metal gate and paved driveway from Jack Tone Road. It is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP 2. Single Family Residence
*P4. Resources Present: ☑ Building ☐ Structure ☐Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View west, December 2022
*P6. Date Constructed/Age and Source: ☑ Historic ☐Prehistoric ☐ Both
1949 (Parcelquest.com 2022)

*P7. Owner and Address:
Daniela A. & Tone Maria T. Barlow
P.O. Box 671
Lodi, CA 95241

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15289 and 15153 North Jack Tone Road (Resource ID 60) ***NRHP Status Code** 6Z
Page 2 **of** 8

B1. Historic Name: N/A
B2. Common Name: 15289 and 15153 North Jack Tone Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** This property includes one residence built 1949 and two historic-era outbuildings built circa 1973 (Parcelquest.com 2022). Aerial photographs show that in 1957 the property had only two transmission lines with a small orchard of small trees southwest of the house. In the early 1960s, Bear Creek, located south of the property, was realigned and widened, resulting in minor changes to the property boundary to the east and south. Between 1967 and 1984 a third transmission tower was added removing the orchard of trees. During the 2000s, the shrubs around the edges of the buildings were planted (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** N/A **Area** San Joaquin County
Period of Significance N/A **Property Type** Rural Residence
Applicable Criteria N/A
The property at 15289 and 15153 North Jack Tone Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

This 2.2-acre property at 15289 &and15153 North Jack Tone Road is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15289 and 15153 Jack Tone Road

A 1911 map shows this property was part of a 16-acre parcel owned by R.W. Geatey (historicmapworks.com 2023). Historical research did not find information about Geatey or determine if they owned this property when the house was built in 1949. Newspaper research did not provide any other pertinent information on the property.

Aerial photography from 1957 until the present show changes to the property. This includes the channelization of Bear Creek in the 1960s south of this property which modified road alignments east and south of the property. Between 1957 and 1967 historic photographs show PG&E only had two transmission towers south of the residence, but added another tower sometime between 1967 and 1984 (NETROnline 2022). The house exhibits replacement windows, doors, and siding.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a good example of this theme and has lost integrity due to replacement windows, doors, and siding at the house. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The residence on this property has replacement windows, doors, and siding. The other buildings on the property are of simple forms and materials that lack distinction. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the house has been modified by replacement windows, doors, and siding.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The house has been modified with replacement siding, windows, doors, and brick veneer at the base of the building. These changes have diminished the property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted modifications have resulted in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained is plan circulation routes, setting, and building locations, allowing the property retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

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U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Zillow. 2023. Listing for 15153 Jack Tone Road. Accessed February 13, 2023. https://www.zillow.com/homedetails/15153-N-Jack-Tone-Rd-Lodi-CA-95240/119404526_zpid/?

Section P5. Photographs (continued)



View southwest showing the north elevation of the residence and transmission tower (Google Streetview).



View facing south showing thick hedge on the eastern edge of the property (Jacobs 2022).



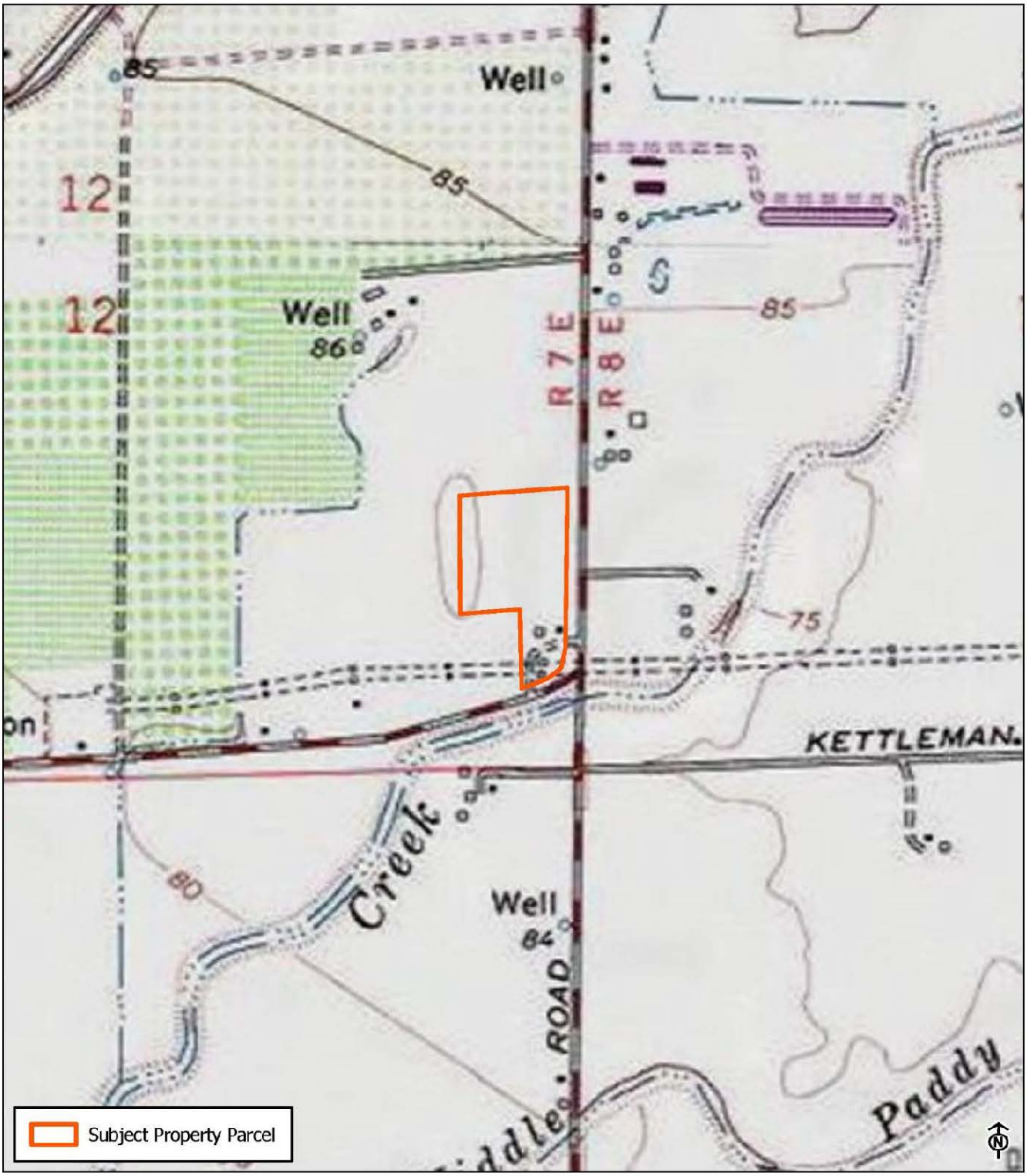
View facing north showing the south façade of residence (Zillow 2023).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

 ***Resource Name or #** 15289 and 15153 North Jack Tone Road (Resource ID 60)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) 15510 North Jack Tone Road (Resource ID 61)
P1. Other Identifier: N/A
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; SW **1/4 of Sec** 7 ; MD **B.M.**
c. Address 15510 North Jack Tone Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 662296 mE/ 4220880 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 053-040-180

***P3a. Description:**
This property includes a one-story hip-roof Minimal Traditional-style residence, a monitor-roof barn, and three sheds/outbuildings. The small square residence has T-111 siding and replacement windows and door. The slightly overhanging roof has exposed rafter ends. The monitor-roof barn is clad with wooden clapboard and a metal roof. The double doors and hayloft door in the upper story of the barn are built with diagonally oriented boards. The windows flanking the barn doors on the west elevation are not original. The sheds/outbuildings were only partially visible from public vantage points but appear to be rectangular metal buildings. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 33. Farm/Ranch
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View south, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
Circa 1942-1957 (USGS 2022;NETROnline 2022)

***P7. Owner and Address:**
William Maxwell & Lia L. McVicker
P.O. Box 997
Lodi, CA 95241

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 15510 North Jack Tone Road (Resource ID 61) ***NRHP Status Code** 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: 15510 North Jack Tone Road
B3. Original Use: Residence
B4. Present Use: Residence
***B5. Architectural Style:** Minimal Traditional

***B6. Construction History:** Constructed circa 1942-1957 (NETROnline.com 2022;USGS 2022). A USGS map shows a property at this location and aerial photographs from 1957 until the present indicate this property has retained its original organization and historic-age buildings. The Minimal Traditional-style house has modifications to its materials, including the replacement of siding, windows, door, and roof. These changes have occurred within the last approximately 30 years. The monitor-roof barn has non-original windows on its east elevation. Other wooden outbuildings visible on the property appear to have minor material changes.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Farm
Applicable Criteria N/A
The property at 15510 North Jack Tone Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The 24.8-acre property at 15510 North Jack Tone Road is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the API environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the API). The SJ&SNR passed approximately 0.26 mile north of the API and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the API is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the API, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the API. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

15510 North Jack Tone Road

A 1911 map shows this property was part of a 304-acre parcel owned by C.W. Wittemeir (historicmapworks.com 2023). Newspaper and census research did not identify information on a C. W. Wittemeir associated with this property. The property is currently owned by the trust of William (Maxwell) and Lia McVicker. Information about William Maxwell McVicker indicated he was a banker in Berkely, with no defined associations with this property (ancestry.com 2023).

This house is an example of the Minimal Traditional Style that was common between 1935 and 1950. *A Field Guide to American Houses* describes this style as follows: "Low-or intermediate-pitched roof, more often gabled; small house, generally one-story in height; roof eaves usually have little or no overhang; double-hung windows, typically multi-pane or 1/1; minimal amounts of added architectural detail; rarely has dormers" (McAlester and McAlester 2022).

This property is previously unrecorded and unevaluated. The house has modifications to its materials, including the replacement of siding, windows, door, and roof. These changes have occurred within the last approximately 30 years. The monitor-roof barn has non-original windows on its east elevation. Other wooden outbuildings visible on the property appear to have minor material changes. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is related to agricultural industry; however, it is not a good example of this historical theme due to a loss of integrity. The property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The Minimal Traditional-style house has modifications to its materials, including the replacement of siding, windows, door, and roof. These changes have occurred within the last approximately 30 years. As a result, the house is not a food example of its style. The monitor-roof barn has non-original windows on its east elevation. Other wooden outbuildings visible on the property appear to have minor material changes. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The Minimal Traditional-style house has modifications to its materials, including the replacement of siding, windows, door, and roof. These changes have occurred within the last approximately 30 years. The monitor-roof barn has non-original windows on its east elevation. Other wooden outbuildings visible on the property appear to have minor material changes. This has jeopardized the property's integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural. Therefore, the integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes have diminished the property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted modifications have resulted in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained is plan circulation routes, setting, and building locations, allowing the property retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Ancestry.com. 2023. Censuses and WWI Draft Card. Accessed February 6, 2023. Ancestry.com.

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

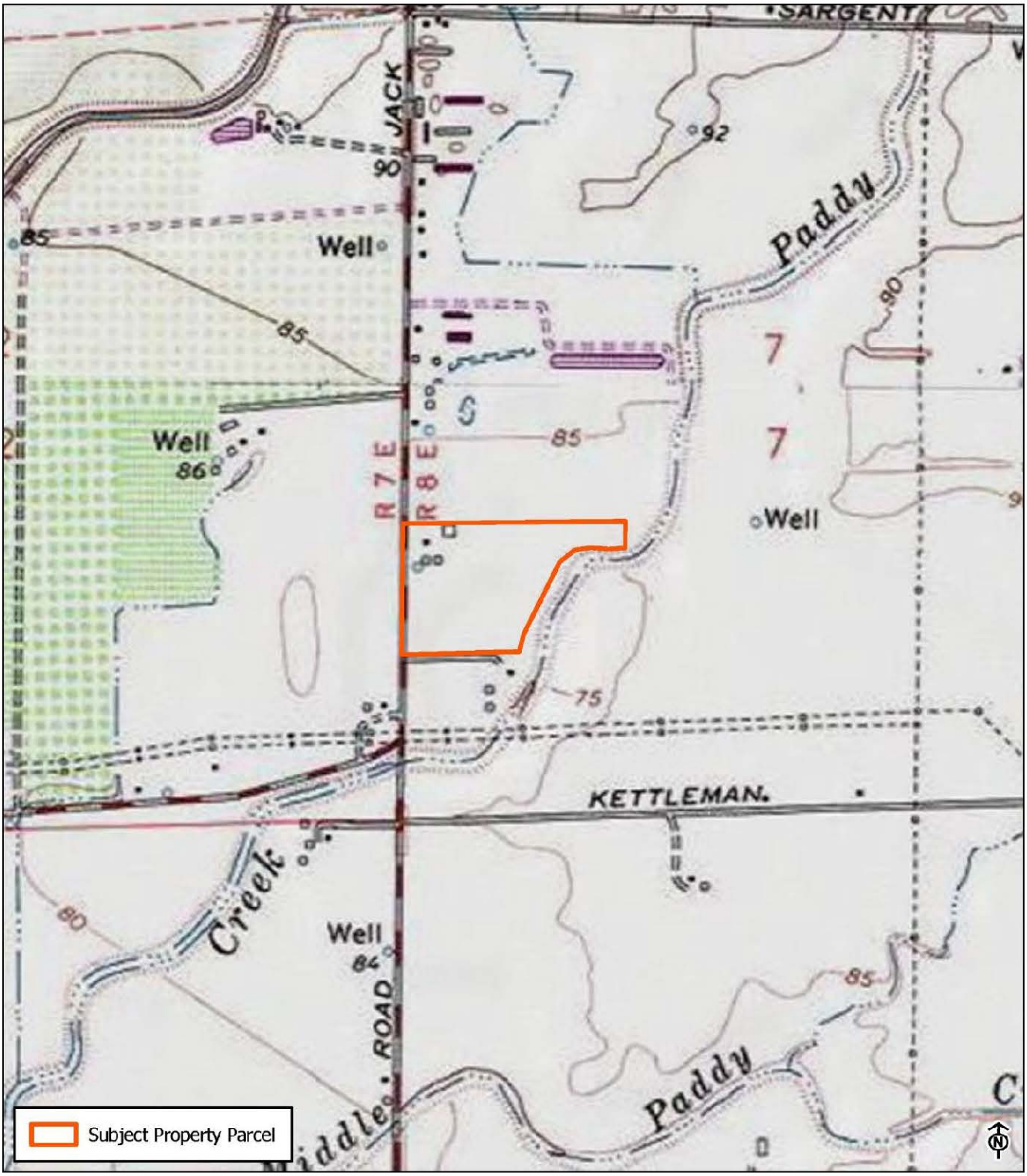
U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 15510 North Jack Tone Road (Resource ID 61)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

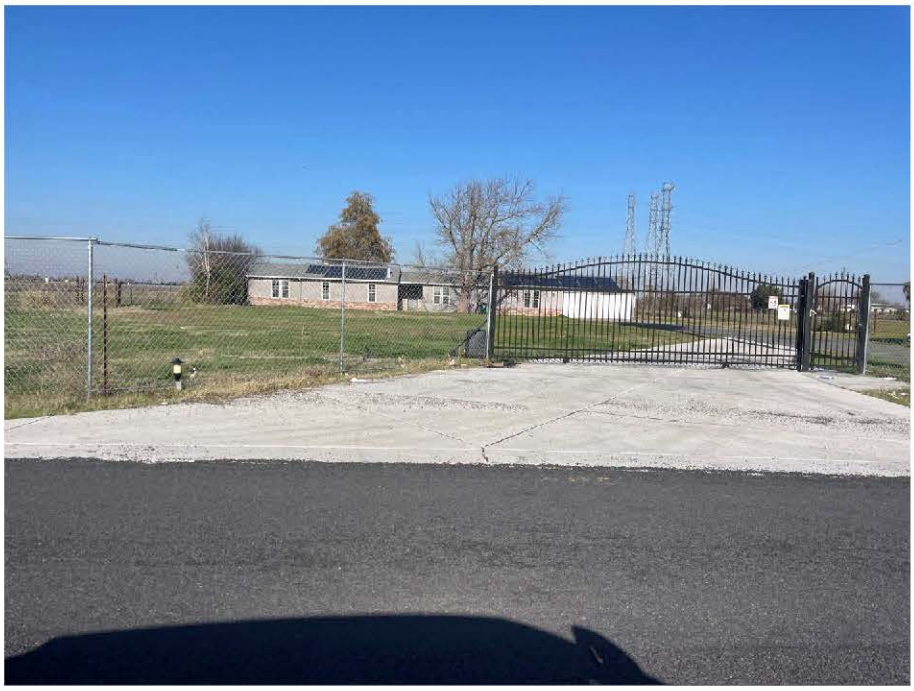
Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) 13701 East Kettleman Road (Resource ID 63)
P1. Other Identifier: N/A
*P2. **Location:** ☐ **Not for Publication** ☑ **Unrestricted**
- ***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
- ***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N ; **R** 7E ; SW **1/4 of Sec** 7 ; MD **B.M.**
- c. Address 13701 East Kettleman Road, Lodi Zip 95240
- d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 662308 mE/ 4220475 mN
- e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate) Assessor's Parcel Number: 053-040-240

***P3a. Description:**
This 5-acre property includes a Ranch-style residence and associated outbuilding. The residence is one-story with a side gable roof, what appears to be stucco siding, brick veneer at the foundation, and an attached two-car garage with replacement doors. The outbuilding appears to be a small stable for horses. The gable-roof outbuilding has plywood and T-111 siding with a gable roof and a rectangular plan. Cross-braced double sliding doors are on its west elevation. The east elevation includes a large opening covered by a metal gate. This side of the outbuilding opens onto a field. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP2. Single Family Property
***P4. Resources Present:** ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022

***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
1975 (Parcelquest.com 2022)

***P7. Owner and Address:**
Khanh Huu Do
13701 East Kettleman Road
Lodi, CA 95240

***P8.Recorded by:** (Name, affiliation, and address) M. Montomgery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022
***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13701 East Kettleman Road (Resource ID 63) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 13701 East Kettleman Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** Residence constructed 1975 (Parcelquest.com 2022). Historic aerials show this 5-acre property was originally used solely as agricultural land in from 1957 to 1967. The organization of the site has remained generally the same since the later 1994 aerial. The solar panels on the house roof have been added since 2016 (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Residential
Applicable Criteria N/A
The property at 13701 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

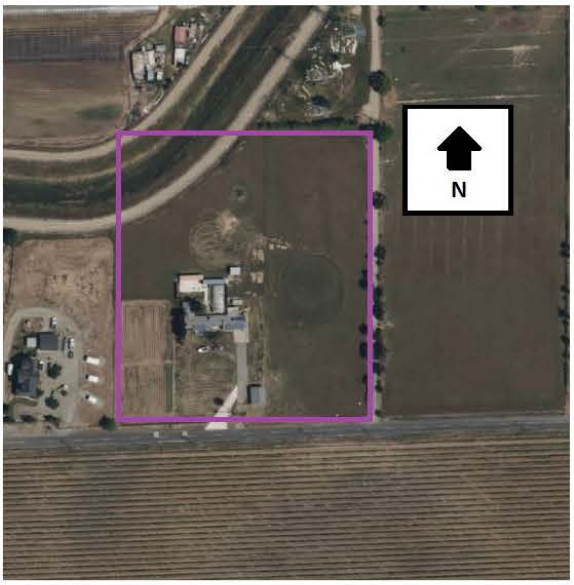
***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The 5-acre property at 13701 East Kettleman Lane is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13701 East Kettleman Lane

A 1911 map shows this property was part of a 304-acre parcel owned by C.W. Wittemeir (historicmapworks.com 2023). Newspaper and census research did not identify any information relating C. W. Wittemeir to this property (ancestry.com 2023). Historical aerials from 1957 and 1967 show this property as solely agricultural land south of Bear Creek.

Built in 1975, this rural one-story residence is a late example of the Ranch Style of architecture commonly built between 1930 and1975 (City of Los Angeles 2015; McAlester and McAlester 2022). A Los Angeles context statement for Ranch-style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers" (City of Los Angeles 2015). According to *A Field Guide to American Houses,* the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester 2022). This Ranch house has replacement windows, garage doors, and solar panels on the roof.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is rural residential and agricultural settlement in San Joaquin County; however, it is not a good example of these themes and has lost integrity. Therefore, property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, the property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The residence on this property has been extensively remodeled and is not a good example of a type, period, or method of construction. The outbuilding southeast of the house is a common property type that lacks distinction. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the house has been modified by replacement windows, doors, and solar panels on the roof. As a result, this property lacks integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural. Therefore, the setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted changes have diminished the property's integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted modifications have resulted in a loss of integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained its plan, circulation routes, and setting, allowing the property to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

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General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 10, 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

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--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

McAlester, Virginia and Lee McAlester. 2022. *A Field Guide to American Houses*. New York: Alfred A, Knopf, Inc.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



View north showing the outbuilding (at right) and house (in background) (Jacobs 2022).

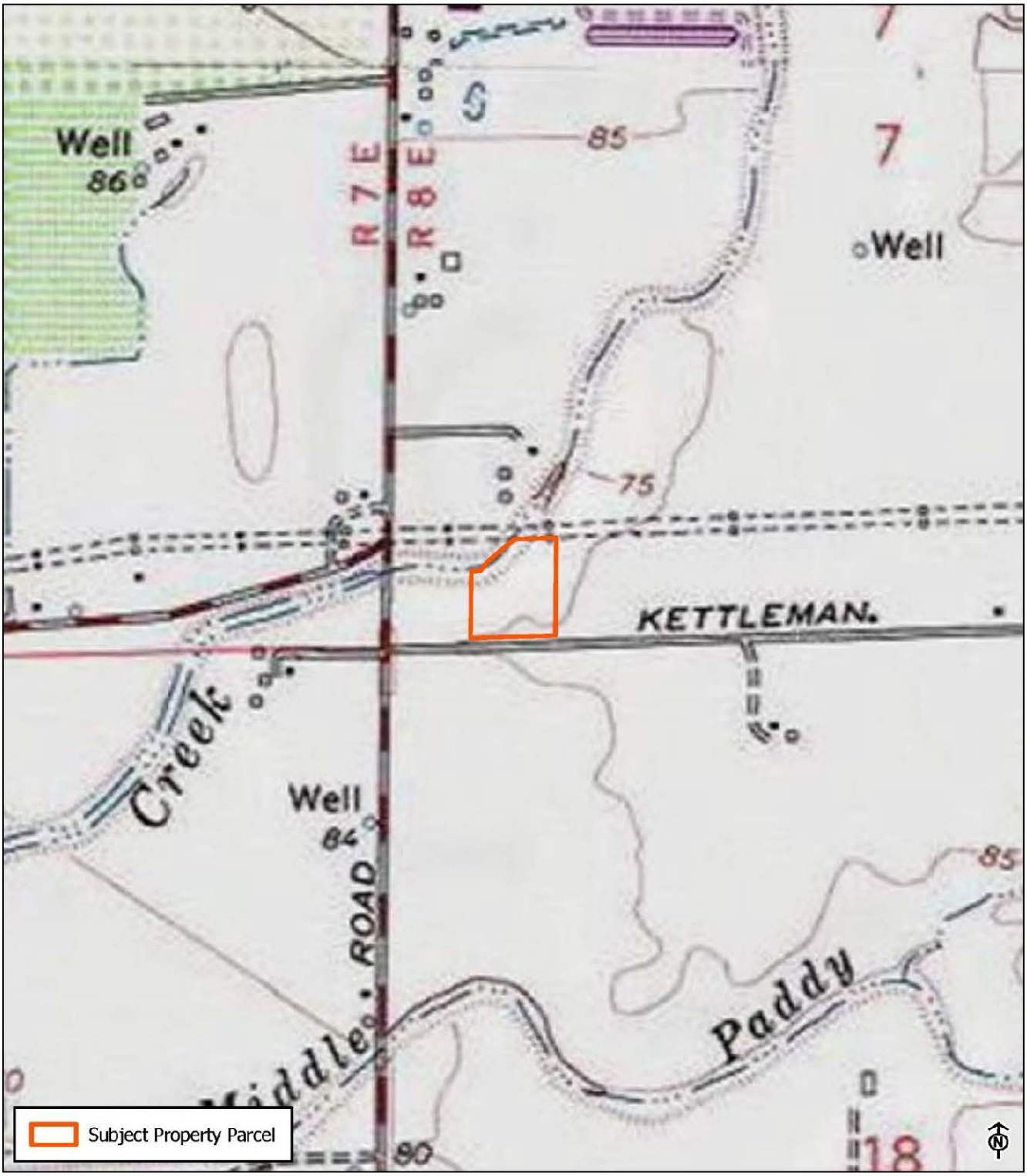
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 13701 East Kettleman Road (Resource ID 63)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 13749 East Kettleman Road (Resource ID 64)
P1. Other Identifier: Oxford Ranch
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SW 1/4 of Sec 7; MD B.M.
c. Address 13749 East Kettleman Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 662438 mE/ 4220661 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 053-040-280
*P3a. Description:
This property is located down a 900-foot private drive and is not visible from the public vantage point. Aerial photographs indicate the historic-age portion of the property, built in 1977, is limited to a residence and barn to the northwest. The residence has a rectangular footprint and side-gable roof with a shed roof porch across the south façade. Based on online photographs, the house is a vinyl-sided doublewide mobile home. An aboveground pool is located north of the house. The farm buildings east of the house are modern-age additions. Some of the buildings have attached fenced paddocks for livestock (Bing.com 2023; NETROnline 2022). The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single Family Residence, HP33. Farm/Ranch
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View overview, December 2022

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1977 (Parcelquest.com 2022)

*P7. Owner and Address:
Shannon & G. Oxford
13749 East Kettleman Road
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 13749 East Kettleman Road (Resource ID 64) ***NRHP Status Code** 6Z
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: 13749 East Kettleman Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** N/A

***B6. Construction History:** Constructed 1977 (Parcelquest.com 2022). This 8.4-acre property includes two historic-era buildings: a house and a barn. Aerials show the house and barn were built sometime between 1967 and 1984. Therefore, the 1977 construction date provided by the San Joaquin County Assessor appears accurate. Originally, the house had shade trees directly south of it. Beginning in the early 2000s, the ranch began adding buildings east and south of the house. Also around this time a porch with shed roof was added south of the house (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder:** N/A

***B10. Significance: Theme** Agriculture **Area** San Joaquin County
Period of Significance N/A **Property Type** Farm/Ranch
Applicable Criteria N/A
The property at 13749 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The 8.4-acre property at 13749 East Kettleman Lane is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

13749 East Kettleman Lane

A 1911 map shows this property was part of a 304-acre parcel owned by C.W. Wittemeir (historicmapworks.com 2023). The residence and barn were not built until 1977, however. Historical aerials from 1957 and 1967 show this property as agricultural.

This property is previously unrecorded and unevaluated. The residence is a doublewide mobile home and the barn is a utilitarian gabled/shed roof outbuilding. Aerial photographs show that many more ranch-related buildings were added east and south of the house beginning in the early 2000s. The property, today known as Oxford Ranch, currently operates as a working horse ranch. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is rural residential/agricultural settlement in San Joaquin County; however, it is not a good example of these historical themes and has lost integirty. The property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The residence on this property is a doublewide mobile home that lacks distinction, and the barn is also a common property type. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the overall property has been modified by the addition of numerous modern buildings south and east of the house.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural. Therefore, the setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The roofs of the house and barn have been replaced. Other modifications could not be assessed due to no views from public vantage points.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The roofs of the house and barn have been replaced. Other modifications could not be assessed due to no views from public vantage points.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has diminished integrity of feeling do to the addition of over 10 buildings during the modern period.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

Bing.com. 2023. Image of 13749 East Kettleman Lane. Accessed February 15, 2023. Bing.com.

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 10, 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



Photograph of residence obtained online (Bing.com 2023).

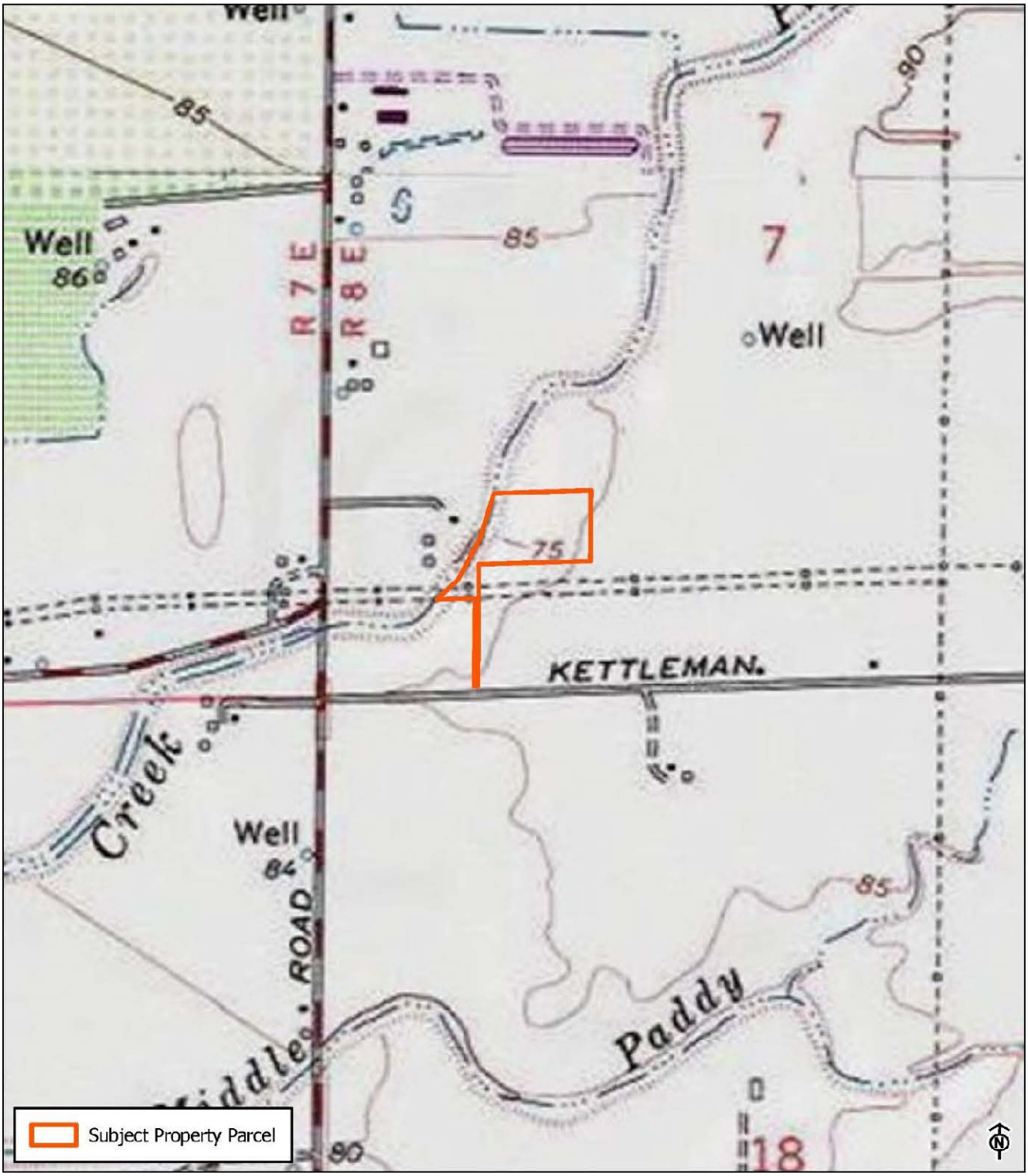
State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 13749 East Kettleman Road (Resource ID 64)

***Map Name:** Waterloo 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) 14239 East Kettleman Road (Resource ID 65)
P1. Other Identifier: N/A
***P2. Location:** ϒ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Waterloo **Date** 1972 **T** 3N; **R** 7E; SE **1/4 of Sec** 7; MD **B.M.**
c. Address 14239 East Kettleman Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 662925 mE/ 4220621 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 053-040-420

***P3a. Description:**
The 16.8-acre property consists of agricultural land with a residential and farm complex in its southwest corner. The complex includes a residence, a barn, and a loafing shed, all of which are present on a 1957 aerial. Views of the property were limited from public vantage points. The house consists of a side-gable Ranch-style residence with a shed roof porch across the west half of the south façade. The porch is supported by square wood columns. West of the replacement front door is an original four-over-one fixed window. Other windows are metal replacements. The house has stucco siding and a brick chimney on its east wall. Northeast of the main portion of the house is a front-facing gable roof section that has a flat-roof addition in front of it. The barn has a monitor roof, plywood and clapboard siding, and a hay hood. The loafing shed has board and batten siding and a shed roof. The property is accessed from a gravel driveway that extends north of East Kettleman Lane along the east side of the house to the barn. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

***P3b. Resource Attributes:** (List attributes and codes) HP 33. Ranch/Farm
***P4. Resources Present:** ☑ Building ☐ Structure ϒ Object ϒ Site ϒ District ϒ Element of District ϒ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View north, December 2022
***P6. Date Constructed/Age and Source:** ☑ Historic ϒ Prehistoric ☐ Both
Circa 1954 (USGS 2022)

***P7. Owner and Address:**
PLH LLC
222 South 9th Street
Minneapolis, MN 55402

***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022

***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ϒNONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
ϒArchaeological Record ϒDistrict Record ϒLinear Feature Record ϒMilling Station Record ϒRock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California -The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14239 East Kettleman Road (Resource ID 65) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 14239 East Kettleman Road
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Ranch

***B6. Construction History:** The county assessor does not include a date of construction for this property. A 1954 USGS quadrangle map shows a house and outbuilding at this location; therefore, a circa 1954 construction date is used in this form (USGS 2022). The earliest available aerial photograph for this location dates to 1957 and shows the residence, barn, and loafing shed present at that time. Northeast of the main side-gable portion of the house is a detached front-gable roof section. These two sections of the residence are connected by a shed roof porch. The porch does not appear original yet may be over 50 years old based on visual observation. The front-facing gable-roof section of the house appears to be the original portion. The barn and loafing shed are largely unchanged except for the plywood siding on the south elevation of the barn that would have replaced clapboard siding found on the east façade of the resource within the past circa 20 years.

The 1957 aerial shows only two electrical transmission towers in the middle of the large parcel but by 1967, another tower was added (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Ranch/Farm
Applicable Criteria N/A
The property at 14239 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property has lost integrity and does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The 16.8-acre property at 14239 East Kettleman Lane is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14239 East Kettleman Lane

A 1911 map shows this property as within a 304-acre parcel owned by C.W. Wittemeir (historicmapworks.com 2023). Newspaper and census research did not identify a C. W. Wittemeir in association with this property, which was constructed circa 1954.

This house is plain example of the Ranch Style, which was commonly built between 1930 and1975 (City of Los Angeles 2015; McAlester and McAlester 2022). A Los Angeles context statement for Ranch-style houses described this these houses are associated with the "rapid suburbanization that occurred in the postwar period, during which they were built in unprecedented numbers" (City of Los Angeles 2015). According to *A Field Guide to American Houses*, the Ranch Style is characterized by the following list of features: "broad one-story shape; usually built low to ground; low-pitched roof without dormers; commonly with moderate-to-wide roof overhang; front entry usually located off-center and sheltered under main roof of house; garage typically attached to main façade (faces front, side, or rear); a large picture window generally present; asymmetrical façade" (McAlester 2022).

This property is previously unrecorded and unevaluated. It has been altered through the addition of new windows, door, and porch to the house. The barn has plywood siding in sections replacing the original clapboard siding. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is rural residential/agricultural settlement in San Joaquin County; however, it is not a good example of these historical themes. The property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The residence on this property is a modified Ranch-style house that lacks distinction and has lost integrity due to new windows and door and an added porch. The barn and loafing shed also are common designs. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The integrity of design of this property has been diminished by the addition of new windows, door, and porch to the house. The barn has plywood siding in sections replacing the original clapboard siding.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural. Therefore, the integrity of setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted design changes have included material changes, thereby diminishing the integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted design changes have diminished the integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has retained its historic-era layout, form, and general appearance, allowing the property to retain integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, this property has lost integrity and does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

City of Lodi, California. N.d. "History of the City of Lodi." Accessed December 16, 2022. https://www.lodi.gov/602/History-of-the-City-of-Lodi.

Hall, William Hammond. 1886. Sheet No. 1, Northern Portion, Irrigation Map of the San Joaquin Valley, California. California State Engineering Department, Sacramento, California.

--. 1887. Topographical and Irrigation Map of the Great Central Valley of California. Embracing the Sacramento, San Joaquin, Tulare and Kern Valleys and the Bordering Foothills. California State Engineering Department, Sacramento, California.

Hees, Randy. N.d. "A History of the San Joaquin & Sierra Nevada Railroad. Accessed December 16, 2022. http://www.pacificng.com/template.php?page=roads/ca/sjsn/history.htm.

Historicmapworks.com. 2023. San Joaquin County. Accessed January 10, 2023. https://www.historicmapworks.com/Map/US/1579997/Page+025/.

General Land Office. 1855. Survey Plat for Township 3 North, Range 8 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

--. 1865. Survey Plat for Township 3 North, Range 7 East, Mount Diablo Meridian. San Francisco, California. U.S. Department of the Interior Bureau of Land Management.

JRP Historical Consulting Services. 2003. P-39-004470. Record on file with the Central California Information Center, California State University, Stanislaus.

McAlester, Virginia and Lee McAlester. 2022. *A Field Guide to American Houses*. New York: Alfred A, Knopf, Inc.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

Parcelquest.com. 2022. Parcels. Accessed February 1, 2023. www.parcelquest.com

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Section P5. Photographs (continued)



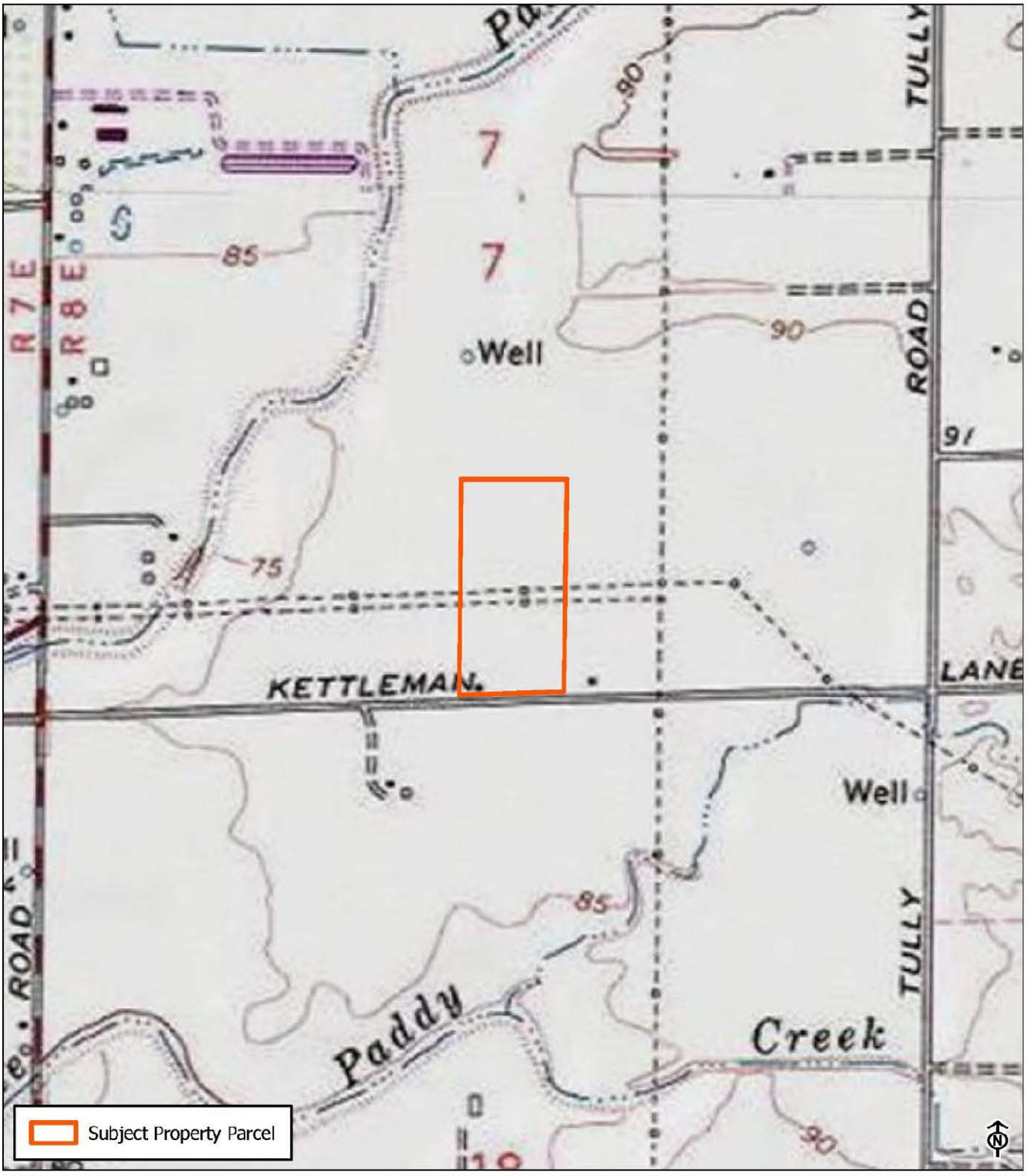
View north showing residence with replacement porch on east side of façade (Google Streetview).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) 14239 East Kettleman Road (Resource ID 65)

***Map Name:** Waterloo 1972 **Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

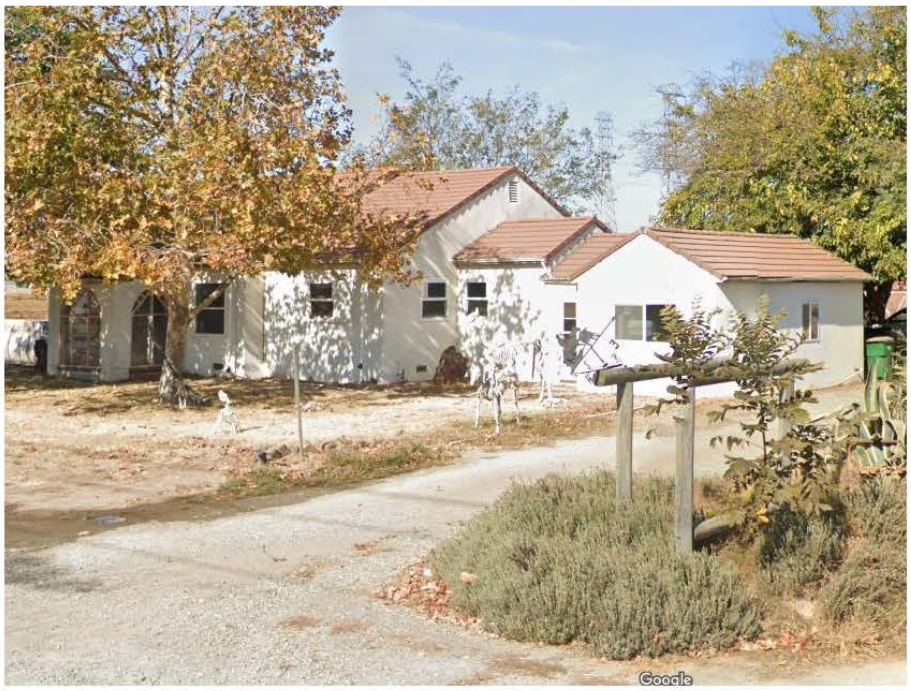
Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) 14433 East Kettleman Road (Resource ID 65)
P1. Other Identifier: N/A
*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Waterloo Date 1972 T 3N; R 7E; SE 1/4 of Sec 7; MD B.M.
c. Address 14433 East Kettleman Road, Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Zone 10S, 663107 mE/ 4220576 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 053-040-200

*P3a. Description:
This property includes a rural residence with Mediterranean-style elements and a monitor-roof barn directly behind the house. Two historic-era gable-roof rectangular-plan outbuildings are located west of the barn. A non-historic-era metal horseback riding arena and two metal outbuildings built after 1993 are east of the house and barn. The residence is one story with an irregular footprint, tile-covered side-gable roof, replacement windows, and newer stucco siding. The west end of the house has an enclosed porch with arched openings. Views of the property were limited from public vantage points. Aerial photographs show the monitor-roof barn has a rectangle plan. Most of the non-residential buildings on the parcel have attached corrals/paddocks of varying sizes with fencing using metal pipes or wooden posts with plastic mesh. The driveway leads along the east side of the house. A second driveway is further east and leads to the farm buildings behind the house. The property is in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project and is recorded and evaluated in this form.

*P3b. Resource Attributes: (List attributes and codes) HP2. Single Family Residence, HP 33. Ranch/Farm
*P4. Resources Present: ☑ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View northwest, 2019 (Google.com 2023)

*P6. Date Constructed/Age and Source: ☑ Historic ☐ Prehistoric ☐ Both
1948 (Parcelquest.com 2022)

*P7. Owner and Address:
Daniel J. & Deeann Gengler
14433 East Kettleman Street
Lodi, CA 95240

*P8.Recorded by: (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: (Describe)
Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 14433 East Kettleman Road (Resource ID 66) ***NRHP Status Code** 6Z
Page 2 of 7

B1. Historic Name: N/A
B2. Common Name: 14433 East Kettleman Road
B3. Original Use: Residence
B4. Present Use: Residence
***B5. Architectural Style:** Mediterranean Style

***B6. Construction History:** Constructed 1948 (Parcelquest.com 2022). The house has vinyl windows likely added in recent decades. A 1957 aerial photograph shows the house and monitor-roof barn. Sometime between 1984 and 1993, the rectangular shed-roof outbuilding north of the barn was added. Since 1993, aerial photography illustrates expansion to the north and east for horse-related facilities. In circa 2005 the large horseback riding arena was added east of the barn. In circa 2015 another rectangular metal outbuilding was added on the parcel (NETROnline 2022).

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Agricultural **Area** San Joaquin County
Period of Significance N/A **Property Type** Farm/Ranch
Applicable Criteria N/A
The property at 14433 East Kettleman Road is not eligible for listing in the California Register of Historical Resources (CRHR) and is not a historical resource for purposes of the California Environmental Quality Act (CEQA). The property does not meet the criteria for listing in the CRHR. The property has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

* **Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

*Required information

Section B10. Significance (continued)

Historic Context

The 9.5-acre property at 14433 East Kettleman Lane is in San Joaquin County within the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the APl from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the APl, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the APl was sparsely developed during this time. Although the APl still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the APl in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the APl and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Another railroad, the San Joaquin and Sierra Nevada Railroad (SJ&SNR), was built in the APl environs shortly after the SPRR. The segment of the line between Lodi and Woodbridge, California, opened for business in 1882, while construction of the line continued eastward towards Lockeford, California (northeast of the APl). The SJ&SNR passed approximately 0.26 mile north of the APl and had an east-west orientation that followed present-day SR 12. SPRR acquired the SJ&SNR in 1888, and it subsequently became known as the SPRR Valley Spring Branch (Hees n.d.). The segment of the former SPRR Valley Spring Branch in the vicinity of the APl is no longer extant.

The road historically in the location of present-day SR 88 was depicted as one of the major thoroughfares in the Central Valley in maps from the mid-1880s (Hall 1886, 1887). It connected Stockton, Waterloo, and Lockeford with communities in the Sierra Nevada. A map from 1894 shows additional roads within the APl, including East Harney Lane, Jack Tone Road, and East Kettleman Lane (USGS 2022). This trend of new road construction continued into the early twentieth century based on maps and aerials (NETROnline 2022; USGS 2022). The expanding road network during this time reflects the area's burgeoning agricultural industry, which increased settlement in the region. Roads as well as railroads were important movers of goods and people, and thus also aided the growth of the agricultural industry and prompted settlement along their alignments.

A third railroad reached Lodi during the early twentieth century: the Central California Traction Railroad (CCTR), which extends through the west end of the APl. The portion of the line between Stockton and Lodi was completed in 1907, and the portion between Lodi and Sacramento was completed in 1910. The CCTR line currently is owned by Union Pacific Railroad and Burlington Northern Santa Fe Railroad (JRP Historical Consulting Services 2003).

With the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the APl produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the APl environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the APl to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

14433 East Kettleman Lane

A 1911 map shows the north portion of this property (in Section 7, Township 3 North, Range 8 East) was part of a 304-acre parcel owned by C.W. Wittemeir and the southernmost portion of the property (in Section 18, Township 3 North, Range 8 East) was owned by S.W.R. Langdon property (historicmapworks.com 2023). Property owner Samuel Walter Ross Langdon (1831-1906) was originally from Stockton, California. No records other than the noted 1911 map tie C.W. Wittemeir to this property.

This property is previously unrecorded and unevaluated. The house is an example of the Mediterranean Style which was commonly built between 1918 and 1942. This style of architecture was used for a wide variety of buildings and is characterized by stucco siding, tile roofs, and horizontal massing (City of Los Angeles 2018). The house retains its original design, including arched porch openings and massing, but has replacement vinyl windows. The property is evaluated below.

Evaluation

Under CRHR Criterion 1, this property has no significant associations with important historic events that have made a significant contribution to the broad patterns of local, regional, or national history. The property is rural residential/agricultural property in San Joaquin County; however, it is not a good example of these historical themes. Therefore, the property is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, this property is not significant for any associations with the lives of persons important to history. It was not determined who owned this house when it was originally built. Research does not suggest this property is associated with any significant achievements of any individual persons. Therefore, this property is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, this property is not a good example type, style, or method of construction. The residence on this property is a modest Mediterranean Style house that has replacement vinyl windows, and the barn and historic-era outbuildings are also common property types. Therefore, this property is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, this property is not significant as a source (or likely source) of important information regarding history. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The location of this property has remained the same throughout its history. The integrity of the property's location remains intact.

Design is the combination of elements that create the form, plan, space, and style of a property. The design of the overall property has been modified by the addition of numerous modern-age buildings east of the house and barn. The property therefore has diminished integrity of design.

Setting is the physical environment of a historic property. Aerial photographs show the property's setting has remained agricultural. Therefore, the setting is intact.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The house has been modified with vinyl windows. Changes to the barn are not visible from public vantage points. Replacement windows have slightly diminished the integrity of materials for this property.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The integrity of workmanship has been slightly diminished by the addition of replacement windows to the house.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. The property has diminished integrity of feeling due to the addition of modern-age resources on the parcel.

Association is the direct link between an important historic event or person and a historic property. This property has no specific associations with historic events or individuals.

In conclusion, although this property has some integrity, it does not meet any of the CRHR. Therefore, it is not a historical resource for the purposes of CEQA.

Section B12. References (continued)

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Section P5. Photographs (continued)



View northeast showing the west elevation of house, barn, and two outbuildings in 2019 (Google Streetview).



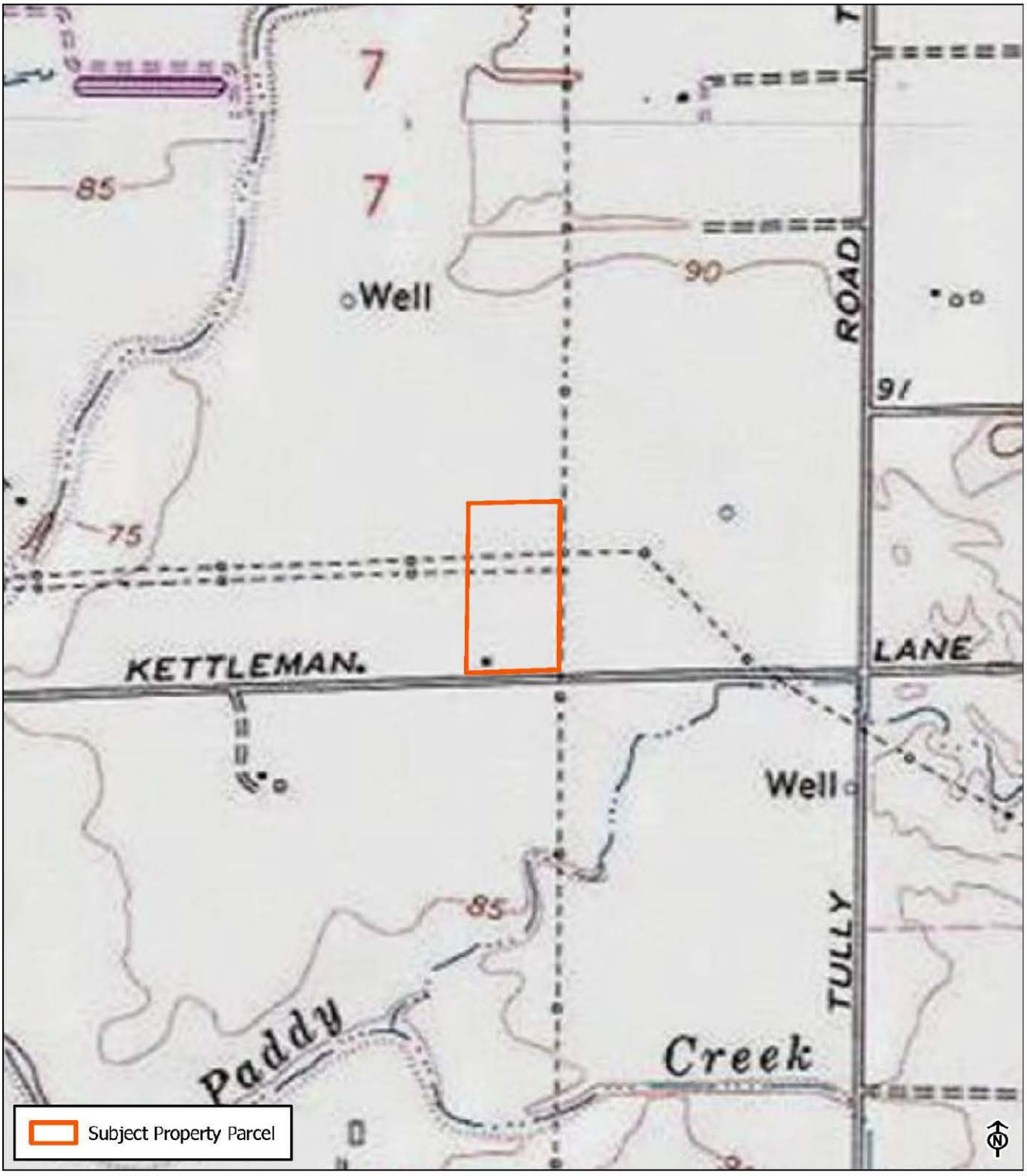
View northwest showing the post-1993 metal buildings east of the historic-era house and barn in 2019 (Google Streetview).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

*Resource Name or # (Assigned by recorder) 14433 East Kettleman Road (Resource ID 66)

*Map Name: Waterloo 1972 *Scale: 1:24,000 (Not to scale) *Date of map: 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 3CS

Other Listings
Review Code Reviewer Date

Page 1 of 7 *Resource Name or #: (Assigned by recorder) Mokelumne Aqueduct (Resource ID 67)
P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☑ Unrestricted
*a. County San Joaquin and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Linden Date 1972 T 3N; R 8E; __ 1/4 of Sec 10; MD B.M.
c. Address N/A City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources)
Eastern Terminus Zone 10S, 667254 mE/ 4220672 mN / Western Terminus Zone 10S, 668435 mE/ 4221553 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: 053-160-090

*P3a. Description:
This form records a 0.95-mile-long segment of the Mokelumne Aqueduct extending northeast-southwest to the east of the City of Lodi through the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. The segment is buried under a gravel road and therefore is not visible. It forms part of the larger Mokelumne Aqueduct, a 82-mile-long water conveyance system. Water from Pardee Reservoir enters the East Bay Municipal Utility District (EBMUD) system through the 2.2-mile-long Pardee Tunnel then flows into the three-barreled Mokelumne Aqueduct. The aqueduct crosses the Central Valley and joins with the Folsom South Canal at Lodi. It then continues across to Walnut Creek, where the water is sent to one of three EBMUD filtration plants or to terminal reservoirs (Austin 2022).

*P3b. Resource Attributes: (List attributes and codes) HP 20. Canal/Aqueduct
*P4. Resources Present: ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View northwest, December 2022
*P6. Date Constructed/Age and Source:
☑ Historic ☐ Prehistoric
☐ Both
c. 1929-1963 (Austin 2022)
*P7. Owner and Address:
North San Joaquin Water Conservation District
498 East Kettleman Lane
Lodi, CA 95240

*P8. Recorded by: (Name, affiliation, and address)
M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

*P9. Date Recorded: December 2022
*P10. Survey Type: Reconnaissance

*P11. Report Citation: Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

*Attachments: ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Mokelumne Aqueduct (Resource ID 67) ***NRHP Status Code** 3S
Page 2 **of** 7

B1. Historic Name: N/A
B2. Common Name: Mokelumne Aqueduct
B3. Original Use: Water conveyance
B4. Present Use: Water conveyance
***B5. Architectural Style:** None

***B6. Construction History:** The Mokelumne River reached the East Bay area via the Mokelumne Aqueduct for the first time in 1929 (Austin 2022). The system's original design included room within the 100 foot right of way for two additional lines. Population growth after World War II led to the construction of a second pipeline for the aqueduct in 1949, and followed by a third in 1963. The aqueduct segment within the API first appears on a 1947 USGS map, a few years before the second pipeline went into use in 1949 (Hamman 1949; USGS 2022). The aqueduct segment currently is buried but a 1957 aerial photograph shows what may be an above-ground portion northeast of the aqueduct's intersection with East Kettleman Lane. The aqueduct right of way is flanked by agricultural fields in aerials from 1957 to present (NETROnline 2022).

***B7. Moved?** ☑No ☐ Yes ☐ Unknown **Date:** _____ **Original Location:**_____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Water Conveyance **Area** San Joaquin Valley
Period of Significance 1929-1963 **Property Type** Aqueduct
Applicable Criteria A
This property was evaluated in accordance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. The aqueduct appears eligible for listing in the California Register of Historical Resources (CRHR) under Criterion 1 for its association with the development of communities in the East Bay area, including Oakland, and because it reflects the adoption of inter-basin water transfer in California. It therefore is considered a historical resource for purposes of the CEQA. Refer to the continuation sheet for a full evaluation.

B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

* **B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The Mokelumne Aqueduct is east of the City of Lodi in San Joaquin County in the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the API environs remained sparsely populated during this time. Lodi later was established on the west end of the API in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the API environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

Maps of the API from 1856 and 1857 depict two parallel roads extending in a northeast-southwest orientation through the western half of the API, the easternmost of which roughly follows the alignment of present-day SR 88 (General Land Office 1855, 1865). The remainder of the API was sparsely developed during this time. Although the API still retains its rural character, arrival of the SPRR led to the establishment of a new railroad town at Lodi at the west end of the API in 1869 (City of Lodi California n.d.). The SPRR mainline extended in a north-south orientation through Lodi approximately 0.82 mile west of the API and passed through the nearby towns of Elk Grove, Galt, Stockton, Lathrop, and Altamont Pass, California. The SPRR currently forms part of the UPRR alignment.

Additional railroads and road development occurred over time and with the establishment of transportation networks, the agricultural industry grew. In the 1890s, a local history described that "The land in the vicinity [of Lodi] is sandy and excellent for almost all kinds of crops. Watermelons have been a great specialty here for many years" (No author 1890). However, dry grains principally were farmed in San Joaquin County during the 1800s. In the Lodi area, alfalfa was identified as "King of Crops" (Martin 1904:22). Therefore, it is likely that nineteenth-century farmers in the API produced dry grains such as alfalfa, which required little in the way of irrigation (Caltrans 2007). During the early twentieth century, farmers in San Joaquin County increasingly began to diversify their crops, with the area surrounding Lodi becoming known for its wine grapes. Other farm goods in the area included olives, peaches, apricots, prunes, almonds, and figs, among others. Lodi thus featured six fruit packing sheds by 1906. Agricultural products grown in the API environs were shipped throughout California and the nation via the railroads that traversed the area. Orchards and vineyards continue to characterize the API to this day, reflecting the importance of the local agricultural industry (Martin 1904; No author 1890).

The API includes numerous linear water conveyance systems pulling water from rivers originating in the mountains to the east. The crop diversification that occurred during the twentieth century required the construction of irrigation features. Natural waterways and canals served as lifelines providing water to farms via features such as smaller canals, laterals, and ditches (JRP Historical Consulting Services and Caltrans 2000). Historic maps and aerials show numerous wells in the API environs, as well as what appear to be small ditches diverting water from creeks to agricultural fields (NETROnline 2022; U.S. Geological Survey [USGS] 2022). The entire API falls within the North San Joaquin Water Conservation District, which was formed in 1948 to provide groundwater management (NSJWCD 2022).

The Mokelumne Aqueduct uses water from the Mokelumne River as a municipal water source for communities of the East Bay area. The aqueduct is approximately 82 miles in total and is owned and operated by the EBMUD. The first segment of the line was completed in 1929 to provide water to the rapidly growing East Bay area. Additional segments were added in 1949 and 1963 as population growth of the East Bay continued (EMBUD 2022).

Mokelumne Aqueduct

Based on the *Water Conveyance Systems in California* statewide historic context, California's growing metropolitan areas needed increased water supplies in the early twentieth century. Cities adopted the concept of inter-basin water transfer pulling water from outside the local county around this time. The context describes, "First, Los Angeles in the Owens Valley (1906-1913), followed by San Francisco at Hetch Hetchy (1913-1935) and Oakland on the Mokelumne River (1924-1928), the state's major urban areas reached beyond their local and increasingly inadequate watershed to secure ample supplies of high-quality water for municipal and domestic uses" (JRP Historical Consulting 2000).

The EBMUD was established in 1923 and acquired rights to the Mokelumne River the following year. Bonds were issued to secure funding for the construction of a water system delivering water from Highland Peak in the Sierra Nevada to the Sacramento-San Joaquin Delta. The original aqueduct was built in 1929, within a 100 foot right of way that provided for the eventual expansion of the system to include two more pipelines. Post-World War II population growth spurred the addition of a second pipeline in 1949, which increased the system's capacity from 42 million gallons per day to 105 million gallons. By 1963, further growth of the region resulted in the addition of the third pipeline. Today, the system provides 1.4 million people and 35 municipalities with water (Hamman 1949 and Austin 2022).

The Pardee Dam and Reservoir (38 miles northeast of Stockton) impounds water from the Mokelumne River. The 345-foot-high concrete gravity arch dam provides a capacity of 198,000-acre feet of municipal water supply. The water from the reservoir travels "through the 2.2-mile Pardee Tunnel and then into the 82-mile three-barreled Mokelumne Aqueduct to cross the foothills and the Central Valley where at Lodi, the aqueduct joins up with the Folsom South Canal" (Austin 2022). From there, water is conveyed to Walnut Creek and is sent to an EBMUD filtration plant or reservoir (Austin 2022).

The 0.95-mile-long section of the Mokelumne Aqueduct evaluated on this form is buried and presumably includes the three pipelines dating from 1929, 1949, and 1963. A newspaper article from 1949 described the construction of the aqueduct's second pipeline, which was built of primarily steel pipe with some concrete pipe sections. Consolidated Western Steel Corporation and the United Concrete Pipe Company provided the two different pipes (Hamman 1949).

Evaluation

The Mokelumne Aqueduct has previously been evaluated for listing in the National Register of Historic Places (NRHP), though evaluations looked at the three individual pipelines separately. In Calaveras County, Mokelumne Aqueduct Pipeline No. 1 (built 1929) was determined eligible by the U.S. Army Corps of Engineers. In contrast, Mokelumne Aqueduct Pipeline No. 3 (built 1963) has previously been determined not eligible for the NRHP in Alameda, Contra Costa, and Calaveras counties by the Federal Highway and Transportation Administration (California Office of Historic Preservation 2023). Mokelumne Aqueduct Pipeline No. 2 (1949) is previously unevaluated. For the purposes of this evaluation, all three pipelines are considered part of the same resource: the Mokelumne Aqueduct.

Under CRHR Criterion 1, this property reflects California cities adopting inter-basin water transfer to supply domestic and municipal water to growing urban areas. The first pipeline comprising the Mokelumne Aqueduct was completed by EBMUD in 1929 to provide municipal water for the East Bay area in parts of Alameda and Contra Costa counties. The system was originally designed with one pipeline with right-of-way sufficient to accommodate two more pipelines, which were added in 1949 and 1963. Based on its associations with inter-basin water transfer and development of the East Bay area, the Mokelumne Aqueduct is eligible for the CRHR under Criterion 1 and is considered a historical resource for the purposes of CEQA.

Under CRHR Criterion 2, the aqueduct was built by contractors of the EBMUD over three different periods and has no associations with the significant achievements of any individual persons. Therefore, it is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, research did not uncover that aqueduct overcame a design or engineering challenge. The structure consists of a high-volume three-pipe system that was built over many decades using common methods and materials. Therefore, it is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, the aqueduct is not significant for its research potential. It does not appear to have any likelihood of yielding important information about historic construction materials or technologies, and therefore is not eligible for the CRHR under Criterion 4.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. This property has not been moved since it was completed between 1929 and 1963.

Design is the combination of elements that create the form, plan, space, and style of a property. The aqueduct is buried and not visible; therefore, it is assumed the property retains its integrity of design.

Setting is the physical environment of a historic property. The property remains characterized by its rural surroundings. Therefore, it retains its integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The aqueduct is buried and not visible; therefore, it is assumed the property retains its integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The aqueduct is buried and not visible; therefore, it is assumed the property retains its integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its original form in a rural setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property retains its associations as a municipal water supply for the East Bay area.

In conclusion, the buried Mokelumne Aqueduct has been assumed to retain integrity. As a water conveyance system, it has associations with the concept of inter-basin water transfer and the development of the East Bay area. Therefore, the property meets CRHR Criterion 1 and is considered a historical resource for the purposes of CEQA. The period of significance for the Mokelumne Aqueduct is 1929-1963 spanning the period when the three pipelines were installed.

B12. References (continued)

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Section P5. Photographs (continued)



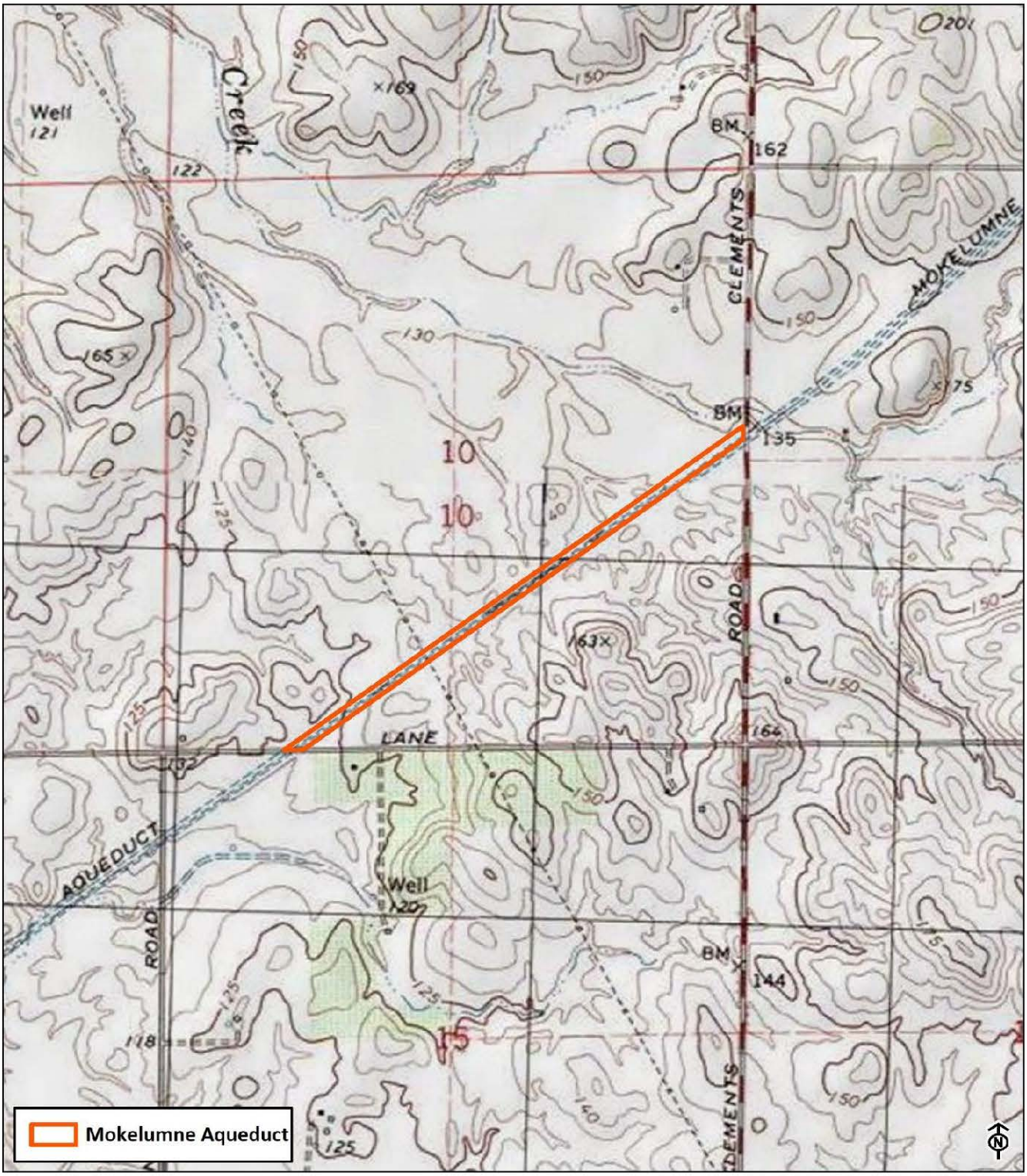
Buried aqueduct segment, view facing west directly north of East Kettleman Lane (Jacobs 2022).

State of California - Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #
HRI #
Trinomial

***Resource Name or #** (Assigned by recorder) Mokelumne Aqueduct (Resource ID 67)

***Map Name:** Linden 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



* Required information

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code Reviewer Date

Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) PG&E Brighton-Bellota 230 kV Transmission Line (Resource ID 68)
P1. Other Identifier: N/A
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Linden **Date** 1972 **T** 3N ; **R** 7E,8E; **1/4 of Sec** 7, 8, 9, 10, 12 ; MD **B.M.**
c. Address N/A, City Lodi Zip 95240
d. UTM: (Give more than one for large and/or linear resources) Eastern Terminus Zone 10S, 661743 mE/ 4220596 mN / Western Terminus Zone 10S, 668080 mE/ 4220919 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Assessor's Parcel Number: N/A

***P3a. Description:**
This form records two contiguous segments of the Pacific Gas & Electric Company's (PG&E's) Brighton-Bellota 230 kV Transmission Line within the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. This includes an approximately 1000-foot-long northwest-southeast segment built circa 1939 and a 3.9-mile-long east-west segment connecting that segment to the PG&E Lockeford Substation. The northwest-southeast segment forms part of a larger line that extends from Brighton, California, approximately 43 miles to Bellota, California. The east-west segment connecting to Lockeford Substation was added later, sometime between 1967 and 1984 (NETROnline 2022). The segments include approximately 100-foot-tall metal lattice towers with three cross arms from which insulators hang. The tower foundations consist of four legs set in above ground cylinders of concrete. At the tower where the line from Lockeford Substation intersects with the northwest-southeast segment, two shorter towers flank the main tower to help tie the power lines together.

***P3b. Resource Attributes:** (List attributes and codes) HP9. Public Utility; HP11. Engineering Structure



***P4. Resources Present:** ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) View southeast, December 2022
***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
Circa 1939 (USGS 2022)

***P7. Owner and Address:**
Pacific Gas & Electric Co
77 Beale Street
San Francisco, CA 94106
***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022

***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** PG&E Brighton-Bellota 230 kV Transmission Line (Resource ID 68) ***NRHP Status Code** 6Z

B1. Historic Name: N/A
B2. Common Name: PG&E Brighton-Bellota 230 kV Transmission Line
B3. Original Use: 230 kV electrical transmission line
B4. Present Use: 230 kV electrical transmission line
***B5. Architectural Style:** N/A

***B6. Construction History:** The northwest-southeast segment of this transmission line is first depicted on the 1939 USGS Bellota quadrangle, map where it is shown stretching between Brighton and Bellota (USGS 2022). Therefore, the construction date used in this form is circa 1939. West of the noted northwest-southeast segment of the line, the PG&E Lockeford Substation opened in 1948. The east-west segment of the existing line was built sometime between 1967 and 1984 to connect Lockeford Substation to the northwest-southeast segment of the line between Brigthon and Bellota (NETROnline 2022). Aerial photographs show the tower arrangement at the east end of the recorded segment changed between 1967 and 1984, with the construction of the east west line. An earlier tower visible in 1957 was replaced with a new tower moved slightly to the south and flanked by shorter towers (NETROnline 2022). The three towers mark where the line from the Lockeford Substation joins the older northwest-southeast segment of the Brighton-Bellota 230kV Transmission Line.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** None

B9a. Architect: N/A **b. Builder**: N/A

***B10. Significance: Theme** Electricity distribution **Area** San Joaquin County
Period of Significance N/A **Property Type** Transmission Line
Applicable Criteria N/A
The significance of the portion of the PG&E Brighton-Bellota 230 kV transmission line within the API was determined applying the procedures and criteria for the California Register of Historical Resources (CRHR) eligibility and the definition of a historical resources for purposes of the California Environmental Quality Act (CEQA). Based on site investigations and historic research, the portion of the line within the API is not eligible for listing in the CRHR either as an individual resource or as a contributor to a larger linear resource. Therefore, it is not considered a historic resource for purposes of CEQA.

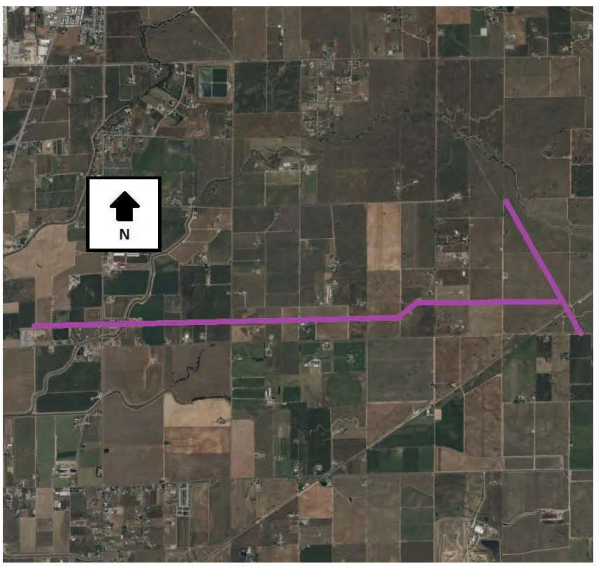
B11. Additional Resource Attributes: (List attributes and codes) N/A

***B12. References:** SEE CONTINUATION SHEET

B13. Remarks:

*** B14. Evaluator:** M. Montgomery, Jacobs Engineering Group, Inc.

*** Date of Evaluation:** January 2023



Not to Scale

(This space reserved for official comments.)

Section B10. Significance (continued)

Historic Context

The PG&E Brighton-Bellota 230 kV Transmission Line is located southeast of Sacramento extending through the San Joaquin Valley. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

During the first half of the twentieth century, California experienced immense growth, which led to development of a complex utility network. Early hydroelectric and transmissions systems supplied power to agricultural valleys and distant cities along the coast. Long distance electric power lines were developed across California in the first decades of the twentieth century as electricity demands increased (Walker 2017).

PG&E, which formed in 1905 when multiple gas and electric companies in the Bay Area consolidated, emerged as an early leader in electrical systems development. By the end of the 1920s, PG&E expanded its reach by purchasing dozens of smaller geographically focused utilities, such as San Joaquin Light and Power Company (Walker 2017). As such, PG&E enjoyed monopoly status during the Great Depression and entering the post-war period, which brought rapid growth to the valley communities in the region. The company projected that the area load demand would double in the decade between 1945 and 1955 (Walker 2017). To address this growing demand for energy at the midcentury, PG&E announced a $350,000,000 construction program to expand electricity and natural gas services in Northern and Central California (*Contra Costa Gazette* 1947).

PG&E Brighton-Bellota 230 kV Transmission Line

Review of historic aerials and maps show the development of power infrastructure within and around the APl during this period (NETROnline 2022; USGS 2022). The PG&E Brighton-Bellota 230 kV transmission line represents the first part of this construction. The northwest-southeast segment in the APl appears in a 1939 topographical quadrangle. Nearly a decade later, PG&E's Lockeford Substation (located along East Kettleman Lane to the east of SR 88) was put in service in December 1948 (No author 1949). The Lockeford Substation was part of PG&E's post World War II construction program. The company put the Lockeford Substation in service at a cost of $770,000. Work on the Lockeford Substation coincided with the Riverbank Substation built for a lesser cost of $411,000 (*Lodi News-Sentinel* 1949). Sometime between 1967 and 1984 PG&E built the east-west segment in the APl to tie the northwest-southeast oriented portions of the line into the Lockeford Substation (NETROnline 2022). The northern portion of the Brighton-Bellota 230 kV transmission line also carries PG&E's Rio Oso-Lockeford 230 kV transmission line.

This property is previously unrecorded and unevaluated. It is evaluated below.

Evaluation

Under CRHR Criterion 1, this portion of the Brighton-Bellota 230 kV Transmission Line has no significant association with the broad patterns of local, regional, or national history. The northwest-southeast segment of the line in the APl was built circa 1939. The line was updated after 1967 based on aerial photo review (NETROnline 2022). The east-west segment of the line was built sometime between 1967 and 1984 (NETROnline 2022). While the subject line relates to a period of rapid growth throughout the state, it is one of many transmission features constructed during this time. Research did not show that it was a particularly important in the history of electricity transmission in the area or the state. Therefore, it is not eligible for listing in the CRHR under Criterion 1.

Under CRHR Criterion 2, this segment of the Brighton-Bellota 230 kV Transmission Line has no significant association with the lives of persons important to local, California, or national history. The segments in the APl would not reflect a major contribution by an individual important to PG&E, nor would they represent the property most closely associated with an individual's productive life. Therefore, the portion of the transmission line in the APl is not eligible for listing in the CRHR under Criterion 2.

Under CRHR Criterion 3, this portion of the Brighton-Bellota 230 kV Transmission Line in the API does not embody the distinctive characteristics of a type, period, region, or method of construction, represent the work of a master, or possess high artistic values. The structures are utilitarian electric transmission lines with a standard design that utilized common engineering practices. Their design matches countless other transmission lines strung on lattice towers located throughout California and the West. No aspect of their design and construction reflects an innovative practice or the work of a master. Therefore, the portion of the transmission line in the API is not eligible for listing in the CRHR under Criterion 3.

Under CRHR Criterion 4, the transmission line segment has not yielded nor appears to possess the potential to yield information important to the prehistory or history of the local area, California, or the nation.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. Aerial photographs indicate that the location of the tower at the point of intersection where the northwest-southeast segment of the transmission line intersects with the east-west line from the Lockeford Substation was moved approximately 100 feet south between 1967 and 1984.

Design is the combination of elements that create the form, plan, space, and style of a property. The point of intersection mentioned above was modified between 1967 and 1984 by shifting the line south slightly and adding two shorter towers on either side of a primary tall metal lattice tower. This is a slight modification to the original layout of the towers, which has a minor affect on design.

Setting is the physical environment of a historic property. The property retains its rural surroundings; therefore, it retains its integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The noted modifications between 1967 and 1984 resulted in some replacement of materials, diminishing integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The noted changes diminished integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its general form in a rural setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no historical associations to convey.

This study recommends the portion of the PG&E Brighton-Bellota 230 kV Transmission Line within the API as not eligible for listing in the CRHR or as a historical resource for purposes of CEQA, either as an individual resource or as a contributor to a larger linear resource.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

Contra Costa Gazette. 1947. "1,000,000 New Electric Horsepower to Serve a Greater California." Accessed December 20, 2022. https://www.newspapers.com/, subscription database.

Lodi News Sentinel. "From Our Files," April 29, 1943. Accessed January 17, 2023. Newspapers.com.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Walker, Matt. 2017. *P-39-005337. Tesla-Salado-Manteca 115kV Transmission Line.* Cardno Inc. On file with the Central California Information Center, California State University, Stanislaus.

Section P5. Photographs (continued)



View northeast showing the east-west line from Lockeford Substation connecting with northwest-southeast oriented portion of line at the tower flanked by two shorter towers (Jacobs 2022).



View east of portion of the east-west line from Lockeford Substation east (Jacobs 2022).

State of California - Natural Resources Agency	Primary #
DEPARTMENT OF PARKS AND RECREATION	HRI #
LOCATION MAP	Trinomial

Page 7 **of** 7 ***Resource Name or #** PG&E Brighton-Bellota 230 kV Transmission Line (Resource ID 68)

***Map Name:** Linden 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) PG&E Rio Oso-Lockeford 230 kV Transmission Line (Resource ID 69)
P1. Other Identifier: N/A
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**

- ***a. County** San Joaquin **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
- ***b. USGS 7.5' Quad** Linden **Date** 1972 **T** 3N; **R** 7E,8E; **1/4 of Sec** 7, 8, 9, 10, 12; MD **B.M.**
- c. Address N/A, City Lodi Zip 95240
- d. UTM: (Give more than one for large and/or linear resources)
  Eastern Terminus Zone 10S, 661743 mE/ 4220596 mN / Western Terminus Zone 10S, 668080 mE/ 4220919 mN
- e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
  Assessor's Parcel Number: N/A

***P3a. Description:**
This form records and evaluates the portion of Pacific Gas & Electric Company's (PG&E's) Rio Oso-Lockeford 230 kV Transmission Line in the Area of Potential Impacts (API) for the Northern San Joaquin 230-kilovolt Transmission Project. This consists of a 500-foot-long northwest-southeast segment of the line extending north from its intersection with the 3.9-mile-long east-west segment that connects to the PG&E Lockeford Station. The segments include approximately 100-foot-tall metal lattice towers with three cross arms from which insulators hang. The tower foundations consist of four legs set in above ground cylinders of concrete. At the tower where the east-west segment from Lockeford Substation intersects with the northwest-southeast segment, line two shorter towers flank the main tower to tie the lines together.

***P3b. Resource Attributes:** (List attributes and codes) HP9. Public Utility; HP11. Engineering Structure
***P4. Resources Present:** ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo: (view, date, accession #) View east, December 2022
***P6. Date Constructed/Age and Source:** ☑ Historic ☐ Prehistoric ☐ Both
c. 1967-1984 (NETROnline 2022)

***P7. Owner and Address:**
Pacific Gas & Electric Co
77 Beale Street
San Francisco, CA 94106
***P8.Recorded by:** (Name, affiliation, and address) M. Montgomery
2485 Natomas Park Drive Suite 600
Sacramento, CA 95833

***P9. Date Recorded:** December 2022

***P10. Survey Type:** (Describe)
Reconnaissance

***P11. Report Citation:** Jacobs Engineering Group, Inc., *Northern San Joaquin 230-kilovolt Transmission Project, San Joaquin County, California Architectural Identification and Evaluation Report*, prepared for Pacific Gas & Electric Company, 2023.

***Attachments:** ☐NONE ☑Location Map ☑Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List)

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI #

BUILDING, STRUCTURE, AND OBJECT RECORD

*Resource Name or # PG&E Rio Oso-Lockeford 230 kV Transmission Line (Resource ID 69) *NRHP Status Code 6Z
Page 2 of 6

B1. Historic Name: N/A
B2. Common Name: PG&E Rio Oso-Lockeford 230 kV Transmission Line (Resource ID 69)
B3. Original Use: 230 kV electrical transmission line
B4. Present Use: 230 kV electrical transmission line
*B5. Architectural Style: N/A

*B6. Construction History: Built sometime between 1967 and 1984 based on aerials (NETROnline.com 2022). The Rio Oso-Lockeford 230 kV Transmission Line runs south from the Rio Oso Substation (south of Marysville, CA), constructed in 1954, and the Lockeford Substation (east of Lodi, CA), built in 1948. Aerial photographs indicate the east-west portion of the evaluated transmission line segment was built between 1967 and 1984. The northwest-southeast segment of the line is older, because it has a dual-purpose carrying lines for both the Lockeford-Rio Oso transmission line and the Brighton-Bellota transmission line. The northwest-southeast portion of the line was installed in c. 1939, though not used as the Rio Oso-Lockeford transmission line until later. The date for the Rio Oso-Lockeford Line has been listed as between 1967-1984 because that is when aerial photographs show the east-west line from Lockeford Substation tie in with the north-south line to the Rio Oso Substation (NETROnline 2022).

*B7. Moved? ☑No ☐Yes ☐Unknown Date: _____ Original Location: _____
*B8. Related Features: None

B9a. Architect: N/A b. Builder: N/A

*B10. Significance: Theme Electricity distribution Area San Joaquin County
Period of Significance N/A Property Type Transmission line
Applicable Criteria N/A
The significance of the segments of the PG&E Rio-Oso-Lockeford 230 kV transmission line within the API was determined applying the procedures and criteria for the California Register of Historical Resources (CRHR) eligibility and the definition of a historical resources for purposes of the California Environmental Quality Act (CEQA). Based on site investigations and historic research, the segment is not eligible for listing in the CRHR either as an individual resource or as a contributor to a larger linear resource. Therefore, it is not considered a historic resource for purposes of CEQA.

B11. Additional Resource Attributes: (List attributes and codes) N/A

*B12. References: SEE CONTINUATION SHEET

B13. Remarks:

* B14. Evaluator: M. Montgomery, Jacobs Engineering Group, Inc.

* Date of Evaluation: January 2023

(This space reserved for official comments.)



Not to Scale

Section B10. Significance (continued)

Historic Context

The PG&E Rio Oso-Lockeford 230 kV Transmission Line extends from Rio Oso, north of Sacramento, south to Lockeford Substation in San Joaquin County. San Joaquin County was formed when California achieved statehood in 1850. Cartographic review indicates the APl environs remained sparsely populated during this time. Lodi later was established on the west end of the APl in 1869 along the newly constructed Southern Pacific Railroad (SPRR). The ease of transportation afforded by the SPRR and subsequent railroads coupled with an expanding road network contributed to the APl environs' burgeoning agricultural industry during the second half of the nineteenth century. The area also benefited from its proximity to Stockton, a major trade center in the region.

During the first half of the twentieth century, California experienced immense growth, which led to development of a complex utility network. Early hydroelectric and transmissions systems supplied power to agricultural valleys and distant cities along the coast. Long distance electric power lines were developed across California in the first decades of the twentieth century as electricity demands increased (Walker 2017).

PG&E, which formed in 1905 when multiple gas and electric companies in the Bay Area consolidated, emerged as an early leader in electrical systems development. By the end of the 1920s, PG&E expanded its reach by purchasing dozens of smaller geographically focused utilities, such as San Joaquin Light and Power Company (Walker 2017). As such, PG&E enjoyed monopoly status during the Great Depression and entering the post-war period, which brought rapid growth to the valley communities in the region. The company projected that the area load demand would double in the decade between 1945 and 1955 (Walker 2017). To address this growing demand for energy at the midcentury, PG&E announced a $350,000,000 construction program to expand electricity and natural gas services in Northern and Central California (*Contra Costa Gazette* 1947).

PG&E Rio Oso-Lockeford 230 kV Transmission Line

Review of historic aerials and maps show the development of power infrastructure within and around the APl (NETROnline 2022; USGS 2022). The PG&E Brighton-Bellota 230 kV transmission line, which shares towers with the Rio Oso-Lockeford 230 kV Transmission Line, appears in a 1939 topographical quadrangle. Nearly a decade later, PG&E's Lockeford Substation (located along East Kettleman Lane to the east of SR 88) was put in service, in December 1948 (No author 1949). The Lockeford Substation was part of PG&E's post World War II construction program (*Lodi News-Sentinel* 1949). The Rio Oso Substation (south of Marysville, CA) was built in 1954. Newspaper and online research did not identify a specific date of construction for the Rio Oso-Lockeford 230 kV Transmission Line. Aerial photographs indicate the east-west transmission line from Lockeford Substation east was connected to the northwest-southeast transmission line to Rio Oso (and shared by Brighton-Bellota 230 kV Transmission Line) between 1967 and 1984 (NETROnline 2022; USGS 2022).

Evaluation

Under CRHR Criterion 1, the portion of the Rio Oso-Lockeford 230 kV Transmission Line in the APl has no significant association with the broad patterns of local, reginal, or national history. Based on aerials, this portion of the line was built sometime between 1967 and 1984 (NETROnline 2022). While the subject segment relates to a period of rapid growth throughout the state, it is one of many transmission features constructed during this time and lacks a direct specific association with this event and pattern. Therefore, it is not eligible for the CRHR under Criterion 1.

Under CRHR Criterion 2, the portion of the Rio Oso-Lockeford 230 kV Transmission Line in the APl have no significant association with the lives of persons important to local, California, or national history. The segments would not reflect a major contribution by an individual important to PG&E, nor would they represent the property most closely associated with an individual's productive life. Therefore, the portion of the line in the APl is not eligible for the CRHR under Criterion 2.

Under CRHR Criterion 3, the portion of the Rio Oso-Lockeford 230 kV Transmission Line in the APl does not embody the distinctive characteristics of a type, period, region, or method of construction, represent the work of a master, or possess high artistic values. The structures are utilitarian electric transmission lines with a standard design that utilized common engineering practices. Their design matches countless other 230 kV lines strung on lattice towers located throughout

California and the West. No aspect of their design and construction reflects an innovative practice or the work of a master. Therefore, the portion of the line in the API is not eligible for the CRHR under Criterion 3.

Under CRHR Criterion 4, the Rio Oso-Lockeford 230 kV Transmission Line segment has not yielded nor appear to possess the potential to yield information important to the prehistory or history of the local area, California, or the nation.

Integrity

Location is the place where the historic property was constructed or the place where the historic event took place. The transmission line has not moved and retains integrity of location.

Design is the combination of elements that create the form, plan, space, and style of a property. The transmission line appears to have retained its design based on aerial photograph review.

Setting is the physical environment of a historic property. The property retains its rural surroundings. Therefore, it retains its integrity of setting.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern of configuration to form a historic property. The property retains integrity of materials.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. The property retains integrity of workmanship.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. This property retains its general form in a rural setting, allowing it to retain its integrity of feeling.

Association is the direct link between an important historic event or person and a historic property. This property has no historical associations to convey.

Although it retains integrity, the portion of the Rio Oso-Lockeford 230 kV Transmission Line Transmission Line in the API does not meet the CRHR criteria. Therefore, the property is not eligible for listing in the CRHR or as a historical resource for purposes of CEQA, either as an individual resource or as a contributor to a larger linear resource.

B12. References (continued)

California Department of Transportation (Caltrans). 2007. *A Historical Context and Archaeological Research Design for Agricultural Properties in California*. Accessed December 20, 2022. https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/agriculture-study-a11y.pdf.

Contra Costa Gazette. 1947. "1,000,000 New Electric Horsepower to Serve a Greater California." Accessed December 20, 2022. https://www.newspapers.com/, subscription database.

Lodi News Sentinel. "From Our Files," April 29, 1943. Accessed January 17, 2023. Newspapers.com.

NETROnline. 2022. Aerial images and topographic quadrangles of the API. Accessed December 2022. https://www.historicaerials.com/viewer.

U.S. Geological Survey (USGS). 2022. "USGS Historical Topographic Map Explorer." Accessed December 2022. https://livingatlas.arcgis.com/topoexplorer/index.html

Walker, Matt. 2017. *P-39-005337. Tesla-Salado-Manteca 115kV Transmission Line*. Cardno Inc. On file with the Central California Information Center, California State University, Stanislaus.

Section P5. Photographs (continued)

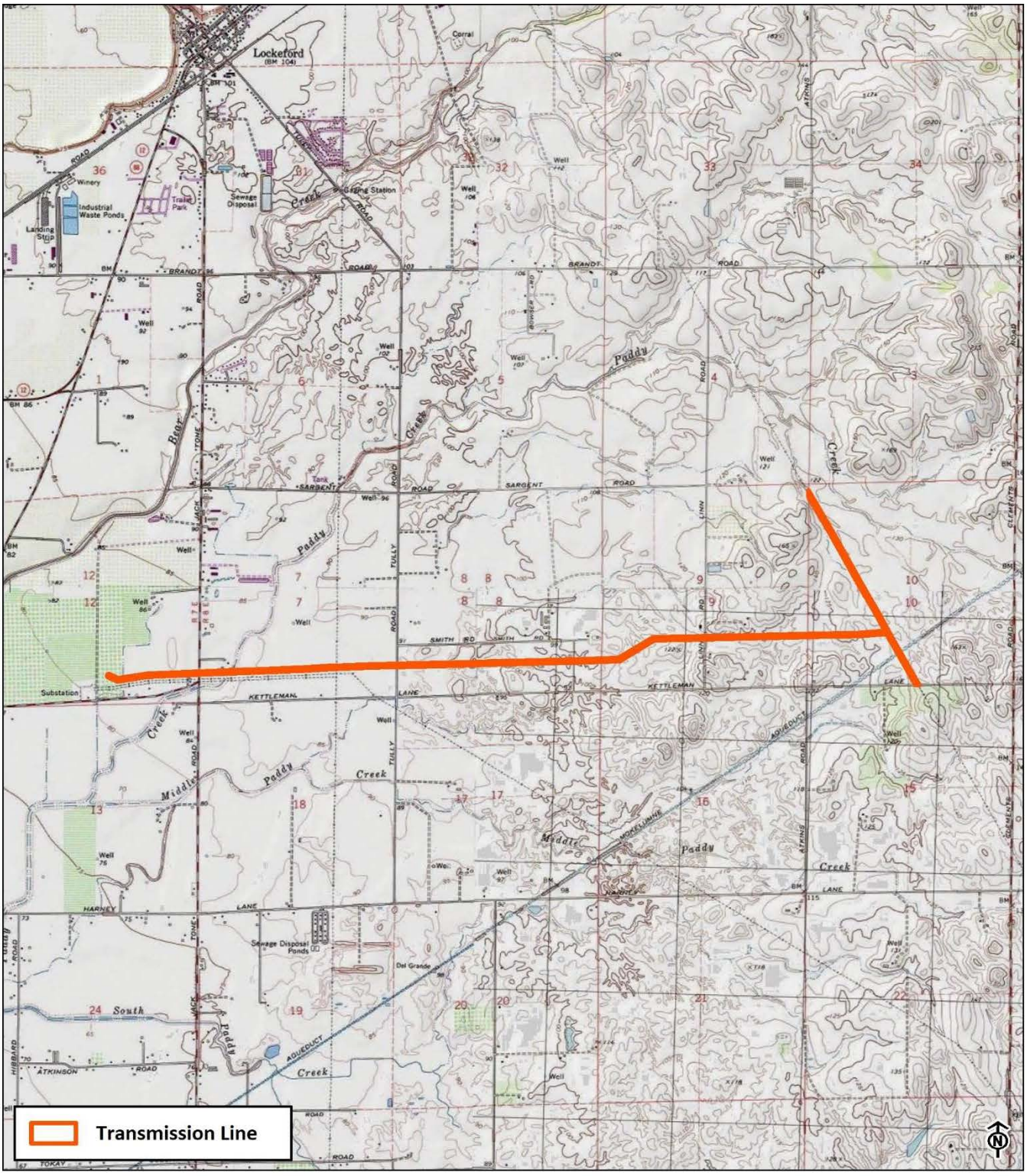


View northeast showing intersection of the east-west segment from Lockeford Substation and the northwest-southeast segment (Jacobs 2022).

State of California - Natural Resources Agency	Primary #
DEPARTMENT OF PARKS AND RECREATION	HRI #
LOCATION MAP	Trinomial

Page 6 **of** 6 ***Resource Name or #** PG&E Rio Oso-Lockeford 230 kV Transmission Line (Resource ID 69)

***Map Name:** Linden 1972 ***Scale:** 1:24,000 (Not to scale) ***Date of map:** 01/10/2023



Appendix D2
Cultural Report

CONFIDENTIAL VERSION: Appendix D2, Cultural Report contains confidential material and has been removed in its entirety. The report will be filed via archival grade DVDs with the Docket Office.

[redacted]

Appendix D3
Cultural Report Addendum

CONFIDENTIAL VERSION: Appendix D3, Cultural Report Addendum contains confidential material and has been removed in its entirety. The report will be filed via archival grade DVDs with the Docket Office.

[redacted]

Appendix D4
NAHC and NA Correspondence

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
915 Capitol Mall, RM 364
Sacramento, CA 95814
(916) 653-4082
(916) 657-5390 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Date: **November 4, 2015**

Project: **Northern San Joaquin Power Connect Routing and Siting Study**

County: **San Joaquin**

USGS Quadrangle Name: ***Thornton, Lodi North, Lockeford, Terminus, Lodi South and Waterloo, CA 7.5'***

Township & Range:

2N 5E	2N 6E	2N 7E
3N 5E	3N 6E	3N 7E
4N 5E	4N 6E	4N 7E

Company/Firm/Agency: **Pacific Gas and Electric Co.**

Contact Person: **Mike Taggart**

Street Address: **2730 Gateway Oaks, Suite 220**

City: **Sacramento** Zip: **95833**

Phone: **916.923.7047**

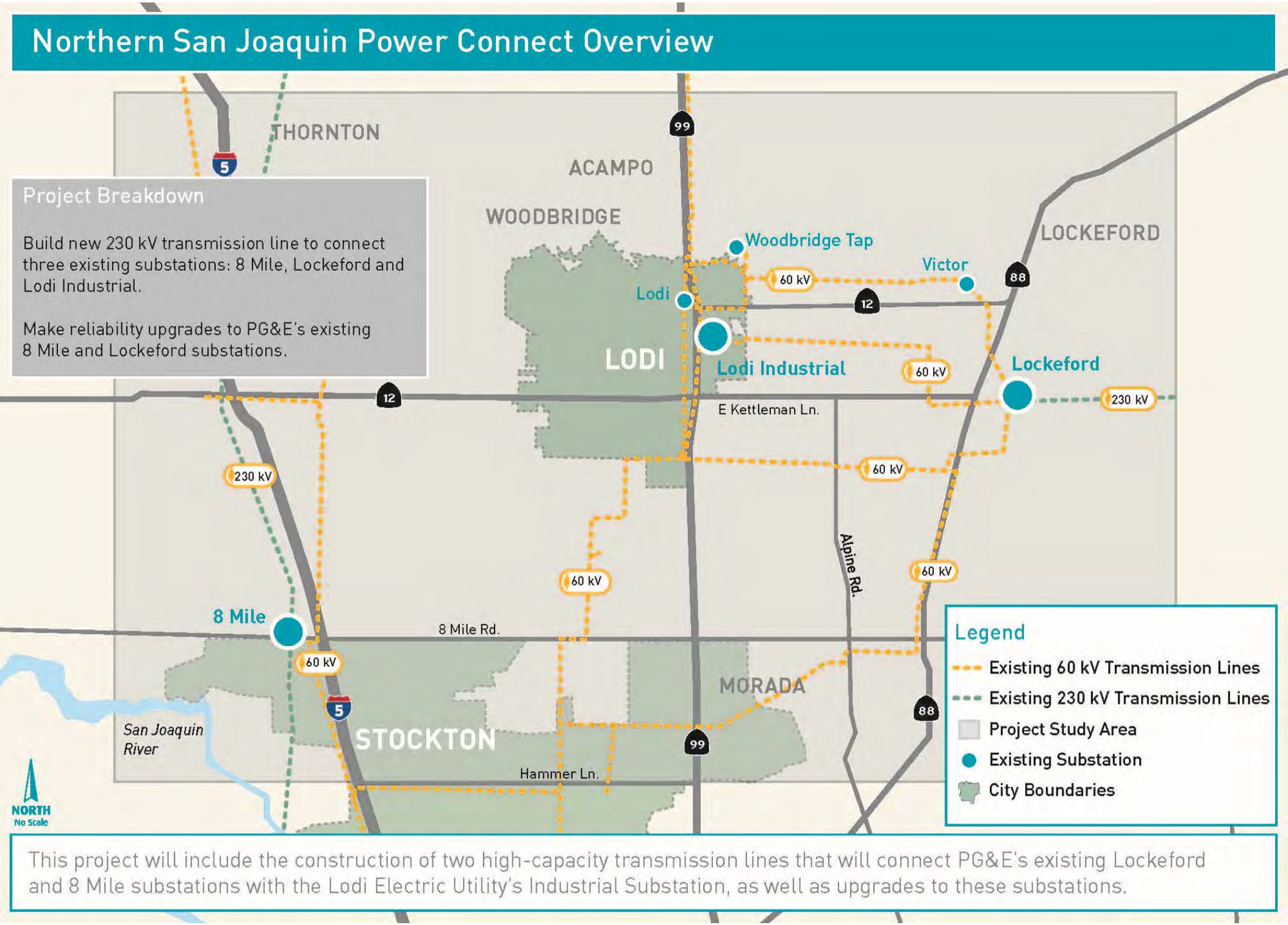
Fax: **916.923.7093**

Email: **m1ti@pge.com**

Project Description:

PG&E is evaluating the routing options for a new, approximately 16-mile, 230 kV, double circuit transmission line in San Joaquin County. The project is needed to provide additional transmission capacity to serve Lodi Electric Utility customers and other PG&E customers in the county.

Northern San Joaquin Power Connect Overview



Project Breakdown

Build new 230 kV transmission line to connect three existing substations: 8 Mile, Lockeford and Lodi Industrial.

Make reliability upgrades to PG&E's existing 8 Mile and Lockeford substations.

Legend

- Existing 60 kV Transmission Lines
- Existing 230 kV Transmission Lines
- Project Study Area
- Existing Substation
- City Boundaries

This project will include the construction of two high-capacity transmission lines that will connect PG&E's existing Lockeford and 8 Mile substations with the Lodi Electric Utility's Industrial Substation, as well as upgrades to these substations.

NATIVE AMERICAN HERITAGE COMMISSION
1550 HARBOR BLVD., SUITE 100
WEST SACRAMENTO, CA 95691
916-373-3710
Fax (916-373-5471

November 30, 2015

Mike Taggart
PACIFIC GAS AND ELECTRIC CO.
2730 Gateway Oaks, Ste 220
Sacramento, CA 95833

Sent by Email: mike.taggart@pge.com
Number of Pages: 2

RE: Northern San Joaquin Power Connect Routing and Siting Study Project, San Joaquin County

Dear Mr. Taggart;

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 373-3713.

Sincerely,

Rita Weston for

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contact
San Joaquin County
November 25, 2015

Randy Yonemura
4305 - 39th Avenue Miwok
Sacramento , CA 95824
randy_yonemura@yahoo.com
(916) 421-1600
(916) 601-4069 Cell

Buena Vista Rancheria
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200 Me-Wuk / Miwok
Sacramento , CA 95811
rhonda@buenavistatribe.com
(916) 491-0011 Office

(916) 491-0012 Fax

California Valley Miwok Tribe
4620 Shippee Lane Miwok
Stockton , CA 95212
office@cvmt.net
(209) 931-4567 Office

(209) 931-4333 Fax

Ione Band of Miwok Indians
Dr. Crystal Martinez, Chairperson
P.O. Box 699 Miwok
Plymouth , CA 95669
administrator@ionemiwok.org
(209) 245-5800 Office

(209) 245-3112 Fax

Ione Band of Miwok Indians Cultural Committee
P.O. Box 699 Miwok
Plymouth , CA 95669
(209) 245-5800 Office

(209) 245-3112 Fax

Wilton Rancheria
Raymond Hitchcock, Chairperson
9728 Kent Street Miwok
Elk Grove , CA 95624
rhitchcock@wiltonrancheria-nsn.gov
(916) 683-6000 Office

(916) 683-6015 Fax

Wilton Rancheria
Steven Hutchason, Executive Director Environmental Resources
9728 Kent Street Miwok
Elk Grove , CA 95624
shutchason@wiltonrancheria-nsn.gov
(916) 683-6000, Ext. 2006

(916) 683-6015 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Northern San Joaquin Power Connect Routing and Siting Study Project, San Joaquin County.

Pacific Gas and Electric Company

Mike Taggart, RPA
Sr. Cultural Resources Specialist
Environmental Planning and Permitting

Mailing Address
2730 Gateway Oaks Dr., #220
Sacramento, CA 95833
Tel: 916.923.7047
Email: M1TI@pge.com

May 26, 2016

Name
Affiliation
Address
Address

Re: Initial Scoping for the Northern San Joaquin Power Connect Project – San Joaquin County, CA

Dear XX:

Pacific Gas and Electric Company (PG&E) is preparing to initiate environmental and cultural resource studies for the proposed Northern San Joaquin Power Connect project. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. The enclosed map shows the broad study area the project team is currently considering.

The region's residential, agricultural and industrial growth has increased demand in the region. This growth has driven the need for new energy infrastructure to handle the area's growing demand. In 2012, the California Independent System Operator, which manages the State's electrical grid, identified a need for new transmission in the northern part of San Joaquin County. Its report outlined potential voltage and thermal overload concerns in the area that could lead to low voltages for industrial users and an increased risk of outages.

We are in the early stages of the process, which includes introducing the project to the community and gathering input before developing potential routes. A proposed route has not been selected, but we would like to invite you to attend a public open house to learn more about the project and provide feedback about the potential transmission line corridors. At the open house, you will have an opportunity to discuss the project one-on-one with project team members. This open house is open to the public, and anyone is welcome to attend.

Our planning process not only involves research and field reviews but also numerous stakeholder meetings and community open houses to promote two-way communication. As we move into the next phase, we will continue our engagement and provide opportunities to meet specifically to discuss all potential resources of concern to Native American communities. PG&E is dedicated to engaging Native American stakeholders early in the planning process, helping ensure their feedback shapes the final project. Throughout the process, we will proactively listen to and address community concerns, while soliciting feedback on potential corridors and routes.

Open house dates and locations:

WHEN:	Monday, June 13, 2016, 5:00 – 7:00 p.m.
WHERE:	Lockeford Community Center 19258 Jack Tone Rd., Lockeford, CA 95237
WHEN:	Tuesday, June 14, 2016, 10:00 a.m. – 12:00 p.m. & 4:00 – 7:00 p.m.
WHERE:	Lodi Public Library, Community Room 201 W. Locust St., Lodi, CA 95240

WHEN:	Wednesday, June 15, 2016, 5:00 – 7:00 p.m.
WHERE:	Bear Creek High School Theater 10555 Thornton Rd., Stockton, CA 95209

If you have any information, questions or concerns regarding this project, please feel free to call or email me.

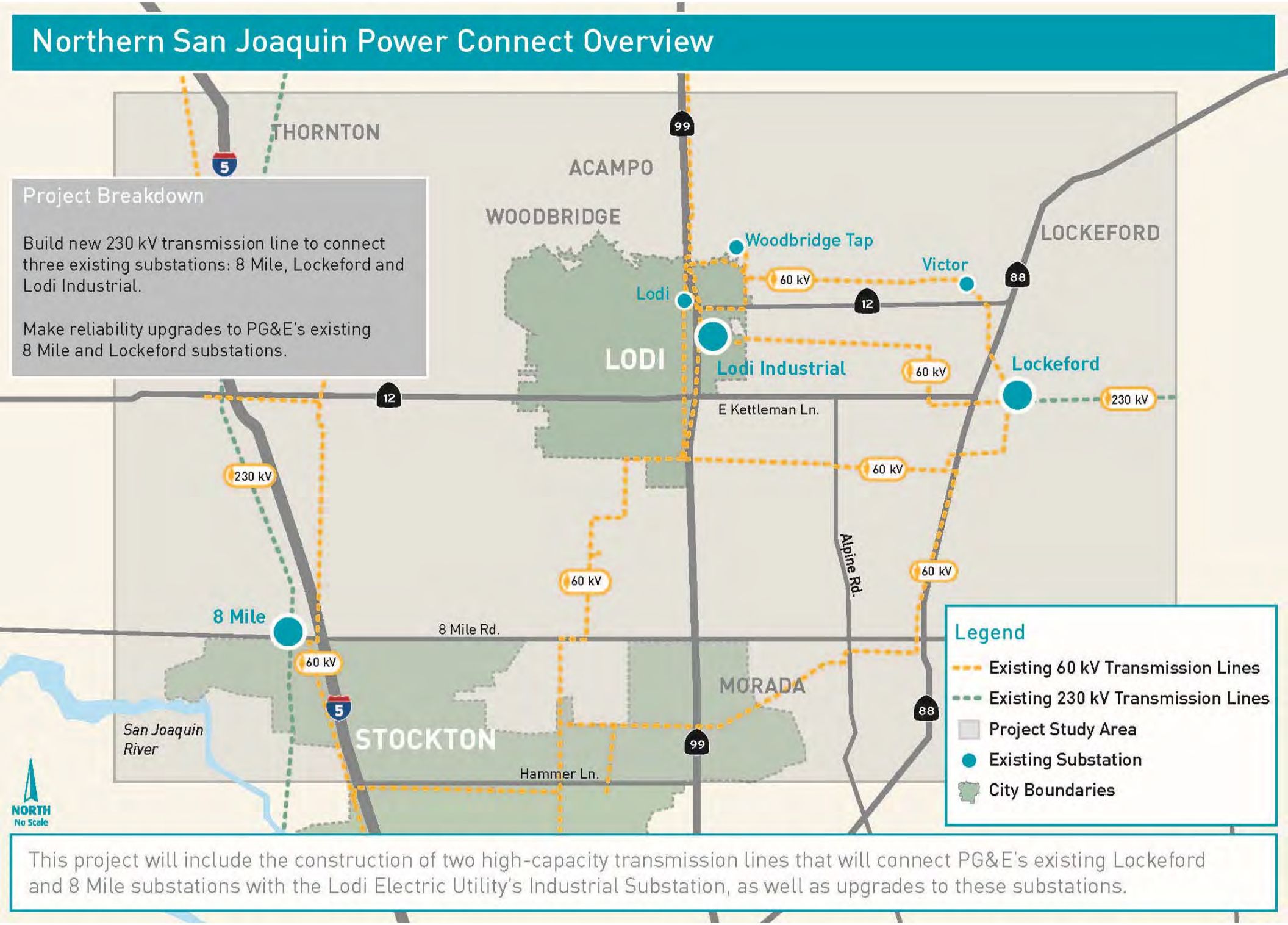
Sincerely,



Mike Taggart
Sr. Cultural Resource Specialist

Enclosure (map)

Northern San Joaquin Power Connect Overview



Project Breakdown

Build new 230 kV transmission line to connect three existing substations: 8 Mile, Lockeford and Lodi Industrial.

Make reliability upgrades to PG&E's existing 8 Mile and Lockeford substations.

Legend

- Existing 60 kV Transmission Lines
- Existing 230 kV Transmission Lines
- Project Study Area
- Existing Substation
- City Boundaries

This project will include the construction of two high-capacity transmission lines that will connect PG&E's existing Lockeford and 8 Mile substations with the Lodi Electric Utility's Industrial Substation, as well as upgrades to these substations.

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RE875277315US

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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Randy Yonemura
4305 24th Ave
Sacramento, CA 95824
Sacramento, CA 95824

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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Tolowa Band of Miwok Indians Cultural Committe
P.O. Box 699
Plymouth, CA 95669
Plymouth, CA 95699

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☐ Signature Confirmation $
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Total Postage & Fees $ $12.17
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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Rhonda Morningstar Pope
Buena Vista Rancheria
1418 20th St. Ste. 200
Sacramento, CA 95811

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☐ Restricted Delivery $
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☐ Signature Confirmation $
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Total Postage & Fees $ $12.17
Customer Must Declare Full Value $0.00
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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
California Valley Miwok Tribe
4620 Stockton Blvd.
Stockton, CA 95212

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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Raymond Hitchcock
Wilton Rancheria
9728 Kent St.
Elk Grove, CA 95624

PS Form 3806, Registered Mail Receipt
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FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Steven Hutchason
Wilton Rancheria
9728 Kent St.
Elk Grove, CA 95624

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☐ Restricted Delivery $ $0.00	
Customer Must Declare Full Value $ 0.00	Received by 06/03/2016

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To Be Completed By Customer (Please Print) All Entries Must Be In Ballpoint or Typed

FROM
Mike Taggart
PG&E
2730 Gateway Oaks Dr. #220
Sacramento, CA 95833

TO
Dr. Crystal Martinez
Lone Pine Band of Mission Indians
P.O. Box 699
Plymouth, CA 95669

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April 2015, PSN 7530-02-000-9051
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Pacific Gas and Electric Company

Mike Taggart, RPA
Sr. Cultural Resources Specialist
Environmental Planning and Permitting

Mailing Address
2730 Gateway Oaks Dr., #220
Sacramento, CA 95833
Tel: 916.923.7047
Email: M1TI@pge.com

November 14, 2016

Name
Affiliation
Address
Address

Re: Identification of Cultural Resources and Potential Routes for the Northern San Joaquin Power Connect Project – San Joaquin County, CA

Dear XX:

The initial scoping letter sent out June 2016 indicated that Pacific Gas and Electric Company (PG&E) is preparing to initiate environmental and cultural resource studies for the proposed Northern San Joaquin Power Connect project. The project will provide increased reliability and efficiency for more than 50,000 households and businesses in northern San Joaquin County, including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The proposed project would include building two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrading and potentially expanding these substations. The enclosed map shows the study area and the potential transmission line corridors the project team is currently analyzing.

As mentioned in our initial letter to you, the region's residential, agricultural and industrial growth has increased demand in the region. This growth has driven the need for new energy infrastructure to handle the area's growing and evolving demand. In 2012, the California Independent System Operator, which manages the State's electrical grid, identified a need for new transmission in the northern part of San Joaquin County. Its report outlined potential voltage and thermal overload concerns in the area that could lead to low voltages for industrial users and an increased risk of outages.

We are in the early stages of the planning process, which includes initiating a cultural resources records search with the Central California Information Center, introducing the project to the community and gathering information. Since our open houses in June, we have used stakeholder feedback on the potential corridors (see attached map), along with environmental and engineering data and studies, to identify potential routes for the new transmission lines. We would like to invite you to provide input on the project area by responding directly to me or by attending an open house in December. The open houses will provide additional information about the project, and you can provide feedback about the potential transmission line routes that have been identified within the corridors. At the open houses, you will have an opportunity to discuss the project and the potential routes one-on-one with project team members. These open houses are open to the public, and anyone is welcome to attend.

PG&E is dedicated to engaging Native American stakeholders early in the planning process, helping ensure their feedback shapes the final project. Our planning process not only involves research and field reviews to identify significant cultural and natural resources but also numerous stakeholder meetings and community open houses to promote two-way communication. As we move into the next phase and further refine the project, we will continue our engagement and provide additional opportunities to meet specifically to discuss all potential resources of concern to Native American communities. Throughout the process, we will proactively listen to and address community concerns, while soliciting feedback on the proposed project.

Below are the upcoming open house dates and locations:

WHEN:	Tuesday, December 6, 2016, 5:00 – 7:00 p.m.
WHERE:	Woodbridge Elementary School, Multipurpose Room

1290 Lilac Street, Woodbridge, CA 95242

WHEN:	Wednesday, December 7, 2016, 1:00 – 4:00 p.m.
WHERE:	Lockeford Community Center 19258 Jack Tone Road, Lockeford, CA 95237
WHEN:	Thursday, December 8, 2016, 10:00 a.m. – 12:00 p.m.
WHERE:	Lodi Public Library 201 W. Locust Street, Lodi, CA 95240
WHEN:	Thursday, December 8, 2016, 5:00 – 7:00 p.m.
WHERE:	John Muir Elementary School, Multipurpose Room 2303 Whistler Way, Stockton, CA 95209

If you have any information, questions or concerns regarding this project, please feel free to call or email me.

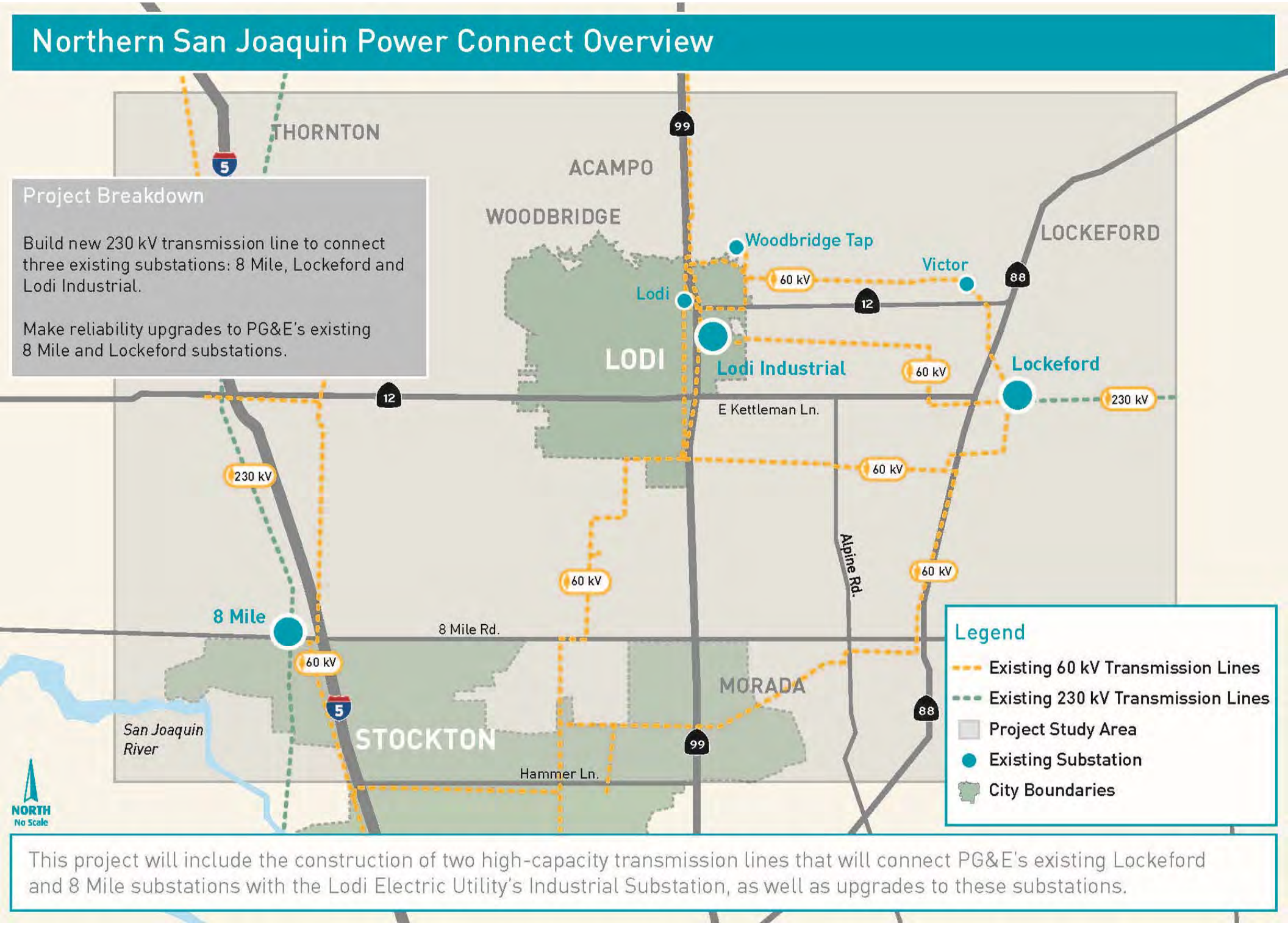
Sincerely,



Mike Taggart
Sr. Cultural Resource Specialist

Enclosure (map)

Northern San Joaquin Power Connect Overview



Project Breakdown

Build new 230 kV transmission line to connect three existing substations: 8 Mile, Lockeford and Lodi Industrial.

Make reliability upgrades to PG&E's existing 8 Mile and Lockeford substations.

Legend

- Existing 60 kV Transmission Lines
- Existing 230 kV Transmission Lines
- Project Study Area
- Existing Substation
- City Boundaries

This project will include the construction of two high-capacity transmission lines that will connect PG&E's existing Lockeford and 8 Mile substations with the Lodi Electric Utility's Industrial Substation, as well as upgrades to these substations.

Registered No. RB396688057US

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Mike Taggart
2730 Gateway Oaks Dr. #220
Sacramento, CA
95833 94612

TO
Raymond Hitchcock
9728 Kent St. 95624
Elk Grove, CA
95624

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Mike Taggart
2730 Gateway Oaks Dr., #220
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95833 94612

TO
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9728 Kent St. 95624
Elk Grove, CA
95624

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FROM
Mike Taggart
2730 Gateway Oaks Dr #220
Sacramento CA
95833 94612

TO
Crystal Martinez
P.O. Box 699 95669
Plymouth, CA
95669

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Postage	$0.00 $0.00	Restricted Delivery	
Received by	$0.00		$12.17

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FROM
Mike Taggart
2730 Gateway Oaks Dr #220
Sacramento, CA
95833 94612

TO
California Valley Miwok Tribe
4620 Shippee Ln.
Stockton, CA
95212

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OAKLAND CA 94612

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FROM
Mike Taggart
2730 Gateway Oaks Dr #220
Sacramento CA
95833 94612

TO
Ione Band of Miwok Indians
Cultural Committee
PO Box 699
Plymouth, CA 95669

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OAKLAND CA 94612

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FROM
Mike Taggart
2730 Gateway Oaks Dr #220
Sacramento, CA
95833 94612

TO
Rhonda Morningstar Pope
1418 20th St., Suite 200
Sacramento, CA
95811

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Handling Charge	$11.70	Return Receipt	
Postage	$0.00 $0.00	Restricted Delivery	
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OAKLAND CA 94612

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FROM
Mike Taggart
2730 Gateway Oaks Dr #220
Sacramento CA
95833 94612

TO
Randy Yonemura
4305 39th Ave.
Sacramento CA
95824

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Taylor, Colleen

From: Taggart, Michael <M1Ti@pge.com>
Sent: Wednesday, December 7, 2016 10:37 AM
To: Ed Silva
Subject: RE: Northern San Joaquin Power Connect Project [EXTERNAL]

Good morning Mr. Silva,

We would be happy to sit down with you to discuss the project and cultural resources of concern to the Tribe. Do you have availability in January to meet?

Also, do you mind sending me your phone number for future communications?

Best,
Mike

Mike Taggart, RPA
Sr. Cultural Resource Specialist
Pacific Gas and Electric Company
2730 Gateway Oaks Dr., Suite 220
Sacramento, CA 95833
Ofc: 916.923.7047 Cell: 916.261.6523

From: Ed Silva [mailto:esilva@wiltonrancheria-nsn.gov]
Sent: Tuesday, December 06, 2016 3:38 PM
To: Taggart, Michael
Cc: Ed Silva
Subject: Northern San Joaquin Power Connect Project

This is an EXTERNAL EMAIL. Stop and think before clicking links or opening attachments.
****

Hi Mike,

My office is unable to attend an of the events however we are very interested in the project. We do have some Tribal Resources in the area so we would like to be kept in the loop in the project.

If you have any additional info please email me.

Thank you,

Ed Silva
Tribal Resources Coordinator
Wilton Rancheria

Native American Contact Log for Northern San Joaquin 230 kV Transmission Project

Name/Affiliation Contact Information	**Type of Contact**	**Date**	Action/ Response
NAHC	Email	4/13/2021	Requested Sacred Lands Search and Contact List; received Contact List May 10, 2021.
Buena Vista Rancheria of Me-Wuk Indians Rhonda Morningstar Pope, Chairperson 1418 20th Street, Suite 200 Sacramento, CA, 95811 Phone: (916) 491 - 0011 Fax: (916) 491-0012 rhonda@buenavistatribe.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Ivan Senock emailed PG&E CRS Starla Lane on 7/12/2021. The response said that "after review of the notification and examination of the property using the Google Earth mapping application, it is determined BVR has no objection to commencement of the project. If Tribal Cultural Resources (TCR) should be inadvertently encountered, during the project, Buena Vista Rancheria requests additional notification so steps may be taken to protect and preserve them."
California Valley Miwok Tribe 14807 Avenida Central La Grange, CA, 95329 Phone: (209) 931 - 4567 Fax: (209) 931-4333	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
California Valley Miwok Tribe AKA Sheep Rancheria of Me-Wuk Indians of CA, P.O. Box 395 West Point, CA, 95255 Phone: (209) 293 - 4179 l.ewilson@yahoo.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Chicken Ranch Rancheria of Me-Wuk Indians Lloyd Mathiesen, Chairperson P.O. Box 1159 Jamestown, CA, 95327 Phone: (209) 984 - 9066 Fax: (209) 984-9269 lmathiesen@crtribal.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Guidiville Indian Rancheria Donald Duncan, Chairperson P.O. Box 339 Talmage, CA, 95481 Phone: (707) 462 - 3682 Fax: (707) 462-9183 admin@guidiville.net	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.

Ione Band of Miwok Indians Sara Dutschke, Chairperson 9252 Bush Street Plymouth, CA, 95669 Phone: (209) 245 - 5800 consultation@ionemiwok.net	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Muwekma Ohlone Indian Tribe of the SF Bay Area Monica Arellano, Vice Chairwoman 20885 Redwood Road, Suite 232 Castro Valley, CA, 94546 Phone: (408) 205 - 9714 marellano@muwekma.org	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Nashville Enterprise Miwok-Maidu-Nishinam Tribe Cosme Valdez, Chairperson P.O. Box 580986 Elk Grove, CA, 95758-0017 Phone: (916) 429 - 8047 Fax: (916) 429-8047 valdezcome@comcast.net	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
North Valley Yokuts Tribe Katherine Perez, Chairperson P.O. Box 717 Linden, CA, 95236 Phone: (209) 887 - 3415 canutes@verizon.net	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
North Valley Yokuts Tribe Timothy Perez, P.O. Box 717 Linden, CA, 95236 Phone: (209) 662 - 2788 huskanam@gmail.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Tule River Indian Tribe Joey Garfield, Tribal Archaeologist P. O. Box 589 Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932 joey.garfield@tulerivertribensn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
Tule River Indian Tribe Neil Peyron, Chairperson P.O. Box 589 Porterville, CA, 93258 Phone: (559) 781 - 4271 Fax: (559) 781-4610 neil.peyron@tulerivertribe-nsn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.

Tule River Indian Tribe Kerri Vera, Environmental Department P. O. Box 589 Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932 kerri.vera@tulerivertribe-nsn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.
United Auburn Indian Community of the Auburn Rancheria Gene Whitehouse, Chairperson 10720 Indian Hill Road Auburn, CA, 95603 Phone: (530) 883 - 2390 Fax: (530) 883-2380 bguth@auburnrancheria.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Anna Cheng emailed Starla Lane on 7/6/2021. The response said that the United Auburn Indian Community of the Auburn Rancheria wishes to consult on this project. The United Auburn Indian Community replied that they do not show any previously recorded CHRIS sites in the APE, however that may be due to private property not surveyed. United Auburn Indian Community of the Auburn Rancheria inquired whether a cultural resources survey been conducted or is scheduled, and if one has already been conducted, they request that it is shared with them. Starla responded that she would be happy to provide a copy of the report when it is complete. Ms. Cheng responded that they would like to review the draft once complete and "may request to survey for sites of cultural and religious significance to UAIC, but are not requesting that at this time."

Wilton Rancheria Steven Hutchason, THPO 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 Fax: (916) 863-6015 shutchason@wiltonrancheriansn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Mariah Mayberry emailed Starla Lane on 6/25/2021. The response said that Wilton Rancheria would like to request consultation on this project. Wilton Rancheria would also like to request any other maps of the project along with the Cultural Resources Assessment once it is completed. Starla responded that she would be happy to provide the tribe with a copy of the report once it is complete.
Wilton Rancheria Dahlton Brown, Director of Administration 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 dbrown@wiltonrancheria-nsn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Mariah Mayberry emailed Starla Lane on 6/25/2021. See response above.
Wilton Rancheria Jesus Tarango, Chairperson 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 Fax: (916) 683-6015 jtarango@wiltonrancheria-nsn.gov	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Mariah Mayberry emailed Starla Lane on 6/25/2021. See response above.
The Confederated Villages of Lisjan Corrina Gould, Chairperson 10926 Edes Avenue Oakland, CA, 94603 Phone: (510) 575 - 8408 cvltribe@gmail.com	Letter	6/17/2021	Sent contact letter describing project and records search results, request input about spiritual places or traditional values.

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

May 10, 2021

Courtney Higgins

Far Western Anthropological Research Group, Inc.

Via Email to: courtney@farwestern.com

Re: PG&E NSJ 230kV Project (WO# 74000933, FW #2778), San Joaquin County

Dear Ms. Higgins:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Nancy.Gonzalez-Lopez@nahc.ca.gov.

Sincerely,

Nancy Gonzalez-Lopez
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Joaquin County
5/10/2021

Buena Vista Rancheria of Me-Wuk Indians
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200 — Me-Wuk
Sacramento, CA, 95811
Phone: (916) 491 - 0011
Fax: (916) 491-0012
rhonda@buenavistatribe.com

California Valley Miwok Tribe
14807 Avenida Central — Miwok
La Grange, CA, 95329
Phone: (209) 931 - 4567
Fax: (209) 931-4333

California Valley Miwok Tribe
AKA Sheep Rancheria of Me-Wuk Indians of CA,
P.O. Box 395 — Miwok
West Point, CA, 95255
Phone: (209) 293 - 4179
l.ewilson@yahoo.com

Chicken Ranch Rancheria of Me-Wuk Indians
Lloyd Mathiesen, Chairperson
P.O. Box 1159 — Me-Wuk
Jamestown, CA, 95327
Phone: (209) 984 - 9066
Fax: (209) 984-9269
lmathiesen@crtribal.com

Guidiville Indian Rancheria
Donald Duncan, Chairperson
P.O. Box 339 — Pomo
Talmage, CA, 95481
Phone: (707) 462 - 3682
Fax: (707) 462-9183
admin@guidiville.net

Ione Band of Miwok Indians
Sara Dutschke, Chairperson
9252 Bush Street — Miwok
Plymouth, CA, 95669
Phone: (209) 245 - 5800
consultation@ionemiwok.net

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano, Vice Chairwoman
20885 Redwood Road, Suite 232 — Costanoan
Castro Valley, CA, 94546
Phone: (408) 205 - 9714
marellano@muwekma.org

Nashville Enterprise Miwok-Maidu-Nishinam Tribe
Cosme Valdez, Chairperson
P.O. Box 580986 — Miwok
Elk Grove, CA, 95758-0017
Phone: (916) 429 - 8047
Fax: (916) 429-8047
valdezcome@comcast.net

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 887 - 3415 — Yokut
canutes@verizon.net

North Valley Yokuts Tribe
Timothy Perez,
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 662 - 2788 — Yokut
huskanam@gmail.com

Tule River Indian Tribe
Joey Garfield, Tribal Archaeologist
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
joey.garfield@tulerivertribe-nsn.gov

Tule River Indian Tribe
Neil Peyron, Chairperson
P.O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 781 - 4271
Fax: (559) 781-4610
neil.peyron@tulerivertribe-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed PG&E NSJ 230kV Project (WO# 74000933, FW #2778), San Joaquin County.

Tule River Indian Tribe
Kerri Vera, Environmental Department
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
kerri.vera@tulerivertribe-nsn.gov

United Auburn Indian Community of the Auburn Rancheria
Gene Whitehouse, Chairperson
10720 Indian Hill Road — Maidu
Auburn, CA, 95603 — Miwok
Phone: (530) 883 - 2390
Fax: (530) 883-2380
bguth@auburnrancheria.com

Wilton Rancheria
Steven Hutchason, THPO
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 863-6015
shutchason@wiltonrancheria-nsn.gov

Wilton Rancheria
Dahlton Brown, Director of Administration
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
dbrown@wiltonrancheria-nsn.gov

Wilton Rancheria
Jesus Tarango, Chairperson
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 683-6015
jtarango@wiltonrancheria-nsn.gov

The Confederated Villages of Lisjan
Corrina Gould, Chairperson
10926 Edes Avenue — Bay Miwok
Oakland, CA, 94603 — Ohlone
Phone: (510) 575 - 8408 — Delta Yokut
cvltribe@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed PG&E NSJ 230kV Project (WO# 74000933, FW #2778), San Joaquin County.

June 17, 2021

California Valley Miwok Tribe
14807 Avenida Central
La Grange, CA 95329

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Sir or Madam,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

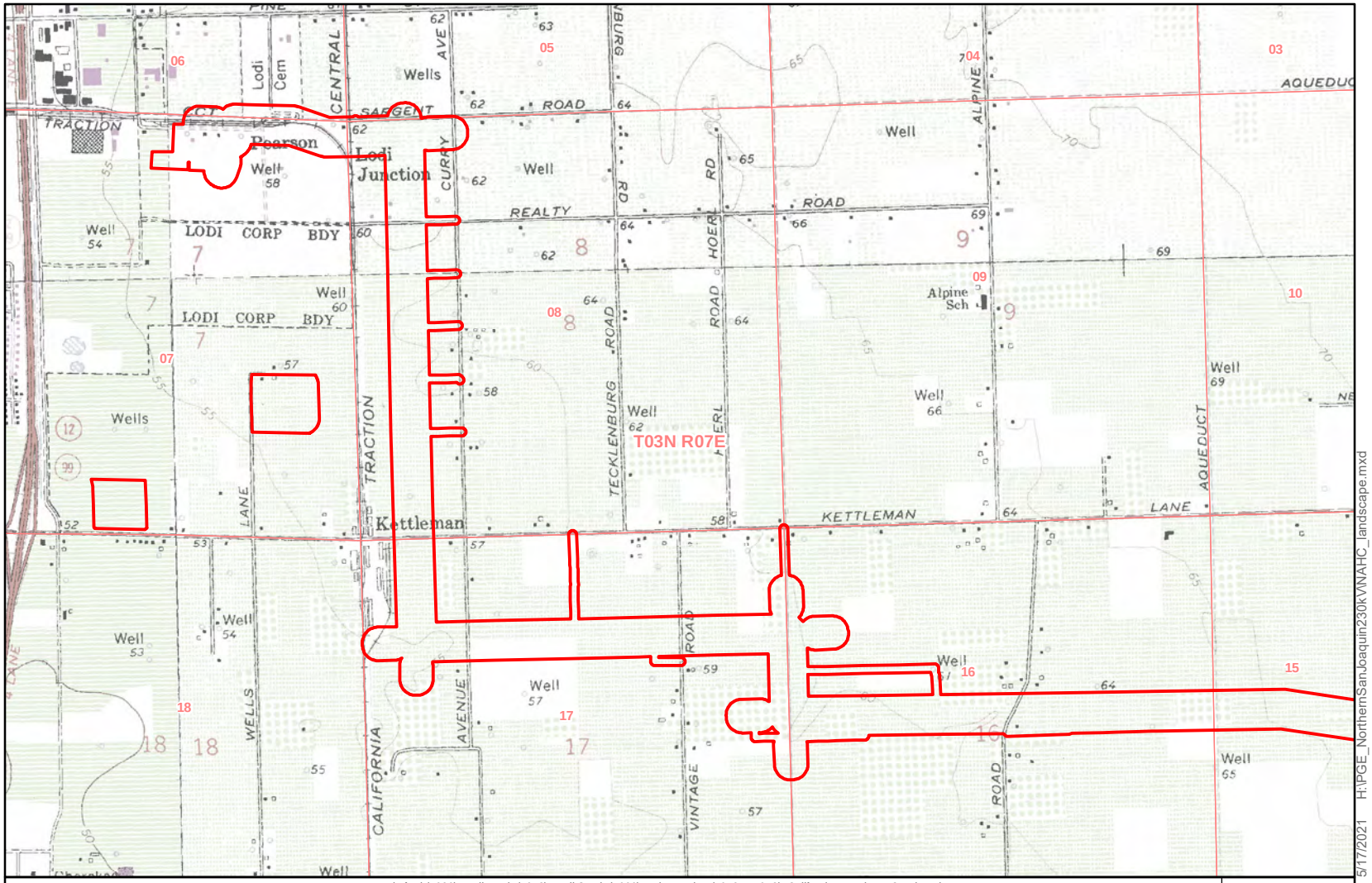
If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)



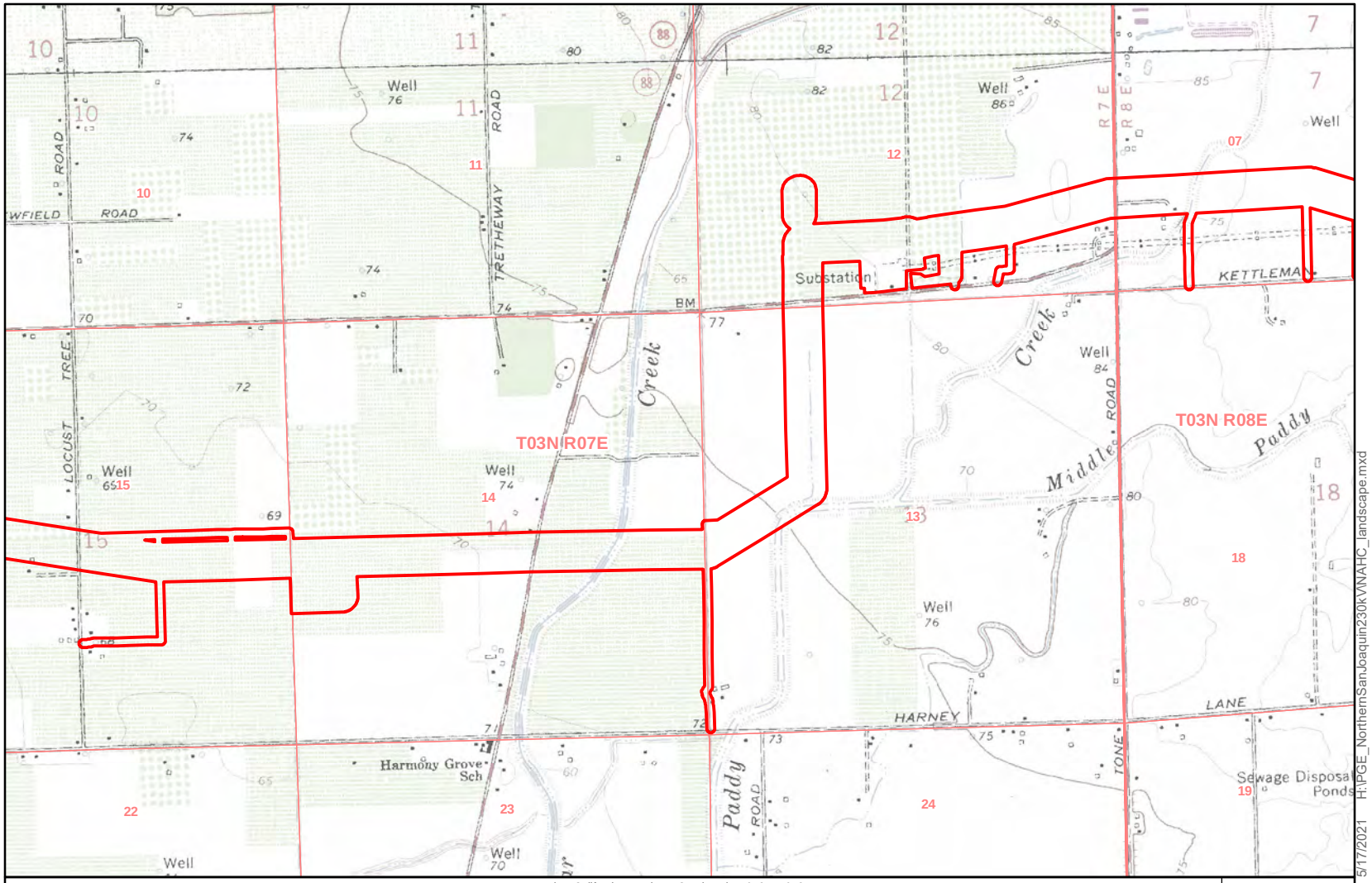
Lockeford (1980), Lodi North (1978), Lodi South (1960) and Waterloo (1972, r. 1978), California 7.5-minute Quadrangles
T3N R7E Sect. 5-9, 15-18, MDB&M
San Joaquin County, California

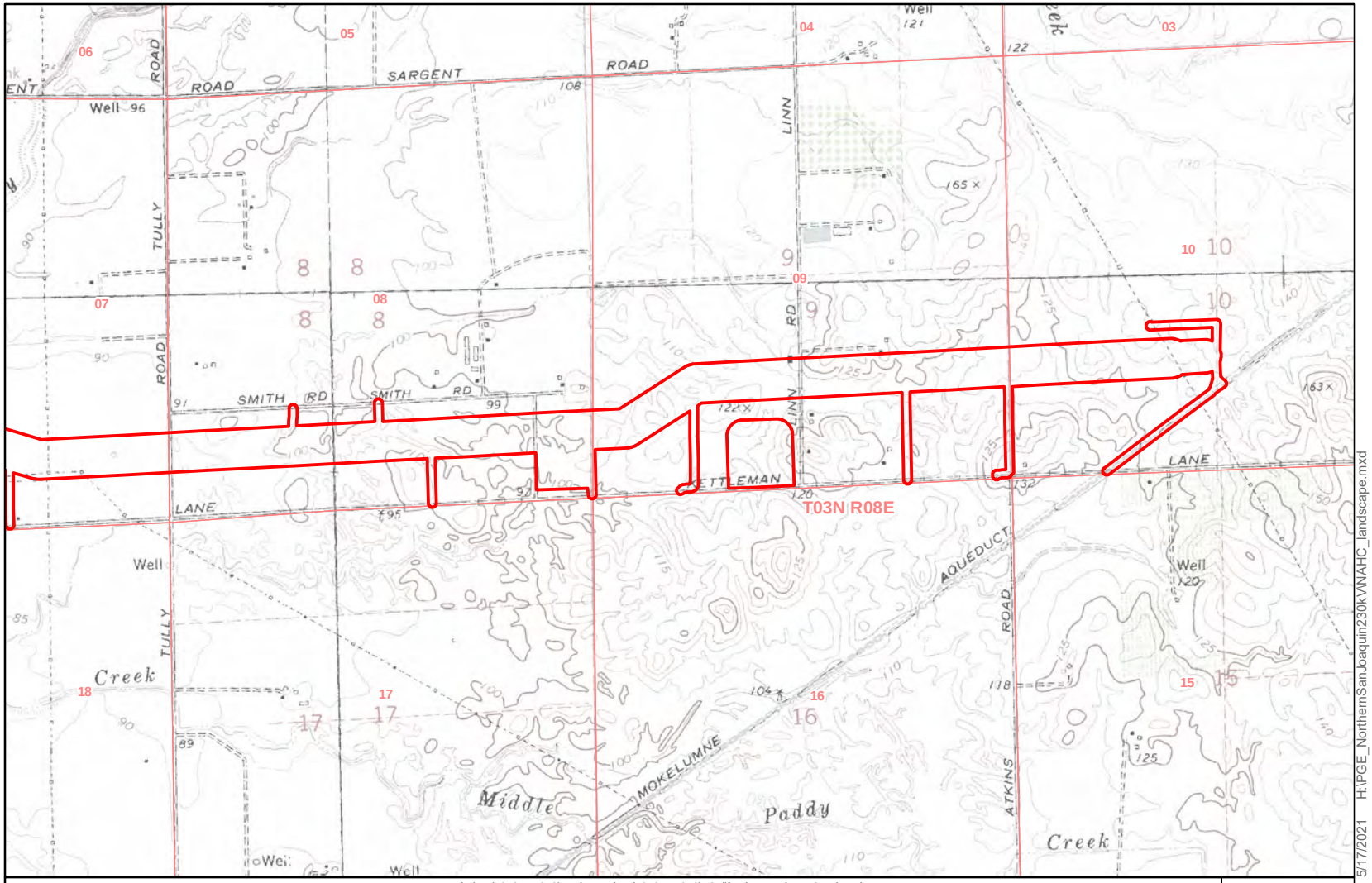
Township/Range/Section
Survey Area

Kilometers
0 0.5 1
0 0.25 0.5
Miles

1:24,000

5/17/2021 H:\PGE_NorthernSanJoaquin230kV\NAHC_landscape.mxd


T03N R07E
T03N R08E
Township/Range/Section
Survey Area
Waterloo, California 7.5-minute Quadrangle, 1972, r. 1978
T3N R7E Sect. 12-15 and T3N R8E Sect. 7, 18, MDB&M
San Joaquin County, California
Kilometers
0 0.5 1
0 0.25 0.5
Miles
1:24,000
5/17/2021 H:\PGE_NorthernSanJoaquin230kV\NAHC_landscape.mxd



Linden (1972, r. 1978) and Waterloo (1972, r. 1978), California 7.5-minute Quadrangles
T3N R8E Sect. 7-10, 15-17, MDB&M
San Joaquin County, California

Township/Range/Section
Survey Area

Kilometers
0 0.5 1
0 0.25 0.5
Miles

1:24,000

5/17/2021 H:\PGE_NorthernSanJoaquin230kV\NAHC_landscape.mxd

June 17, 2021

California Valley Miwok Tribe
P.O. Box 395
West Point, CA 95255

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Sir or Madam,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Corrina Gould
The Confederated Villages of Lisjan
10926 Edes Avenue
Oakland, CA 94603

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Gould,

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Cosme Valdez
Nashville Enterprise Miwok-Maidu-Nishinam Tribe
P.O. Box 580986
Elk Grove, CA 95758

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Cosme Valdez,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Dahlton Brown
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Brown,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

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- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
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PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Donald Duncan
Guidiville Indian Rancheria
P.O. Box 339
Talmage, CA 95481

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Duncan,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Gene Whitehouse
United Auburn Indian Community of Auburn Rancheria
10720 Indian Hill Road
Auburn, CA 95603

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Whitehouse,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Jesus Tarango
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Tarango,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Joey Garfield
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Garfield,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Katherine Erolinda Perez
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Erolinda Perez,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Kerri Vera
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Vera,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Lloyd Mathiesen
Chicken Ranch Rancheria of Me-Wuk Indians
P.O. Box 1159
Jamestown, CA 95327

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Mathiesen,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Monica Arellano
Muwekma Ohlone Indian Tribe of the SF Bay Area
20885 Redwood Road
Suite 232
Castro Valley, CA 94546

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Arellano,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Neil Peyron
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Peyron,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

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Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Rhonda Morningstar Pope
Buena Vista Rancheria
1418 20th Street, Suite 200
Sacramento, CA 95811

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Morningstar Pope,

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PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Ms. Sara Dutschke
Ione Band of Miwok Indians
9252 Bush Street
Plymouth, CA 95669

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Dutschke,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Steven Hutchason
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Hutchason,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

June 17, 2021

Mr. Timothy Perez
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

Re: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Perez,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been previously informed of this project when PG&E was engaging the community during the planning project and exploring the best route for the new transmission line. The enclosed map shows the current project area.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

A search of the Sacred Lands file by the Native American Heritage Commission did not indicate the presence of Native American cultural resources in the area. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified two previously recorded historic-era railroads as the sites intersecting the proposed transmission alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western May 5-10, 2021, and no new archaeological resources were identified.

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Cultural Resources Specialist

Enclosure (map)

Taylor, Colleen

From: Lane, Starla <S3LR@pge.com>
Sent: Monday, August 21, 2023 3:36 PM
To: Taylor, Colleen
Subject: [EXTERNAL] FW: Sec.106: Northern San Joaquin 230 kV Transmission Project

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From: Anna Starkey <astarkey@auburnrancheria.com>
Sent: Friday, July 9, 2021 10:30 AM
To: Lane, Starla <S3LR@pge.com>
Cc: Anna Cheng <acheng@auburnrancheria.com>
Subject: RE: Sec.106: Northern San Joaquin 230 kV Transmission Project

*****CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Good morning,
Thank you for your response. UAIC would like to review the cultural study once it is drafted please, including photographs. We may request to survey for sites of cultural and religious significance to UAIC, but are not requesting that at this time.

Kind regards,
Anna

From: Lane, Starla <S3LR@pge.com>
Sent: Thursday, July 8, 2021 12:59 PM
To: Anna Starkey <astarkey@auburnrancheria.com>
Cc: Anna Cheng <acheng@auburnrancheria.com>
Subject: RE: Sec.106: Northern San Joaquin 230 kV Transmission Project

Good Afternoon Ms. Starkey,

Thank you for the Tribe's response. Far Western Anthropological Research Group has completed cultural surveys and is finalizing the Cultural Resource Assessment. No cultural resources were identified within the area of potential impact. We anticipate having a copy of the report ready by late August and at that time I would be more than happy to provide the Tribe with a copy. Let me know if the Tribe would find it helpful to receive shapefiles depicting the project footprint, and I will provide that data as well. Please do not hesitate to contact me with any additional questions or data requests.

Thank you once again for your time and consideration,

Starla
Starla Lane | Senior Cultural Resource Specialist - Environmental Management
Pacific Gas and Electric Company
925.328.5033 office | 925.270.5998 cell | starla.lane@pge.com

---

From: Anna Starkey <astarkey@auburnrancheria.com>
Sent: Tuesday, July 6, 2021 10:21 AM

To: Lane, Starla <S3LR@pge.com>
Cc: Anna Cheng <acheng@auburnrancheria.com>
Subject: Sec.106: Northern San Joaquin 230 kV Transmission Project

*****CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Good morning Ms. Lane,
On behalf of the united Auburn Indian Community, thank you for the notification and opportunity to consult on the Northern San Joaquin 230 kV Transmission Project. The Tribal Historic Preservation Department has reviewed the project's APE and identified areas of cultural sensitivity and we wish to consult on this project. We do not show any previously recorded CHRIS sites in the APE, however that may be due to private property not surveyed. Has a cultural resources survey been conducted or is scheduled? If one has already been conducted, can you please share the results?

Kind regards,
Anna Starkey

The United Auburn Indian Community is now accepting electronic consultation request, project notifications, and requests for information! Please fill out and submit through our website. Do not mail hard copy letters or documents. *https://auburnrancheria.com/programs-services/tribal-preservation* *Bookmark this link!*

Anna M. Starkey, M.A., RPA
Cultural Regulatory Specialist
Tribal Historic Preservation Department| UAIC
10720 Indian Hill Road
Auburn, CA 95603
Direct line: (916) 251-1565 | Cell: (530) 863-6503
astarkey@auburnrancheria.com |www.auburnrancheria.com

Nothing in this e-mail is intended to constitute an electronic signature for purposes of the Electronic Signatures in Global and National Commerce Act (E-Sign Act), 15, U.S.C. §§ 7001 to 7006 or the Uniform Electronic Transactions Act of any state or the federal government unless a specific statement to the contrary is included in this e-mail.

Nothing in this e-mail is intended to constitute an electronic signature for purposes of the Electronic Signatures in Global and National Commerce Act (E-Sign Act), 15, U.S.C. §§ 7001 to 7006 or the Uniform Electronic Transactions Act of any state or the federal government unless a specific statement to the contrary is included in this e-mail.

You can read about PG&E's data privacy practices here or at PGE.com/privacy.

Taylor, Colleen

From:	Lane, Starla <S3LR@pge.com>
Sent:	Monday, August 21, 2023 3:33 PM
To:	Taylor, Colleen
Subject:	[EXTERNAL] FW: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project

From: Ivan Senock <ivan@bvtribe.com>
Sent: Monday, July 12, 2021 11:15 AM
To: Lane, Starla <S3LR@pge.com>
Subject: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project

*****CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****
July 12, 2021

Starla Lane
Pacific Gas and Electric Company
6111 Bollinger Canyon Road
3rd Floor, 3310-E, San Ramon, CA 94583

RE: Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Starla Lane,

I write on behalf of the Buena Vista Rancheria (BVR) of Me-Wuk Indians, Ione, CA. regarding the notification sent June 17, 2021 and received by this office on June 22, 2021. The notification references Pacific Gas & Electric Northern san Joaquin 230 kV Transmission Project. We appreciate your effort to contact us and wish to respond.

After review of the notification and examination of the property using the Google Earth mapping application, it is determined BVR has no objection to commencement of the project.

If Tribal Cultural Resources (TCR) should be inadvertently encountered, during the project, Buena Vista Rancheria requests additional notification so steps may be taken to protect and preserve them.

Respectfully,
Ivan Senock

Ivan R. Senock, MA
Tribal Historic Preservation Officer (THPO)
Buena Vista Rancheria of Me-Wuk Indians (Tribe)
1418 20th Street, Suite #200
Sacramento, CA 95811
Office: (916) 941-0011 ext. 255
Cell: (530) 588-1410

ivan@bvtribe.com

You can read about PG&E's data privacy practices here or at PGE.com/privacy.

Native American Contact Log for Northern San Joaquin 230 kV Transmission (Addendum) Project

Name/Affiliation Contact Information	Type of Contact	Date	Action/ Response
NAHC	Email	1/26/2023	Requested Sacred Lands Search and Contact List; pending response as of February 22, 2023.
Buena Vista Rancheria of Me-Wuk Indians Rhonda Morningstar Pope, Chairperson 1418 20th Street, Suite 200 Sacramento, CA, 95811 Phone: (916) 491 - 0011 Fax: (916) 491-0012 rhonda@buenavistatribe.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. A response was received on March 17, 2023, from Ivan Senock. The tribe requests formal government-to-government consultation under CEQA to discuss a site visit and other potential measures to protect the cultural resources. They also requested a copy of the cultural resources assessment. PG&E responded on July 27, 2023 with access to the cultural resources reports.
California Valley Miwok Tribe 14807 Avenida Central La Grange, CA, 95329 Phone: (209) 931 - 4567 Fax: (209) 931-4333	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
California Valley Miwok Tribe AKA Sheep Rancheria of Me-Wuk Indians of CA, P.O. Box 395 West Point, CA, 95255 Phone: (209) 293 - 4179 l.ewilson@yahoo.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Chicken Ranch Rancheria of Me-Wuk Indians Lloyd Mathiesen, Chairperson P.O. Box 1159 Jamestown, CA, 95327 Phone: (209) 984 - 9066 Fax: (209) 984-9269 lmathiesen@crtribal.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Guidiville Indian Rancheria Donald Duncan, Chairperson P.O. Box 339 Talmage, CA, 95481 Phone: (707) 462 - 3682 Fax: (707) 462-9183 admin@guidiville.net	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.

Ione Band of Miwok Indians Sara Dutschke, Chairperson 9252 Bush Street Plymouth, CA, 95669 Phone: (209) 245 - 5800 consultation@ionemiwok.net	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Muwekma Ohlone Indian Tribe of the SF Bay Area Monica Arellano, Vice Chairwoman 20885 Redwood Road, Suite 232 Castro Valley, CA, 94546 Phone: (408) 205 - 9714 marellano@muwekma.org	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Nashville Enterprise Miwok-Maidu-Nishinam Tribe Cosme Valdez, Chairperson P.O. Box 580986 Elk Grove, CA, 95758-0017 Phone: (916) 429 - 8047 Fax: (916) 429-8047 valdezcome@comcast.net	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
North Valley Yokuts Tribe Katherine Perez, Chairperson P.O. Box 717 Linden, CA, 95236 Phone: (209) 887 - 3415 canutes@verizon.net	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
North Valley Yokuts Tribe Timothy Perez, P.O. Box 717 Linden, CA, 95236 Phone: (209) 662 - 2788 huskanam@gmail.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Tule River Indian Tribe Joey Garfield, Tribal Archaeologist P. O. Box 589 Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932 joey.garfield@tulerivertribensn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Tule River Indian Tribe Neil Peyron, Chairperson P.O. Box 589 Porterville, CA, 93258 Phone: (559) 781 - 4271 Fax: (559) 781-4610 neil.peyron@tulerivertribe-nsn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.

Tule River Indian Tribe Kerri Vera, Environmental Department P. O. Box 589 Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932 kerri.vera@tulerivertribe-nsn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
United Auburn Indian Community of the Auburn Rancheria Gene Whitehouse, Chairperson 10720 Indian Hill Road Auburn, CA, 95603 Phone: (530) 883 - 2390 Fax: (530) 883-2380 bguth@auburnrancheria.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Response received on March 7, 2023, from Anna Starkey. The tribe requested GIS shapefiles of the project area. PG&E responded on July 27, 2023, with access to the cultural resources reports and the GIS shapefiles.
Wilton Rancheria Steven Hutchason, THPO 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 Fax: (916) 863-6015 shutchason@wiltonrancheriansn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Wilton Rancheria Dahlton Brown, Director of Administration 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 dbrown@wiltonrancheria-nsn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.
Wilton Rancheria Jesus Tarango, Chairperson 9728 Kent Street Elk Grove, CA, 95624 Phone: (916) 683 - 6000 Fax: (916) 683-6015 jtarango@wiltonrancheria-nsn.gov	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023.

The Confederated Villages of Lisjan Corrina Gould, Chairperson 10926 Edes Avenue Oakland, CA, 94603 Phone: (510) 575 - 8408 cvltribe@gmail.com	Letter	2/8/2023	Sent contact letter describing project and records search results, request input about spiritual places or traditional values. Pending response as of February 22, 2023. Response received from Corrina Gould on March 7, 2023, with a request for a the NAHC results. PG&E responded on July 27, 2023 with access to the cultural resources reports and the NAHC results. Chairperson Gould responded via email on August 2, 2023, with no further information about the project location. They asked to be notified if there are any findings during construction, and reminded the construction team to remain vigilant during construction since the project is on their ancestorial land and unanticipated discoveries are possible.

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
[VAVANT]

COMMISSIONER
[VACANT]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

March 1, 2023

Sara Boomgaarden
Far Western

Via Email to: sara@farwestern.com

Re: PG&E NSJ 230kV (Addendum Area) (WO# 74000933, FW #3110) Project, San Joaquin County

Dear Ms. Boomgaarden:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Joaquin County
3/1/2023

Buena Vista Rancheria of Me-Wuk Indians
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200 — Me-Wuk
Sacramento, CA, 95811
Phone: (916) 491 - 0011
Fax: (916) 491-0012
rhonda@buenavistatribe.com

California Valley Miwok Tribe
14807 Avenida Central — Miwok
La Grange, CA, 95329
Phone: (209) 931 - 4567
Fax: (209) 931-4333

California Valley Miwok Tribe
AKA Sheep Rancheria of Me-Wuk Indians of CA,
P.O. Box 395 — Miwok
West Point, CA, 95255
Phone: (209) 293 - 4179
l.ewilson@yahoo.com

Chicken Ranch Rancheria of Me-Wuk Indians
Lloyd Mathiesen, Chairperson
P.O. Box 1159 — Me-Wuk
Jamestown, CA, 95327
Phone: (209) 984 - 9066
Fax: (209) 984-9269
lmathiesen@crtribal.com

Ione Band of Miwok Indians
Sara Dutschke, Chairperson
9252 Bush Street — Miwok
Plymouth, CA, 95669
Phone: (209) 245 - 5800
consultation@ionemiwok.net

Nashville Enterprise Miwok-Maidu-Nishinam Tribe
Cosme Valdez, Chairperson
P.O. Box 580986 — Miwok
Elk Grove, CA, 95758-0017
Phone: (916) 429 - 8047
Fax: (916) 429-8047
valdezcome@comcast.net

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 887 - 3415 — Yokut
canutes@verizon.net

North Valley Yokuts Tribe
Timothy Perez,
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 662 - 2788 — Yokut
huskanam@gmail.com

Tule River Indian Tribe
Kerri Vera, Environmental Department
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
kerri.vera@tulerivertribe-nsn.gov

Tule River Indian Tribe
Joey Garfield, Tribal Archaeologist
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
joey.garfield@tulerivertribe-nsn.gov

Tule River Indian Tribe
Neil Peyron, Chairperson
P.O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 781 - 4271
Fax: (559) 781-4610
neil.peyron@tulerivertribe-nsn.gov

United Auburn Indian Community of the Auburn Rancheria
Gene Whitehouse, Chairperson
10720 Indian Hill Road — Maidu
Auburn, CA, 95603 — Miwok
Phone: (530) 883 - 2390
Fax: (530) 883-2380
bguth@auburnrancheria.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed PG&E NSJ 230kV (Addendum Area) (WO# 74000933, FW #3110) Project, San Joaquin County.

Wilton Rancheria
Dahlton Brown, Director of Administration
9728 Kent Street Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
dbrown@wiltonrancheria-nsn.gov

Wilton Rancheria
Jesus Tarango, Chairperson
9728 Kent Street Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 683-6015
jtarango@wiltonrancheria-nsn.gov

Wilton Rancheria
Steven Hutchason, THPO
9728 Kent Street Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 863-6015
shutchason@wiltonrancheria-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed PG&E NSJ 230kV (Addendum Area) (WO# 74000933, FW #3110) Project, San Joaquin County.

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

February 8, 2023

Sheep Rancheria of Me-Wuk Indians of CA
P.O. Box 395
West Point, CA 95255

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Sir or Madam,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Public

Pacific Gas and Electric Company

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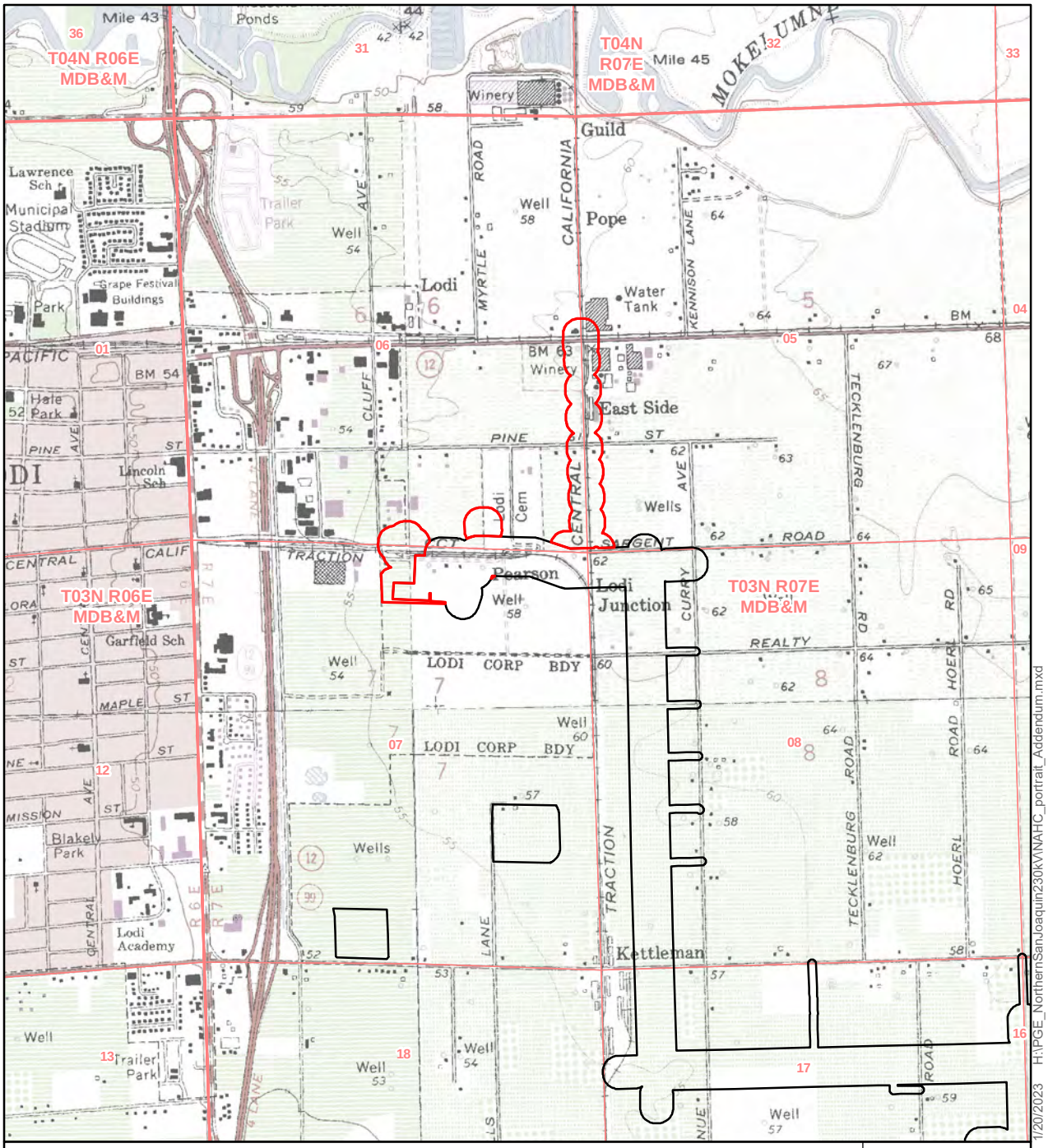
Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public



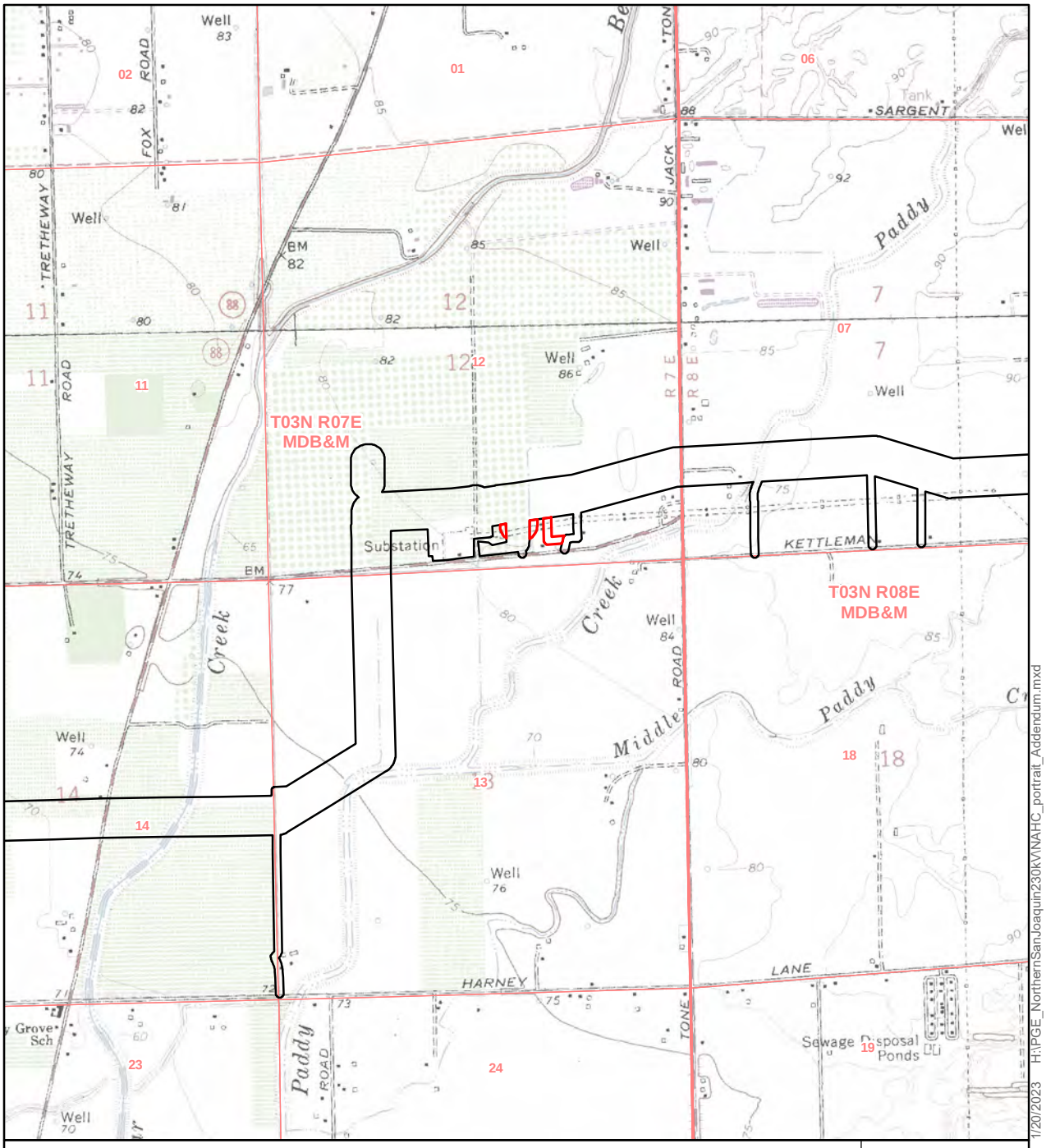
Lockeford (1980), Lodi North (1978), Lodi South (1960) and Waterloo (1972, r. 1978), California 7.5-minute Quadrangles
T3N R7E Sect. 5-7, MDB&M
San Joaquin County, California

Additional Survey Area
Original Survey Area

Kilometers
0 0.5 1
0 0.25 0.5
Miles

1:24,000

1/20/2023 H:\PGE_NorthernSanJoaquin230kV\NAHC_portrait_Addendum.mxd



Waterloo, California 7.5-minute Quadrangle, 1972, r. 1978
T3N R7E Sect. 12, MDB&M
San Joaquin County, California

Additional Survey Area
Original Survey Area

Kilometers
0 0.5 1
0 0.25 0.5
Miles

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1/20/2023 H:\PGE_NorthernSanJoaquin230kV\NAHC_portrait_Addendum.mxd

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February 8, 2023

California Valley Miwok Tribe
14807 Avenida Central
La Grange, CA 95329

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Sir or Madam,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Public

Pacific Gas and Electric Company

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Senior Consulting Scientist
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Environmental Planning and Permitting

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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Environmental Planning and Permitting

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February 8, 2023

Ms. Monica Arellano
Muwekma Ohlone Indian Tribe of the SF Bay Area
20885 Redwood Road, Suite 232
Castro Valley, CA 94546

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Arellano,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Public

Pacific Gas and Electric Company

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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February 8, 2023

Mr. Dahlton Brown
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Brown,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Starla Lane
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Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

Starla Lane
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February 8, 2023

Chairperson Donald Duncan
Guidiville Indian Rancheria
P.O. Box 339
Talmage, CA 95481

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Chairperson Duncan,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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Mailing Address
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Email: s3lr@pge.com

February 8, 2023

Ms. Sara Dutschke
Ione Band of Miwok Indians
9252 Bush Street
Plymouth, CA 95669

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Dutschke,

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Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

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February 8, 2023

Mr. Joey Garfield
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Garfield,

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Enclosure (map)

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February 8, 2023

Chairperson Corrina Gould
The Confederated Villages of Lisjan
10926 Edes Avenue
Oakland, CA 94603

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Chairperson Gould,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

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Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

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- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
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PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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February 8, 2023

THPO Steven Hutchason
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear THPO Hutchason,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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February 8, 2023

Mr. Lloyd Mathiesen
Chicken Ranch Rancheria of Me-Wuk Indians
P.O. Box 1159
Jamestown, CA 95327

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Mathiesen,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Public

Pacific Gas and Electric Company

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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February 8, 2023

Ms. Rhonda Morningstar Pope
Buena Vista Rancheria
1418 20th Street, Suite 200
Sacramento, CA 95811

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Morningstar Pope,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Public

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

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February 8, 2023

Mr. Timothy Perez
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Perez,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

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Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

Starla Lane
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Cultural Resources
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February 8, 2023

Ms. Katherine Perez
North Valley Yokuts Tribe
P.O. Box 717
Linden, CA 95236

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Perez,

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Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

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February 8, 2023

Mr. Neil Peyron
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Peyron,

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Pacific Gas & Electric Company

Enclosure (map)

Public

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February 8, 2023

Chairperson Jesus G. Tarango Jr.
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Chairperson Tarango Jr.,

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Enclosure (map)

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February 8, 2023

Chairperson Cosme A. Valdez
Nashville Enterprise Miwok-Maidu-Nishinam Tribe
P.O. Box 580986
Elk Grove, CA 95758

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Chairperson Valdez,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

An initial search of the Sacred Lands file by the Native American Heritage Commission of the original project area yielded no Native American resources in July 2021. The search of the Sacred Lands file of the Addendum Area is still pending response as of February 8, 2023. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified five previously recorded historic-era resources, including two railroad segments, historic trees, State Route 12, and telegraph poles, intersecting the proposed addendum alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western on November 21, 2022, and three new archaeological resources were identified, including two historic-era sites and one historic-era isolate.

Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

February 8, 2023

Ms. Kerri Vera
Tule River Indian Tribe
P.O. Box 589
Porterville, CA 93258

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Ms. Vera,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

An initial search of the Sacred Lands file by the Native American Heritage Commission of the original project area yielded no Native American resources in July 2021. The search of the Sacred Lands file of the Addendum Area is still pending response as of February 8, 2023. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified five previously recorded historic-era resources, including two railroad segments, historic trees, State Route 12, and telegraph poles, intersecting the proposed addendum alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western on November 21, 2022, and three new archaeological resources were identified, including two historic-era sites and one historic-era isolate.

Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

February 8, 2023

Mr. Gene Whitehouse
United Auburn Indian Community of Auburn Rancheria
10720 Indian Hill Road
Auburn, CA 95603

Re: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project, San Joaquin County, California

Dear Mr. Whitehouse,

Pacific Gas & Electric (PG&E) proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. You may have been informed of this project, most recently in May 2021 when PG&E proposed the original project locations. The enclosed map shows the addendum project area. The addendum workspace covers the following work added to the project: modify the existing 60 kV line (pole replacements and reframing), extension of the 12kV line, and to modify a drainage ditch into a retention basin.

A cultural resources assessment which includes background research, consultation, archival research, and survey is currently being conducted. Far Western Anthropological Research Group, Inc. (Far Western) has been retained as the archaeological consultant to perform this work and to prepare cultural resources documentation that complies with the requirements of Section 106 of the National Historic Preservation Act and its implementing regulations (36 CFR Part 800).

An initial search of the Sacred Lands file by the Native American Heritage Commission of the original project area yielded no Native American resources in July 2021. The search of the Sacred Lands file of the Addendum Area is still pending response as of February 8, 2023. Archival research included an internal records search of the area, which includes all of the current files from the Central California Information Center (subscription file date October 30, 2018). The search included the proposed project area and a one-quarter-mile radius records search buffer. The search and literature review identified five previously recorded historic-era resources, including two railroad segments, historic trees, State Route 12, and telegraph poles, intersecting the proposed addendum alignment. No precontact sites were identified within the records search radius. A pedestrian survey was conducted by Far Western on November 21, 2022, and three new archaeological resources were identified, including two historic-era sites and one historic-era isolate.

Public

Pacific Gas and Electric Company

Starla Lane
Senior Consulting Scientist
Cultural Resources
Environmental Planning and Permitting

Mailing Address
300 Lakeside Drive
Oakland, CA 94612
Mobile: 925-270-5998
Email: s3lr@pge.com

In order to verify that all potential resources of concern to Native American communities are identified and considered in the planning and implementation of the project, we respectfully request any specific information you can provide on the location and nature of resources that may be located within or immediately adjacent to the project area. Specifically, we are seeking your input on the nature and location of the following types of resources:

- Prehistoric archaeological sites and features;
- Places that are of cultural significance to you; and
- Historic-era resources.

PG&E recognizes that the nature and location of these resources is sensitive information and will be treated accordingly. Your assistance in identifying such resources so they may be avoided and protected whenever feasible is greatly appreciated. We sincerely request you respond within 30 days of the receipt of this letter. A cultural resources specialist will be following up this letter with a phone call to you at the number listed by the NAHC within ten (10) business days.

If you have any information, questions or concerns regarding this project please feel free to call or email me. I look forward to discussing the proposed project with you.

Sincerely,



Starla Lane
Senior Consulting Scientist
Environmental Management
Pacific Gas & Electric Company

Enclosure (map)

Public

Taylor, Colleen

From: Courtney Higgins <courtney@farwestern.com>
Sent: Wednesday, August 16, 2023 12:22 PM
To: Taylor, Colleen; Lane, Starla
Subject: [EXTERNAL] Fwd: Northern San Joaquin 230kV Transmission Project

Sent from my Verizon, Samsung Galaxy smartphone
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From: Courtney Higgins
Sent: Monday, July 31, 2023 12:10:42 PM
To: Lane, Starla <S3LR@pge.com>; Anna Starkey <astarkey@auburnrancheria.com>
Subject: RE: Northern San Joaquin 230kV Transmission Project

Good afternoon Ms. Starkey,

Here is a link to the documents. If you have any issues accessing the documents, please let me know.

20230731 - FINAL NSJ 230kV Addendum

Thanks,
Courtney

Courtney Higgins, M.A., RPA (she/her)
Project Manager/ Senior Archaeologist
Far Western Anthropological Research Group, Inc.
Main Office | 2727 Del Rio Place, Davis, CA 95618
Office: 530.756.3941 ext 105 | Cell: 530.601.1660
courtney@farwestern.com | www.farwestern.com

From: Lane, Starla <S3LR@pge.com>
Sent: Thursday, July 27, 2023 4:25 PM
To: Anna Starkey <astarkey@auburnrancheria.com>
Cc: Courtney Higgins <courtney@farwestern.com>
Subject: RE: Northern San Joaquin 230kV Transmission Project

Hello Ms. Starkey,

Thank you for responding to PG&E's inquiry regarding the Northern San Joaquin 230 kV Transmission Project. I have included PG&E's cultural resource consultants (Far Western) on this response as they will be finalizing the cultural resource assessments for the project in the coming days.

Courtney: Could you please provide Mr. Galvan with the following:

- 2021 Archaeological Survey Report
- 2023 Addendum Archaeological Survey Report

- Shapefiles depicting the area of potential impact

Please do not hesitate to let either of us know if there are additional data sets that would assist the Tribe's review.

Sincerely,

Starla
Starla Lane | Senior Consulting Scientist - Cultural Resources
Pacific Gas and Electric Company
925.270.5998 cell | starla.lane@pge.com

From: Anna Starkey <astarkey@auburnrancheria.com>
Sent: Tuesday, March 7, 2023 4:06 PM
To: Lane, Starla <S3LR@pge.com>
Subject: Northern San Joaquin 230kV Transmission Project

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Dear Ms. Lane,
On behalf of the United Auburn Indian Community, Tribal Historic Preservation Department, thank you for the notification for the project referenced above. Can you provide me with GIS shape files of the project so I can more accurately review it in our THRIS database?

Thank you,
Anna

UAIC PRESERVATION

Anna M. Starkey, M.A., RPA
Cultural Regulatory Specialist
Tribal Historic Preservation Department| UAIC
10720 Indian Hill Road
Auburn, CA 95603
Direct Line: (916) 251-1565 | Cell: (530) 863-6503
astarkey@auburnrancheria.com |www.auburnrancheria.com

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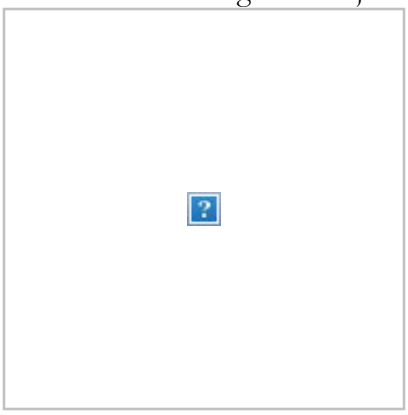
You can read about PG&E's data privacy practices here or at PGE.com/privacy.

From:	Corrina Gould
To:	Courtney Higgins
Cc:	Lane, Starla
Subject:	Re: 230 kV Transmission Project, San Joaquin County
Date:	Wednesday, August 2, 2023 2:09:31 PM
Attachments:	image001.png image002.png

Thank you for reaching out to the Tribe about the proposed project. At this time the Tribe has no further information to supply about the proposed site for this plan. As always we encourage developers in our traditional territories to remain cognizant of the facts that our tribal people lived all over the Bay Area and because of colonization and genocidal practices that reached into the late 19th century and early 20thCentury,it is not always possible to know for certain if you may find cultural resources or burials at sites where you anticipate ground disturbance. The Tribe wishes to be contacted if there are any findings.

'Uni (Respectfully),

Corrina Gould, Tribal Chair
Confederated Villages of Lisjan Nation



On Mon, Jul 31, 2023 at 12:10 PM Courtney Higgins <courtney@farwestern.com> wrote:

> Good afternoon Chairwoman Gould,
>
> Here is a link to the documents. If you have any issues accessing the documents, please let me know.
>
> 

20230731 - FINAL NSJ 230kV Addendum

Thanks,
Courtney



Courtney Higgins, M.A., RPA (she/her)

Project Manager/ Senior Archaeologist

Far Western Anthropological Research Group, Inc.

Main Office | 2727 Del Rio Place, Davis, CA 95618

Office: 530.756.3941 ext 105 | Cell: 530.601.1660

courtney@farwestern.com | www.farwestern.com

From: Lane, Starla <S3LR@pge.com>
Sent: Thursday, July 27, 2023 4:29 PM
To: Corrina Gould <cvltribe@gmail.com>
Cc: Courtney Higgins <courtney@farwestern.com>
Subject: RE: 230 kV Transmission Project, San Joaquin County

Hello Chairwoman Gould,

Thank you for responding to PG&E's inquiry regarding the Northern San Joaquin 230 kV Transmission Project. Attached is the response from the NAHC PG&E received in March of 2023. I have included PG&E's cultural resource consultants (Far Western) on this response as they will be finalizing the cultural resource assessments for the project in the coming days.

Courtney: Could you please provide Chairwoman Gould with the following:

- 2021 Archaeological Survey Report

- 2023 Addendum Archaeological Survey Report
- Shapefiles depicting the area of potential impact

Please do not hesitate to let either of us know if there are additional data sets that would assist the Tribe's review.

Sincerely,

Starla

Starla Lane | Senior Consulting Scientist - Cultural Resources

Pacific Gas and Electric Company
925.270.5998 cell | starla.lane@pge.com

From: Corrina Gould <cvltribe@gmail.com>
Sent: Tuesday, March 7, 2023 1:14 PM
To: Lane, Starla <S3LR@pge.com>
Subject: 230 kV Transmission Project, San Joaquin County

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Hello,

Thank you for your letter. Can you please send additional information regarding the site? Can you send the Tribe the Sacred Lands File search at the Native American Heritage Commission with Negative or Positive findings? Once this information is available, we can move forward with possible consultation.

'Uni (Respectfully),

Corrina Gould, Tribal Chair

Confederated Villages of Lisjan Nation

You can read about PG&E's data privacy practices here or at PGE.com/privacy.

Taylor, Colleen

From: Courtney Higgins <courtney@farwestern.com>
Sent: Wednesday, August 16, 2023 12:22 PM
To: Taylor, Colleen; Lane, Starla
Subject: [EXTERNAL] Fwd: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project San Joaquin County, California

Sent from my Verizon, Samsung Galaxy smartphone
Get Outlook for Android

From: Courtney Higgins
Sent: Monday, July 31, 2023 12:11:00 PM
To: Lane, Starla <S3LR@pge.com>; Jesus "Jesse" Galvan <jesus@bvtribe.com>
Cc: Ivan Senock <ivan@bvtribe.com>; Tribal Historic Preservation Office <thpo@bvtribe.com>
Subject: RE: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project San Joaquin County, California

Good afternoon Mr. Galvan

Here is a link to the documents. If you have any issues accessing the documents, please let me know.

20230731 - FINAL NSJ 230kV Addendum

Thanks,
Courtney

Courtney Higgins, M.A., RPA (she/her)
Project Manager/ Senior Archaeologist
Far Western Anthropological Research Group, Inc.
Main Office | 2727 Del Rio Place, Davis, CA 95618
Office: 530.756.3941 ext 105 | Cell: 530.601.1660
courtney@farwestern.com | www.farwestern.com

From: Lane, Starla <S3LR@pge.com>
Sent: Thursday, July 27, 2023 4:23 PM
To: Jesus "Jesse" Galvan <jesus@bvtribe.com>
Cc: Ivan Senock <ivan@bvtribe.com>; Tribal Historic Preservation Office <thpo@bvtribe.com>; Courtney Higgins <courtney@farwestern.com>
Subject: RE: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project San Joaquin County, California

Hello Mr. Galvan,

Thank you for responding to PG&E's inquiry regarding the Northern San Joaquin 230 kV Transmission Project. I will forward the Tribe's request for formal government-to-government consultation to the CPUC, who is the CEQA lead agency. I have included PG&E's cultural resource consultants (Far Western) on this response as they will be finalizing the cultural resource assessments for the project in the coming days.

Courtney: Could you please provide Mr. Galvan with the following:

- 2021 Archaeological Survey Report
- 2023 Addendum Archaeological Survey Report
- Shapefiles depicting the area of potential impact

Please do not hesitate to let either of us know if there are additional data sets that would assist the Tribe's review.

Sincerely,

Starla
Starla Lane | Senior Consulting Scientist - Cultural Resources
Pacific Gas and Electric Company
925.270.5998 cell | starla.lane@pge.com

From: Jesus "Jesse" Galvan <jesus@bvtribe.com>
Sent: Friday, March 17, 2023 11:25 AM
To: Lane, Starla <S3LR@pge.com>
Cc: Ivan Senock <ivan@bvtribe.com>; Tribal Historic Preservation Office <thpo@bvtribe.com>
Subject: Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project San Joaquin County, California

CAUTION: EXTERNAL SENDER!

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March 17, 2023

Starla Lane

300 lakeside drive Oakland, CA 94612

RE: Formal Request for Tribal Consultation

Dear Starla Lane,

Thank you for the notification Pacific Gas & Electric Northern San Joaquin 230 kV Transmission Project San Joaquin County, California. The notification was received by this office on February 15, 2023. We appreciate your effort to contact us and wish to respond. The Buena Vista Rancheria (BVR) of Me-Wuk Indians has interest in the project.

After review of the notification and examination of the project location information, it is determined BVR requests formal government-to-government consultation under the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code section 21080.3.1 subdivisions (b), (d) and (e)) to discuss a site visit and other measure to ensure any cultural resources are protected.

Additionally, BVR would like to receive any cultural resources assessments or other assessments that have been completed on all or part of the project's potential "area of project effect" (APE).

Please respond with confirmation of receipt of this request. BVR expects to begin consultation within 30 days of your receipt of this letter.

Respectfully,

Ivan Senock
THPO/Cultural Resources Director
Buena Vista Rancheria of Me-Wuk Indians

Jesse Galvan
Cultural Hertiage Specialist
Buena Vista Rancheria of Me-Wuk Indians (Tribe)
4650 Coal Mine Rd,
Ione, CA 95640
Office: (916) 491-0011
Fax: (916) 491- 0012
Cell (209) 507-3603
jesus@bvtribe.com

You can read about PG&E's data privacy practices here or at PGE.com/privacy.

Taylor, Colleen

From: Courtney Higgins <courtney@farwestern.com>
Sent: Wednesday, August 16, 2023 12:23 PM
To: Taylor, Colleen; Lane, Starla
Subject: [EXTERNAL] Fwd: PG&E Northern San Joaquin 230kV Transmission Project

Sent from my Verizon, Samsung Galaxy smartphone
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From: Courtney Higgins
Sent: Monday, July 31, 2023 12:09:41 PM
To: Lane, Starla <S3LR@pge.com>; shutchason@wiltonrancheria-nsn.gov <shutchason@wiltonrancheria-nsn.gov>
Subject: RE: PG&E Northern San Joaquin 230kV Transmission Project

Good afternoon Mr. Hutchason

Here is a link to the documents. If you have any issues accessing the documents, please let me know.

20230731 - FINAL NSJ 230kV Addendum

Thanks,
Courtney

Courtney Higgins, M.A., RPA (she/her)
Project Manager/ Senior Archaeologist
Far Western Anthropological Research Group, Inc.
Main Office | 2727 Del Rio Place, Davis, CA 95618
Office: 530.756.3941 ext 105 | Cell: 530.601.1660
courtney@farwestern.com | www.farwestern.com

From: Lane, Starla <S3LR@pge.com>
Sent: Thursday, July 27, 2023 5:06 PM
To: shutchason@wiltonrancheria-nsn.gov
Cc: Courtney Higgins <courtney@farwestern.com>
Subject: PG&E Northern San Joaquin 230kV Transmission Project

Good afternoon Mr. Hutchason,

In February of this year PG&E sent letters requesting input on the Northern San Joaquin 230kV Transmission Project. Although the Tribe did not respond to the 2023 outreach letters, the Tribe had expressed interest during prior outreach efforts, requesting cultural resource studies when available. The project proposes to construct a new 230 kV transmission line that will connect the Lockeford and Industrial Substations and loop them into the Brighton-Bellota 230 kV transmission line in San Joaquin County, California. The project will bring new transmission infrastructure to northern San Joaquin County to provide increased reliability and efficiency for more than 50,000 households and businesses in the region including Stockton, Lodi, Lockeford, Victor, Acampo and Thornton. The new infrastructure will include two new 230 kV high-capacity transmission lines to connect PG&E's existing Lockeford and 8 Mile substations with Lodi

Electric Utility's existing Fred M. Reid Industrial Substation, along with upgrades and potential expansions of these substations. A cultural resources assessment which includes background research, consultation, archival research, and survey has been completed by PG&E's cultural resource consultants (Far Western). A search of the Sacred Lands file by the Native American Heritage Commission was negative and no Native American archaeological resources were identified during the surveys.

I have Courtney Higgins of Far Western on this response, as they will be finalizing the cultural resource assessments for the project in the coming days.

Courtney: Could you please provide Mr. Hutchason with the following:

- 2021 Archaeological Survey Report
- 2023 Addendum Archaeological Survey Report
- Shapefiles depicting the area of potential impact

Please do not hesitate to let either of us know if there are additional data sets that would assist the Tribe's review.

Sincerely,

Starla
Starla Lane | Senior Consulting Scientist - Cultural Resources
Pacific Gas and Electric Company
925.270.5998 cell | starla.lane@pge.com

You can read about PG&E's data privacy practices here or at PGE.com/privacy.

Appendix E
Energy Use Detail

Table 1
Project Energy Impact Analysis
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Consumption

Construction Component	Fuel Type	Fuel Consumption (gallons)
PG&E 230 kV Transmission Lines Construction	Gasoline	9,181
	Diesel	58,054
	Jet Fuel	11,101
PG&E Lockeford Substation Expansion	Gasoline	7,319
	Diesel	124,371
PG&E 12 kV Service Line Extension (to PG&E Thurman Switching Station)	Gasoline	252
	Diesel	2,810
PG&E Remote End Substations Construction	Gasoline	561
	Diesel	805
PG&E Thurman Switching Station Construction	Gasoline	2,345
	Diesel	81,781
PG&E Microwave Tower Construction (within PG&E Thurman Switching Station)	Gasoline	936
	Diesel	9,168
PG&E 60 kV Power Lines Reconfiguration	Gasoline	1,458
	Diesel	3,928
LEU Construction [a]	Gasoline	3,164
	Diesel	98,640
Total	Gasoline	25,215
	Diesel	379,556
	Jet Fuel	11,101

Operation and Maintenance Consumption

Operational Component	Fuel Type	Fuel Consumption (gallons)
PG&E Operation and Maintenance	Gasoline	186
	Diesel	774
	Jet Fuel	355
LEU Operation and Maintenance [a]	Diesel	357
Total	Gasoline	186
	Diesel	1,131
	Jet Fuel	355

Note:
[a] Emissions for LEU Construction and Operation were obtained from City of Lodi, 2022. Refer to Appendix B1b.

Portion of Statewide Fuel Resources Used for Project

Project Phase	Fuel Type	Consumed by Project Construction (gallons) [a]	Statewide Fuel Resources (gallons) [b]	Consumed by Project (%)
Construction	Gasoline	25,215	12,875,755,200	0.000%
	Diesel	379,556	4,297,076,691	0.009%
	Jet Fuel	11,101	3,899,952,000	0.000%
Operation/Maintenance	Gasoline	186	12,875,755,200	0.000%
	Diesel	1,131	4,297,076,691	0.000%
	Jet Fuel	355	3,899,952,000	0.000%

Notes:

[a] Total gallons of fuel consumed for project construction represents the total gasoline from the employee vehicle trips and the total diesel from the construction equipment and vendor delivery truck trips during the construction phases.

[b] Statewide Fuel Resources obtained from the California Energy Commission's August 1, 2021 - July 31, 2022 Weekly Fuels Watch Report (https://ww2.energy.ca.gov/almanac/petroleum_data/fuels_watch/index_cms.html), considering only CARB Reformulated Gasoline, all Diesel types, and all Jet Fuel types. A conservative estimate of annual statewide fuel resources consumed is assumed to be equivalent to 100% of annual production/stocks consumed within the state.

Portion of San Joaquin County Energy Consumption Used for Project Operation/Maintenance (O&M)

Energy Type	Consumed by Project Operation [a]		San Joaquin County Consumption [b, c]		Consumed by Project (%)
	Value	Units	Value	Units	
Natural Gas	2,447,210	kBtu/yr	183,950,000	therms/yr	0.013%
Electricity	1,098,260	kWh/yr	5,736,910,000	kWh/yr	0.019%

Notes:

[a] Values taken directly from the CalEEMod Report provided by the City of Lodi to PG&E in 2022.

[b] San Joaquin County Consumption obtained from the California Energy Commission's 'Gas Consumption by County' database for 2020 (http://www.ecdms.energy.ca.gov/gasbycounty.aspx).

[c] San Joaquin County Electricity Consumption obtained from the California Energy Commission's 'Electricity Consumption by County' database for 2020 (http://www.ecdms.energy.ca.gov/elecbycounty.aspx).

Table 2
PG&E Overhead Transmission Line - 230kV Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Daily Equipment Quantity/Vehicle Trips	Number of Days Used	Hours per Day	Miles per Day/ Vehicle [b]	Equipment Diesel Consumption Rate (gallons/hour) [c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)	Aircraft Jet Fuel Consumption Rate (kg/LTO) [g]	Aircraft Jet Fuel Consumption (gallons) [h]
General Construction														
street sweeper	Heavy-duty Diesel	NA	NA	1	300	NA	50	-	-	7.51	1,998.45	-	-	-
Jet A Fuel Truck	Heavy-duty Diesel	NA	NA	1	50	NA	50	-	-	7.51	333.07	-	-	-
Mobilization: Thurman/Lodi yard and Lockeford yards.														
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	2	10	NA	60	-	-	7.51	159.88	-	-	-
Water Truck	Heavy-duty Diesel	NA	NA	2	10	NA	60	-	-	7.51	159.88	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	10	8	NA	1.60	255.43	-	-	-	-	-
Road Grader	Graders	187	0.41	1	10	8	NA	4.55	363.77	-	-	-	-	-
Drum Type Compactor	Plate Compactors	8	0.43	1	10	8	NA	0.20	15.76	-	-	-	-	-
10k LB Forklift	Forklifts	89	0.2	2	150	5	NA	0.86	1,283.13	-	-	-	-	-
30 Ton Crane	Cranes	231	0.29	2	150	5	NA	3.26	4,896.02	-	-	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	10	NA	15	-	-	28.20	-	10.64	-	-
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	NA	NA	1	300	NA	15	-	-	28.20	-	159.57	-	-
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	10	NA	2	-	-	7.51	2.66	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	300	NA	25	-	-	32.50	-	1,846.42	-	-
Survey (Construction Staking)														
Pick-up Truck	Light-duty Truck	NA	NA	2	24	NA	25	-	-	28.20	-	42.55	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	24	NA	25	-	-	32.50	-	110.79	-	-
Soil Borings														
Pick-up Truck	Light-duty Truck	NA	NA	1	24	NA	25	-	-	28.20	-	21.28	-	-
Drill Rig	Bore/Drill Rigs	221	0.5	1	24	8	NA	5.40	1,036.86	-	-	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	3	24	NA	25	-	-	32.50	-	55.39	-	-
ROW Clearing														
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	45	-	-	7.51	89.93	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	1.60	191.57	-	-	-	-	-
Road Grader	Graders	187	0.41	1	15	5	NA	4.55	341.04	-	-	-	-	-
Boom truck	Cranes	231	0.29	1	15	5	NA	3.26	244.80	-	-	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	30	-	-	28.20	-	31.91	-	-
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	15	NA	30	-	-	7.51	59.95	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	15	NA	25	-	-	32.50	-	69.24	-	-
Roads and Access														
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	45	-	-	7.51	89.93	-	-	-
Water Truck	Heavy-duty Diesel	NA	NA	1	300	NA	60	-	-	7.51	2,398.14	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	1.60	191.57	-	-	-	-	-
Road Grader	Graders	187	0.41	1	15	5	NA	4.55	341.04	-	-	-	-	-
Drum Type Compactor	Plate Compactors	8	0.43	1	15	5	NA	0.20	14.77	-	-	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	30	-	-	28.20	-	31.91	-	-
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	15	NA	30	-	-	7.51	59.95	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	15	NA	25	-	-	32.50	-	69.24	-	-
Guard Structures														
Auger Truck	Bore/Drill Rigs	221	0.5	1	25	8	NA	5.40	1,080.06	-	-	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	25	8	NA	1.60	319.28	-	-	-	-	-
boom truck	Cranes	231	0.29	1	25	8	NA	3.26	652.80	-	-	-	-	-
bucket truck	Heavy-duty Diesel	NA	NA	1	25	NA	1	-	-	7.51	3.33	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	25	NA	20	-	-	28.20	-	35.46	-	-
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	25	NA	15	-	-	7.51	49.96	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	25	NA	25	-	-	32.50	-	96.17	-	-
Foundations Tangents														
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	2	60	NA	50	-	-	7.51	799.38	-	-	-
Backhoe - Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	60	5	NA	1.60	957.85	-	-	-	-	-
Drill Rig/Auger Truck	Bore/Drill Rigs	221	0.5	2	60	5	NA	5.40	3,240.19	-	-	-	-	-
Truck Cranes - 20 - 30 Ton	Cranes	231	0.29	2	60	5	NA	3.26	1,958.41	-	-	-	-	-
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	60	NA	25	-	-	7.51	399.69	-	-	-
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	60	NA	25	-	-	28.20	-	106.38	-	-
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	NA	NA	2	60	NA	25	-	-	7.51	399.69	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	60	NA	25	-	-	28.20	-	106.38	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	7	60	NA	25	-	-	32.50	-	323.12	-	-
Foundations Dead Ends														
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	75	-	-	7.51	399.69	-	-	-
Backhoe - Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	40	5	NA	1.60	638.56	-	-	-	-	-
Drill Rig/Auger Truck	Bore/Drill Rigs	221	0.5	2	40	5	NA	5.40	2,160.13	-	-	-	-	-
Truck Cranes - 20 - 30 Ton	Cranes	231	0.29	2	40	5	NA	3.26	1,305.61	-	-	-	-	-
Truck - Framer (Crew Pick Up)	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92	-	-
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92	-	-
10 Cu Concrete Mixer Truck	Heavy-duty Diesel	NA	NA	2	40	NA	75	-	-	7.51	799.38	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	6	40	NA	25	-	-	32.50	-	184.64	-	-

Table 2
PG&E Overhead Transmission Line - 230kV Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Daily Equipment Quantity/Vehicle Trips	Number of Days Used	Hours per Day	Miles per Day/ Vehicle [b]	Equipment Diesel Consumption Rate (gallons/hour) [c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)	Aircraft Jet Fuel Consumption Rate (kg/LTO) [g]	Aircraft Jet Fuel Consumption (gallons) [h]
Engineered Stee Pole Hauling, Assembly, Erection Tangents														
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	50	NA	25	-	-	28.20	-	88.65	-	-
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	50	NA	25	-	-	28.20	-	88.65	-	-
Compressor Trailer	air compressors	78	0.48	2	50	5	NA	1.02	510.16	-	-	-	-	-
All Terrain Crane - 180 Ton	Cranes	231	0.29	2	50	5	NA	3.26	1,632.01	-	-	-	-	-
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	50	NA	25	-	-	7.51	333.07	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	7	50	NA	25	-	-	32.50	-	269.27	-	-
Engineered Steel Pole Hauling, Assembly & Erection Dead-Ends														
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	50	NA	25	-	-	28.20	-	88.65	-	-
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	2	50	NA	25	-	-	28.20	-	88.65	-	-
Compressor Trailer	air compressors	78	0.48	2	50	5	NA	1.02	510.16	-	-	-	-	-
All Terrain Crane - 180 Ton	Cranes	231	0.29	2	50	5	NA	3.26	1,632.01	-	-	-	-	-
Truck - 40 'flat trailer	Heavy-duty Diesel	NA	NA	2	50	NA	25	-	-	7.51	333.07	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	50	NA	25	-	-	32.50	-	307.74	-	-
Conductor Installation + OPGW, pull and sag and tension														
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck	NA	NA	3	100	NA	25	-	-	28.20	-	265.95	-	-
reel trailer	Heavy-duty Diesel	NA	NA	2	100	NA	25	-	-	7.51	666.15	-	-	-
1 Ton Crew Cab Flat Bed	Light-duty Truck	NA	NA	3	100	NA	25	-	-	28.20	-	265.95	-	-
30 Ton Manitex	Cranes	231	0.29	4	100	5	NA	3.26	6,528.03	-	-	-	-	-
22 Ton Manitex	Cranes	231	0.29	1	100	5	NA	3.26	1,632.01	-	-	-	-	-
20,000 lbs, Fork Lift	Forklifts	89	0.2	2	100	5	NA	0.86	855.42	-	-	-	-	-
580 Case Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	100	5	NA	1.60	1,596.41	-	-	-	-	-
sock line puller	Other Construction Equipment	172	0.42	2	100	5	NA	3.26	3,261.04	-	-	-	-	-
4 Drum rope Puller	Other Construction Equipment	172	0.42	1	100	5	NA	3.26	1,630.52	-	-	-	-	-
60,000 lbs Puller	Other Construction Equipment	172	0.42	2	100	5	NA	3.26	3,261.04	-	-	-	-	-
Sag Cat Winch	Other Construction Equipment	172	0.42	1	100	5	NA	3.26	1,630.52	-	-	-	-	-
D8 Cat	Tractors/Loaders/Backhoes	97	0.37	1	100	5	NA	1.60	798.21	-	-	-	-	-
Hughes 500 Helicopter	Helicopter	Heli	NA	1	50	5	NA	-	-	-	-	-	134.45	11,100.56
Fuel Helicopter Support	Heavy-duty Diesel	NA	NA	1	100	NA	50	-	-	7.51	666.15	-	-	-
Low boy Truck and Trailer	Heavy-duty Diesel	NA	NA	1	100	NA	25	-	-	7.51	333.07	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	18	100	NA	25	-	-	32.50	-	1,384.82	-	-
Restoration														
Light-duty Truck	Light-duty Truck	NA	NA	2	15	NA	25	-	-	28.20	-	26.59	-	-
Road Grader	Graders	187	0.41	1	15	6	NA	4.55	409.24	-	-	-	-	-
Backhoe and Trailer	Tractors/Loaders/Backhoes	97	0.37	1	15	6	NA	1.60	143.68	-	-	-	-	-
Other														
Material Haul Trucks (10 trucks, used first 60 days of projects	Light-duty Truck	NA	NA	10	60	NA	75	-	-	28.20	-	1,595.68	-	-
Inspector Vehicles (Civil, Structural, Wire)	Light-duty Truck	NA	NA	3	150	NA	75	-	-	28.20	-	1,196.76	-	-
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									58,054					
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												9,181		
Total Jet Fuel Use for Construction Aircraft (gallons)														11,101

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
[b] Helicopter operation assumes 1 LTO/hr, twin medium lift helicopter.
[c] Fuel consumption rate for construction equipment calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[d] Diesel consumption rate was not available for an air compressor with a 78 hp rating, so the rate for a 50 hp rating was used instead.
[e] Fuel efficiency for construction vehicles calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[f] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).
[g] Fuel consumption rate for aircraft taken from Table 6-12 of the *Year 2011 Gulfwide Emission Inventory Study* , which was prepared by the U.S. Department of the Interior, Bureau of Ocean Energy Management (BOEM), Gulf of Mexico OCS Region (BOEM, 2014).
[h] Used the following factors to estimate the aircraft jet fuel consumption:

Jet Fuel Density (kg/L):	0.80
Volumetric Conversion (L/gal):	3.785

Table 3
PG&E Lockeford Substation Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction: The project will be constructed in phases 1 -5												
Water Truck	Heavy-duty Diesel	NA	NA	1	450	NA	50	-	-	7.51	2,997.67	-
Street Sweeper	Heavy-duty Diesel	NA	NA	1	450	NA	50	-	-	7.51	2,997.67	-
Phase 1: Civil Site Preparation												
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Office Trailer	Generator sets	84	0.74	1	20	8	NA	1.40	223.40	-	-	-
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	4.58	1,464.89	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	-	-	7.51	1,438.88	-
Compactor / Roller	Rollers	80	0.38	4	20	4	NA	1.69	542.19	-	-	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	-	-	32.50	-	153.87
Phase 1a: Exterior Walls, Final Grading, and Paving												-
Concrete Truck	heavy-duty diesel	NA	NA	80	20	NA	90	-	-	7.51	19,185.11	-
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Office Trailer	Generator sets	84	0.74	1	20	8	NA	1.40	223.40	-	-	-
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	4.58	1,464.89	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	-	-	7.51	1,438.88	-
Compactor / Roller	Rollers	80	0.38	4	20	4	NA	1.69	542.19	-	-	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Grader	Graders	187	0.41	2	20	8	NA	4.55	1,455.09	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	-	-	32.50	-	153.87
Phase 1b: All Foundations, Excavation, and Installation												
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	-	-	28.20	-	106.38
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92
Office Trailer	Generator sets	84	0.74	1	40	8	NA	1.40	446.80	-	-	-
22 Ton Crane	Cranes	231	0.29	1	40	8	NA	3.26	1,044.48	-	-	-
Concrete Truck	heavy-duty diesel	NA	NA	80	40	NA	90	-	-	7.51	38,370.21	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	40	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	-	-	7.51	479.63	-
Compactor	plate compactors	8	0.43	2	40	4	NA	0.20	63.04	-	-	-
Air Compressor	air compressors	78	0.48	2	40	4	NA	1.02	326.50	-	-	-
Forklift	Forklifts	89	0.2	1	40	4	NA	0.86	136.87	-	-	-
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	40	8	NA	5.40	1,728.10	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	-	-	32.50	-	307.74

Table 3
PG&E Lockeford Substation Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
Structure Delivery and Setup												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	12	4	NA	150	-	-	7.51	959.26	-
Phase 2: Equipment Installation												
Pick-up Truck	Light-duty Truck	NA	NA	3	150	NA	25	-	-	28.20	-	398.92
1-Ton Truck	Light-duty Truck	NA	NA	2	150	NA	25	-	-	28.20	-	265.95
Office Trailer	Generator sets	84	0.74	1	150	8	NA	1.40	1,675.49	-	-	-
30 Ton Crane	Cranes	231	0.29	1	150	4	NA	3.26	1,958.41	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	150	4	NA	1.60	1,915.69	-	-	-
80' Aerial Lifts	Aerial lifts	63	0.31	2	150	4	NA	1.14	1,372.20	-	-	-
40' Aerial Lifts	Aerial lifts	63	0.31	2	150	4	NA	1.14	1,372.20	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	150	NA	90	-	-	7.51	1,798.60	-
Compactor	plate compactors	8	0.43	2	150	4	NA	0.20	236.40	-	-	-
Air Compressor	air compressors	78	0.48	2	150	4	NA	1.02	1,224.38	-	-	-
Forklift	Forklifts	89	0.2	2	150	4	NA	0.86	1,026.50	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	150	NA	25	-	-	32.50	-	1,154.01
Phase 3: Dress/Test/Wire Equipment												
Rigging Truck	Heavy-duty Diesel	NA	NA	2	40	NA	25	-	-	7.51	266.46	-
Forklift	Forklifts	89	0.2	2	40	8	NA	0.86	547.47	-	-	-
Manlift	Aerial lifts	63	0.31	2	40	8	NA	1.14	731.84	-	-	-
Boom Truck	Cranes	231	0.29	2	40	8	NA	3.26	2,088.97	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	-	-	28.20	-	106.38
Office Trailer	Generator sets	84	0.74	1	40	8	NA	1.40	446.80	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	-	-	7.51	239.81	-
Air Compressor	air compressors	78	0.48	2	40	4	NA	1.02	326.50	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	-	-	32.50	-	307.74
Phase 4A: Rebuild existing Substation.												
Rigging Truck	Heavy-duty Diesel	NA	NA	2	21	NA	25	-	-	7.51	139.89	-
Forklift	Forklifts	89	0.2	2	21	8	NA	0.86	287.42	-	-	-
Manlift	Aerial lifts	63	0.31	2	21	8	NA	1.14	384.22	-	-	-
Boom Truck	Cranes	231	0.29	2	21	8	NA	3.26	1,096.71	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	21	NA	25	-	-	28.20	-	37.23
Pick-up Truck	Light-duty Truck	NA	NA	3	21	NA	25	-	-	28.20	-	55.85
Office Trailer	Generator sets	84	0.74	1	21	8	--	1.40	234.57	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	21	NA	90	-	-	7.51	251.80	-
Air Compressor	air compressors	78	0.48	2	21	4	NA	1.02	171.41	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	21	NA	25	-	-	32.50	-	161.56
Phase 4D - 4F: Rebuild existing Substation												
Rigging Truck	Heavy-duty Diesel	NA	NA	2	171	NA	25	-	-	7.51	1,139.12	-
Forklift	Forklifts	89	0.2	2	171	4	NA	0.86	1,170.21	-	-	-
Manlift	Aerial lifts	63	0.31	2	171	4	NA	1.14	1,564.31	-	-	-
Boom Truck	Cranes	231	0.29	2	171	4	NA	3.26	4,465.17	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	171	NA	25	-	-	28.20	-	303.18
Pick-up Truck	Light-duty Truck	NA	NA	3	171	NA	25	-	-	28.20	-	454.77
Office Trailer	Generator sets	84	0.74	1	171	8	NA	1.40	1,910.05	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-

Table 3
PG&E Lockeford Substation Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
Dump Truck	Heavy-duty Diesel	NA	NA	1	171	NA	90	-	-	7.51	2,050.41	-
Air Compressor	air compressors	78	0.48	2	171	4	NA	1.02	1,395.79	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	171	NA	25	-	-	32.50	-	1,315.57
Phase 5A -5D: Rebuild existing Substation												
Rigging Truck	Heavy-duty Diesel	NA	NA	2	111	NA	25	-	-	7.51	739.43	-
Forklift	Forklifts	89	0.2	2	111	4	NA	0.86	759.61	-	-	-
Manlift	Aerial lifts	63	0.31	2	111	4	NA	1.14	1,015.43	-	-	-
Boom Truck	Cranes	231	0.29	2	111	4	NA	3.26	2,898.44	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	111	NA	25	-	-	28.20	-	196.80
Pick-up Truck	Light-duty Truck	NA	NA	3	111	NA	25	-	-	28.20	-	295.20
Office Trailer	Generator sets	84	0.74	1	111	4	NA	1.40	619.93	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	111	NA	90	-	-	7.51	1,330.97	-
Air Compressor	air compressors	78	0.48	2	111	4	NA	1.02	906.04	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	111	NA	25	-	-	32.50	-	853.97
Cleaning and Landscaping												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	-	-	7.51	39.97	-
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	1.60	63.86			
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	-	-	7.51	59.95	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	-	-	32.50	-	15.39
Other												
Inspectors	light-duty auto/truck	NA	NA	1	450	NA	25	-	-	32.50	-	346.20
Material Haul Trucks	Heavy-duty Diesel	NA	NA	27	2	NA	150	-	-	7.51	1,079.16	-
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)								124,371				
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												7,319

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[c] Diesel consumption rate was not available for an air compressor with a 78 hp rating, so the rate for a 50 hp rating was used instead.
[d] Diesel consumption rate was not available for generator sets with a 84 hp rating, so the rate for a 50 hp rating was used instead.

[e] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[f] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 4

PG&E 12 kV Service Line Extension into PG&E Thurman Switching Station Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/ Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [d,e]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction												
Pick-up Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Safetey Inspection	Light-duty Auto/Truck	NA	NA	1	20	NA	50	-	-	32.50	-	30.77
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	20	NA	25	-	-	32.50	-	30.77
Street Sweeper	Heavy-duty Diesel	NA	NA	1	20	NA	50	-	-	7.51	133.23	-
Mobilization: Thurman Yard												
Direction Drill Machine -HDD	Bore/Drill Rigs	221	0.5	1	15	8	NA	5.40	648.04	-	-	-
Vacumm Truck- Pump Intake	Pumps	84	0.74	1	15	8	NA	1.57	187.88	-	-	-
2 Stationary Pumps	Pumps	84	0.74	2	15	8	NA	1.57	375.75	-	-	-
10-Cu Asphalt/Concrete Truck	Heavy-duty Diesel	NA	NA	1	2	NA	60	-	-	7.51	15.99	-
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	15	NA	60	-	-	7.51	119.91	-
Water Truck	Heavy-duty Diesel	NA	NA	1	15	NA	60	-	-	7.51	119.91	-
Excavator/Ditch Witch	excavators	158	0.38	1	15	8	NA	2.89	346.49	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	10	8	NA	1.60	255.43	-	-	-
Road Grader	Graders	187	0.41	1	10	8	NA	4.55	363.77	-	-	-
Drum Type Compactor	Plate Compactors	8	0.43	1	5	8	NA	0.20	7.88	-	-	-
10 ton fork lift	Forklifts	89	0.2	1	5	5	NA	0.86	21.39	-	-	-
30 Ton Crane	Cranes	231	0.29	1	5	5	NA	3.26	81.60	-	-	-
boom truck	Cranes	231	0.29	1	5	8	NA	3.26	130.56	-	-	-
Cable puller Truck, 4 × 4	light-duty truck	NA	NA	1	20	NA	15	-	-	28.20	-	10.64
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck	NA	NA	2	20	NA	15	-	-	28.20	-	21.28
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	10	NA	2	-	-	7.51	2.66	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	8	20	NA	25	-	-	32.50	-	123.09
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									2,810			
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												252

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[c] Diesel consumption rate was not available for a pump with an 84 hp rating, so the rate for a 50 hp rating was used instead.

[d] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[e] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 5
PG&E Remote End Stations Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [c,d]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
System Work at PG&E Brighton Substation												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
General Construction at PG&E Brighton Substation												
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	-	-	28.20	-	14.18
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	-	-	28.20	-	3.55
Manlift	Aerial lifts	63	0.31	1	5	5	NA	1.14	28.59	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	-	-	7.51	4.00	-
Boom Truck	Cranes	231	0.29	1	5	6	NA	3.26	97.92	-	-	-
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	3.26	97.83	-	-	-
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	1.60	39.91	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
System Work at PG&E Rio Oso Substation												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
General Construction at PG&E Rio Oso Substation												
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	-	-	28.20	-	14.18
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	-	-	28.20	-	3.55
Manlift	Aerial lifts	63	0.31	1	5	5	NA	1.14	28.59	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	-	-	7.51	4.00	-
Boom Truck	Cranes	231	0.29	1	5	6	6	3.26	97.92	-	-	-
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	3.26	97.83	-	-	-
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	1.60	39.91	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
System Work at PG&E Bellota Substation												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
General Construction at PG&E Bellota Substation												
3/4-Ton Pick-up Truck	Light-duty Truck	NA	NA	4	5	NA	20	-	-	28.20	-	14.18
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	20	-	-	28.20	-	3.55
Manlift	Aerial lifts	63	0.31	1	5	5	NA	1.14	28.59	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	6	-	-	7.51	4.00	-
Boom Truck	Cranes	231	0.29	1	5	6	6	3.26	97.92	-	-	-
Jack Hammer	Other Construction Equipment	172	0.42	1	5	6	NA	3.26	97.83	-	-	-
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	5	NA	1.60	39.91	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16

Table 5
PG&E Remote End Stations Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [c,d]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction at PG&E Clayton Hill Repeater Station												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									805			
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												561

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[c] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[d] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 6
PG&E Thurman Switching Station Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction												
Water Truck	Heavy-duty Diesel	NA	NA	1	85	NA	50	-	-	7.51	566.23	-
Street Sweeper	Heavy-duty Diesel	NA	NA	1	50	NA	50	-	-	7.51	333.07	-
Civil Site Preparation												
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Office Trailer	Generator sets	84	0.74	1	20	8	NA	1.40	223.40	-	-	-
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	4.58	1,464.89	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	-	-	7.51	1,438.88	-
Compactor / Roller	Rollers	80	0.38	4	20	8	NA	1.69	1,084.38	-	-	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	-	-	32.50	-	153.87
Foundations, Excavation, and Installation												
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	-	-	28.20	-	106.38
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92
Office Trailer	Generator sets	84	0.74	1	40	8	NA	1.40	446.80	-	-	-
22 Ton Crane	Cranes	231	0.29	1	30	8	NA	3.26	783.36	-	-	-
Concrete Truck	heavy-duty diesel	NA	NA	80	30	NA	90	-	-	7.51	28,777.66	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	40	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	-	-	7.51	479.63	-
Compactor	plate compactors	8	0.43	2	40	8	NA	0.20	126.08	-	-	-
Air Compressor	air compressors	78	0.48	2	40	4	NA	1.02	326.50	-	-	-
Forklift	Forklifts	89	0.2	1	40	8	NA	0.86	273.73	-	-	-
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	40	8	NA	5.40	1,728.10	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	-	-	32.50	-	307.74
Structure Delivery and Setup												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	10	2	NA	150	-	-	7.51	399.69	-
Equipment Installation												
Pick-up Truck	Light-duty Truck	NA	NA	3	60	NA	25	-	-	28.20	-	159.57
1-Ton Truck	Light-duty Truck	NA	NA	2	60	NA	25	-	-	28.20	-	106.38
Office Trailer	Generator sets	84	0.74	1	60	8	NA	1.40	670.19	-	-	-

Table 6
PG&E Thurman Switching Station Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
30 Ton Crane	Cranes	231	0.29	1	60	4	NA	3.26	783.36	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	60	4	NA	1.60	766.28	-	-	-
80' Aerial Lifts	Aerial lifts	63	0.31	2	60	4	NA	1.14	548.88	-	-	-
40' Aerial Lifts	Aerial lifts	63	0.31	2	60	4	NA	1.14	548.88	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	40	NA	90	-	-	7.51	479.63	-
Compactor	plate compactors	8	0.43	2	60	4	NA	0.20	94.56	-	-	-
Air Compressor	air compressors	78	0.48	2	60	4	NA	1.02	489.75	-	-	-
Forklift	Forklifts	89	0.2	2	60	4	NA	0.86	410.60	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	60	NA	25	-	-	32.50	-	461.61
Dress/Test/Wire Equipment												
Rigging Truck	Heavy-duty Diesel	NA	NA	2	10	NA	25	-	-	7.51	66.61	-
Forklift	Forklifts	89	0.2	2	40	8	NA	0.86	547.47	-	-	-
Manlift	Aerial lifts	63	0.31	2	40	8	NA	1.14	731.84	-	-	-
Boom Truck	Cranes	231	0.29	2	40	8	NA	3.26	2,088.97	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	40	NA	25	-	-	28.20	-	70.92
Pick-up Truck	Light-duty Truck	NA	NA	3	40	NA	25	-	-	28.20	-	106.38
Office Trailer	Generator sets	84	0.74	1	40	8	NA	1.40	446.80	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	10	NA	90	-	-	7.51	119.91	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	40	NA	25	-	-	32.50	-	307.74
Exterior Walls, Final Grading, and Paving												
Concrete Truck	heavy-duty diesel	NA	NA	100	20	NA	90	-	-	7.51	23,981.38	-
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Office Trailer	Generator sets	84	0.74	1	20	8	NA	1.40	223.40	-	-	-
Crawler Backhoe	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Bulldozer	rubber tired dozers	247	0.4	2	20	8	NA	4.58	1,464.89	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	2	20	8	NA	1.60	510.85	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	6	20	NA	90	-	-	7.51	1,438.88	-
Compactor / Roller	Rollers	80	0.38	4	20	8	NA	1.69	1,084.38	-	-	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Grader	Graders	187	0.41	2	20	8	NA	4.55	1,455.09	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	20	NA	25	-	-	32.50	-	153.87
Cleaning and Landscaping												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	3	2	NA	150	-	-	7.51	119.91	-
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	1.60	63.86	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	-	-	7.51	59.95	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	-	-	32.50	-	15.39
Other												
Material Haul Trucks	Heavy-duty Diesel	NA	NA	25	2	NA	150	-	-	7.51	999.22	-
Inspector Vehicles	light-duty auto/truck	NA	NA	1	180	NA	25	-	-	32.50	-	138.48
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									81,781			
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												2,345

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[c] Diesel consumption rate was not available for an air compressor with a 78 hp rating, so the rate for a 50 hp rating was used instead.
[d] Diesel consumption rate was not available for generator sets with an 84 hp rating, so the rate for a 50 hp rating was used instead.
[e] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).

Table 6
PG&E Thurman Switching Station Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c,d]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [e,f]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)

[f] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 7

PG&E Microwave Tower within PG&E Thurman Switching Station Fuel Consumption [a]

PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [d,e]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	1	80	NA	25	-	-	32.50	-	61.55
Worker Commutes	Light-duty Auto/Truck	NA	NA	10	80	NA	25	-	-	32.50	-	615.47
Tower Foundation Installation												
Pick-up Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
1-Ton Truck	Light-duty Truck	NA	NA	1	20	NA	25	-	-	28.20	-	17.73
22 Ton Crane	Cranes	231	0.29	1	20	8	NA	3.26	522.24	-	-	-
Concrete Truck	heavy-duty diesel	NA	NA	16	20	NA	90	-	-	7.51	3,837.02	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	20	8	NA	1.60	255.43	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	-	-	7.51	239.81	-
Compactor	plate compactors	8	0.43	1	20	8	NA	0.20	31.52	-	-	-
Air Compressor	air compressors	78	0.48	1	20	4	NA	1.02	81.63	-	-	-
Forklift	Forklifts	89	0.2	1	20	8	NA	0.86	136.87	-	-	-
Foundation Drill Rig	Bore/Drill Rigs	221	0.5	1	20	8	NA	5.40	864.05	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	-	-	7.51	39.97	-
Structure Delivery and Setup												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	4	2	NA	150	-	-	7.51	159.88	-
Tower Installation												
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
30 Ton Crane	Cranes	231	0.29	1	20	8	NA	3.26	522.24	-	-	-
Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	20	8	NA	1.60	255.43	-	-	-
120' Aerial Lifts	Aerial Lifts	63	0.31	1	20	8	NA	1.14	182.96	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	20	NA	90	-	-	7.51	239.81	-
Air Compressor	air compressors	78	0.48	2	20	4	NA	1.02	163.25	-	-	-
Forklift	Forklifts	89	0.2	1	20	8	NA	0.86	136.87	-	-	-
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	-	-	7.51	39.97	-
Communication Equipment Installation & Testing												
Rigging Truck	Heavy-duty Diesel	NA	NA	1	20	NA	25	-	-	7.51	66.61	-
Manlift	Aerial lifts	63	0.31	1	20	8	NA	1.14	182.96	-	-	-
Boom Truck	Cranes	231	0.29	1	20	8	NA	3.26	522.24	-	-	-
1-Ton Truck	Light-duty Truck	NA	NA	2	20	NA	25	-	-	28.20	-	35.46
Pick-up Truck	Light-duty Truck	NA	NA	3	20	NA	25	-	-	28.20	-	53.19
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	-	-	7.51	39.97	-
Air Compressor	air compressors	78	0.48	1	20	8	NA	1.02	163.25	-	-	-
Cleaning and Landscaping												
Flat Bed Truck	Heavy-duty Diesel	NA	NA	1	2	NA	150	-	-	7.51	39.97	-
Pick-up Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
1-Ton Truck	Light-duty Truck	NA	NA	1	5	NA	25	-	-	28.20	-	4.43
Small Backhoe	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	1.60	63.86	-	-	-
Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	90	-	-	7.51	59.95	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	1	5	NA	25	-	-	32.50	-	3.85

Table 7

PG&E Microwave Tower within PG&E Thurman Switching Station Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b,c]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [d,e]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
Other												
Material Haul Trucks	Heavy-duty Diesel	NA	NA	8	2	NA	150	-	-	7.51	319.75	-
Inspector Vehicles	light-duty auto/truck	NA	NA	1	20	NA	25	-	-	32.50	-	15.39
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									9,168			
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												936

Notes:
NA = Parameter not required for computing emissions.

[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).

[c] Diesel consumption rate was not available for an air compressor with a 78 hp rating, so the rate for a 50 hp rating was used instead.

[d] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).

[e] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 8
PG&E Power Lines 60 kV Reconfiguration Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [c,d]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
General Construction												
Pick-up Truck	Light-duty Truck	NA	NA	15	40	NA	25	-	-	28.20	-	531.89
Worker Commutes	Light-duty Auto/Truck	NA	NA	15	40	NA	25	-	-	32.50	-	461.61
Safetey Inspection	Light-duty Auto/Truck	NA	NA	1	40	NA	25	-	-	32.50	-	30.77
Water Truck	Heavy-duty Diesel	NA	NA	1	40	NA	50	-	-	7.51	266.46	-
Street Sweeper	Heavy-duty Diesel	NA	NA	1	40	NA	50	-	-	7.51	266.46	-
Removal of 60 kV Wood Poles												
Auger Truck	Bore/Drill Rigs	221	0.5	1	15	8	NA	5.40	648.04	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	1.60	191.57	-	-	-
boom truck	Cranes	231	0.29	1	15	8	NA	3.26	391.68	-	-	-
bucket truck	Heavy-duty Diesel	NA	NA	1	15	NA	1	-	-	7.51	2.00	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	20	-	-	28.20	-	21.28
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	15	NA	15	-	-	7.51	29.98	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	15	NA	25	-	-	32.50	-	57.70
Restoration												
Light-duty Truck	Light-duty Truck	NA	NA	2	5	NA	25	-	-	28.20	-	8.86
Road Grader	Graders	187	0.41	1	5	6	25	4.55	136.41	-	-	-
Backhoe and Trailer	Tractors/Loaders/Backhoes	97	0.37	1	5	6	NA	1.60	47.89	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	3	5	NA	25	-	-	32.50	-	11.54
Replacement 60 kV Wood Pole, reconfiguration outside of Industrial Sub, 2 new spans, topping north end of Industrial Tap												
Auger Truck	Bore/Drill Rigs	221	0.5	1	15	8	NA	5.40	648.04	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	15	8	NA	1.60	191.57	-	-	-
boom truck	Cranes	231	0.29	1	15	8	NA	3.26	391.68	-	-	-
bucket truck	Heavy-duty Diesel	NA	NA	1	15	NA	1	-	-	7.51	2.00	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	2	15	NA	20	-	-	28.20	-	21.28
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel	NA	NA	1	15	NA	15	-	-	7.51	29.98	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	5	15	NA	25	-	-	32.50	-	57.70

Table 8
PG&E Power Lines 60 kV Reconfiguration Fuel Consumption [a]
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle	Equipment Diesel Consumption Rate (gallons/hour) [b]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [c,d]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)
Restoration												
Light-duty Truck	Light-duty Truck	NA	NA	2	5	NA	25	-	-	28.20	-	8.86
Road Grader	Graders	187	0.41	1	5	6	NA	4.55	136.41	-	-	-
Backhoe and Trailer	Tractors/Loaders/Backhoes	97	0.37	1	5	6	NA	1.60	47.89	-	-	-
Worker Commutes	Light-duty Auto/Truck	NA	NA	4	5	NA	25	-	-	32.50	-	15.39
Other												
Material Haul Trucks	Heavy-duty Diesel	NA	NA	10	5	NA	75	-	-	7.51	499.61	-
General Construction at PG&E Lodi Substation												
Mechanics Truck	Light-duty Auto/Truck	NA	NA	2	30	NA	100	-	-	32.50	-	184.64
Worker Commutes	Light-duty Auto/Truck	NA	NA	2	30	NA	25	-	-	32.50	-	46.16
Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)									3,928			
Total Gasoline Fuel Use for Construction Equipment and Vehicles (gallons)												1,458

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).

[c] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[d] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).

Table 9
PG&E Operation and Maintenance Fuel Consumption
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Equipment / Vehicle List	Equipment / Vehicle Type	HP	Equipment Load Factor	Quantity	Number of Days Used	Hours per Day	Miles per Day/Vehicle [b]	Equipment Diesel Consumption Rate (gallons/hour) [c]	Equipment Diesel Consumption (gallons)	Vehicle Fuel Efficiency (miles/gallon) [d,e]	Vehicle Diesel Consumption (gallons)	Vehicle Gasoline Consumption (gallons)	Aircraft Jet Fuel Consumption Rate (kg/LTO) [f]	Aircraft Jet Fuel Consumption (gallons) [g]
New PG&E 230 kV Transmission Lines O&M (72 Structures)														
Detailed Ground and Aerial	Light-duty Auto/Truck	NA	NA	1	15	NA	50	-	-	32.50	-	23.08	-	-
Hughes 500 Helicopter	Helicopter	NA	NA	1	1	8	NA	-	-	-	-	-	134.45	355.22
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	15	NA	80	-	-	7.51	159.88	-	-	-
Light-duty Auto/Truck	Light-duty Auto/Truck	NA	NA	1	1	NA	50	-	-	32.50	-	1.54	-	-
10-Cu Dump Truck	Heavy-duty Diesel	NA	NA	1	5	NA	75	-	-	7.51	49.96	-	-	-
Backhoe/Front Loader	Tractors/Loaders/Backhoes	97	0.37	1	5	8	NA	1.60	63.86	-	-	-	-	-
Boom truck	Cranes	231	0.29	1	5	8	NA	3.26	130.56	-	-	-	-	-
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck	NA	NA	1	5	NA	75	-	-	28.20	-	13.30	-	-
Lowboy Truck/Trailer	Heavy-duty Diesel	NA	NA	1	5	NA	75	-	-	7.51	49.96	-	-	-
New PG&E Thurman Switching Station O&M								-	-	7.51		-		
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	-	-	32.50	-	18.46	-	-
Yearly Inspections/Maintenance (PG&E Standard TD3322-S	Light-duty Auto/Truck	NA	NA	1	24	NA	50	-	-	32.50	-	36.93	-	-
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	24	NA	50	-	-	7.51	159.88	-	-	-
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	-	-	32.50	-	18.46	-	-
PG&E Lockeford Substation O&M (if applicable) substation equpiment maintenance requirements.								-	-	34.56	-	0.00		
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	-	-	32.50	-	18.46	-	-
Yearly Inspections/Maintenance (PG&E Standard TD3322-S	Light-duty Auto/Truck	NA	NA	1	24	NA	50	-	-	32.50	-	36.93	-	-
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel	NA	NA	1	24	NA	50	-	-	7.51	159.88	-	-	-
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck	NA	NA	1	12	NA	50	-	-	32.50	-	18.46	-	-
Total Diesel Fuel Use for O&M Equipment and Vehicles (gallons)									774					
Total Gasoline Fuel Use for O&M Equipment and Vehicles (gallons)												186		
Total Jet Fuel Use for O&M Aircraft (gallons)														355

Notes:
NA = Parameter not required for computing emissions.
[a] Unless otherwise noted, equipment/vehicle list and daily use provided by PG&E.
[b] Helicopter operation assumes 1 LTO/hr, twin medium lift helicopter.
[c] Fuel consumption for construction equipment calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).
[d] Fuel efficiency for construction vehicles calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).
[e] Workers are assumed to travel in gasoline-fueled passenger vehicles (72% light-duty automobiles, 6% light-duty trucks class 1, and 21% light-duty trucks class 2). Vendor deliveries, material transport, and construction support vehicles are assumed to occur in either diesel-fueled heavy-duty trucks or gasoline-fueled light-duty trucks (23% light-duty trucks class 1 and 77% light-duty trucks class 2).
[f] Fuel consumption rate for aircraft taken from Table 6-12 of the *Year 2011 Gulfwide Emission Inventory Study* , which was prepared by the U.S. Department of the Interior, Bureau of Ocean Energy Management (BOEM), Gulf of Mexico OCS Region (BOEM, 2014).
[g] Used the following factors to estimate the aircraft jet fuel consumption:

Jet Fuel Density (kg/L):	0.80
Volumetric Conversion (L/gal):	3.785

Table 10
Lodi Electric Utility (LEU) Guild Substation, LEU Industrial Substation and LEU 12 kV Feeder Line Fuel Consumption
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Vehicle and Equipment Fuel Consumption

Phase Name	Type of Equipment [a]	Number of Equipment [a]	Hours per Day [a]	Horsepower [a]	Load Factor [a]	Number of Days [a]	Fuel Consumption Rate (gallons/hour) [b]	Fuel Consumption (gallons)
Underground 12 kV Line Installation	Bore/Drill Rigs	1	8	221	0.5	10	5.40	432.03
	Off-Highway Trucks	2	8	275	0.38	10	4.14	662.58
	Trenchers	1	8	78	0.5	10	2.18	174.74
Access Roads	Off-Highway Trucks	4	8	275	0.38	30	4.14	3,975.50
	Rubber Tired Loaders	2	8	203	0.36	30	3.86	1,852.65
Site Preparation	Graders	1	8	187	0.41	60	4.55	2,182.64
	Off-Highway Trucks	9	8	275	0.38	60	4.14	17,889.75
	Rollers	2	8	80	0.38	60	1.69	1,626.57
	Rubber Tired Dozers	1	8	247	0.4	60	4.58	2,197.33
	Rubber Tired Loaders	1	8	203	0.36	60	3.86	1,852.65
	Scrapers	1	8	367	0.48	60	10.53	5,054.80
Fence and Gate Installation	Off-Highway Trucks	5	8	275	0.38	30	4.14	4,969.38
	Rough Terrain Forklifts	1	8	100	0.4	30	2.00	481.18
Foundation	Bore/Drill Rigs	1	8	221	0.5	60	5.40	2,592.16
	Cranes	1	8	231	0.29	60	3.26	1,566.73
	Off-Highway Trucks	2	8	275	0.38	60	4.14	3,975.50
	Rubber Tired Dozers	1	8	247	0.4	60	4.58	2,197.33
Ground/Grid Circuit Installation	Off-Highway Trucks	1	8	275	0.38	60	4.14	1,987.75
	Trenchers	1	8	78	0.5	60	2.18	1,048.41
Transformer Installation	Cranes	1	8	231	0.29	60	3.26	1,566.73
	Generator Sets	1	8	34	0.74	60	1.40	670.19
	Off-Highway Trucks	5	8	275	0.38	60	4.14	9,938.75
Yard Rock Installation	Off-Highway Trucks	2	8	275	0.38	60	4.14	3,975.50
	Rough Terrain Forklifts	1	8	100	0.4	60	2.00	962.35
Steel/Bus Erection	Aerial Lifts	1	8	63	0.31	30	1.14	274.44
	Off-Highway Trucks	2	8	275	0.44	30	4.14	1,987.75
Remaining Deliveries, Installations, Testing and Commissioing	Aerial Lifts	1	8	63	0.31	90	1.14	823.32
	Cranes	1	8	231	0.29	90	3.26	2,350.09
	Off-Highway Trucks	3	8	275	0.38	90	4.14	8,944.88
Cleaning and Restoration	Graders	1	8	187	0.41	30	4.55	1,091.32
	Off-Highway Trucks	1	8	275	0.38	30	4.14	993.88
	Rubber Tired Loaders	1	8	203	0.36	30	3.86	926.33
Survey	Off-Highway Trucks	2	10	275	0.38	30	4.14	2,484.69
							Total Diesel Fuel Use for Construction Equipment and Vehicles (gallons)	93,710

Notes:

[a] Values taken directly from the CalEEMod Report presented in Appendix A of the *Air Quality and Greenhouse Gas Emissions Technical Analysis* prepared for the City of Lodi Electric Utility (Burns McDonnell, 2020).

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. Though the construction activity will occur in 2027, the 2026 consumption rates were used to provide a more conservative estimate. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).

Fuel Consumption for Employee Vehicle Trips and Vendor Deliveries During Construction

Phase Name	Trip Numbers per Day [a]		Trip Length (miles) [a]		Number of Days [a]	Fuel Efficiency (miles/gallon) [b,c]		Fuel Consumption (gallons)	
	Worker	Vendor	Worker	Vendor		Worker	Vendor	Worker	Vendor
Underground 12kV Line Installation	10	0	10.8	7.3	10	31.58	8.79	34.20	0.00
Access Roads	20	0	10.8	7.3	30	31.58	8.79	205.20	0.00
Site Preparation	20	0	10.8	7.3	60	31.58	8.79	410.40	0.00
Fence and Gate Installation	10	0	10.8	7.3	30	31.58	8.79	102.60	0.00
Foundation	20	0	10.8	7.3	60	31.58	8.79	410.40	0.00
Ground/Grid Circuit Installation	10	22	10.8	7.3	60	31.58	8.79	205.20	1,095.67
Transformer Installation	16	22	10.8	7.3	60	31.58	8.79	328.32	1,095.67
Yard Rock Installation	16	0	10.8	7.3	60	31.58	8.79	328.32	0.00
Steel/Bus Erection	10	22	10.8	7.3	30	31.58	8.79	102.60	547.83
Remaining Deliveries, Installations, Testing and Commissiong	30	22	10.8	7.3	90	31.58	8.79	923.41	1,643.50
Cleaning and Restoration	6	22	10.8	7.3	30	31.58	8.79	61.56	547.83
Survey	5	0	10.8	7.3	30	31.58	8.79	51.30	0.00
Total Fuel Use per Construction Vehicle Category (gallons)								3,164	4,931
Total Diesel Fuel Use for Construction Vendor Deliveries (gallons)								4,931	
Total Gasoline Fuel Use for Construction Employee Vehicle Trips (gallons)								3,164	

Notes:

[a] Values taken directly from the CalEEMod Report presented in Appendix A of the *Air Quality and Greenhouse Gas Emissions Technical Analysis* prepared for the City of Lodi Electric Utility (Burns McDonnell, 2020).

[b] Fuel efficiency calculated from EMFAC2017 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the presumed vehicle mix. Though the construction activity will occur in 2027, the 2026 fuel efficiency rates were used to provide a more conservative estimate. This output was generated using the EMFAC2017 Web Database (https://arb.ca.gov/emfac/2017/).

[c] Workers are assumed to travel in gasoline-fueled passenger vehicles (50% light-duty automobiles, 25% light-duty trucks class 1, and 25% light-duty trucks class 2), whereas vendor deliveries are assumed to occur in a mix of heavy-duty and medium-duty diesel-fueled trucks.

Fuel Consumption for O&M Equipment

Type of Equipment [a]	Number of Equipment [a]	Hours per Day [a]	Days per Year [a]	Horsepower [a]	Load Factor [a]	Fuel Consumption Rate (gallons/hour) [b]	Fuel Consumption (gallons/year)
Off-Highway Trucks	1	4	12	402	0.38	7.44	356.94
Total Diesel Fuel Use for O&M Equipment (gallons)							357

Notes:

[a] Values taken directly from the CalEEMod Report presented in Appendix A of the *Air Quality and Greenhouse Gas Emissions Technical Analysis* prepared for the City of Lodi Electric Utility (Burns McDonnell, 2020).

[b] Fuel consumption calculated from OFFROAD2021 model output for the San Joaquin Valley Air Pollution Control District in the year 2026, based on the equipment's horsepower rating. Though the construction activity will occur in 2027, the 2026 consumption rates were used to provide a more conservative estimate. This output was generated using the EMFAC Web Database (https://arb.ca.gov/emfac/).

Model Output: OFFROAD2021 (v1.0.2) Emissions Inventory
Region Type: Air District
Region: San Joaquin Valley Unified APCD
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	Fuel Consumption	Total_Activity_hpy	Fuel Consumption (gallons/hour)
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	100	Diesel	74275.93541	35117.36598	2.12
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	175	Diesel	94125.32759	24113.64689	3.90
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	300	Diesel	135093.5577	25015.82081	5.40
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	50	Diesel	12968.02957	11210.13587	1.16
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	600	Diesel	186991.1386	18991.85936	9.85
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	75	Diesel	5465.40374	3235.251728	1.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	750	Diesel	163385.8469	9884.144737	16.53
San Joaquin Valley Unified APCD	2026	Construction and Mining - Bore/Drill Rigs	Aggregate	9999	Diesel	70035.44742	1450.977449	48.27
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	100	Diesel	94767.47467	72108.40167	1.31
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	175	Diesel	273061.0687	124042.9853	2.20
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	25	Diesel	247.722365	598.3981299	0.41
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	300	Diesel	468347.0761	143488.0705	3.26
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	50	Diesel	4010.725924	5820.349378	0.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	600	Diesel	845321.9686	155145.4178	5.45
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	75	Diesel	2194.584268	2145.766267	1.02
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	750	Diesel	16525.75471	1752.859387	9.43
San Joaquin Valley Unified APCD	2026	Construction and Mining - Cranes	Aggregate	9999	Diesel	46097.82696	3302.130221	13.96
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	100	Diesel	565528.4251	290404.0263	1.95
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	175	Diesel	626469.3775	189167.6084	3.31
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	300	Diesel	654651.0627	143958.2893	4.55
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	50	Diesel	13009.76921	12612.01824	1.03
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	600	Diesel	2292513.975	268631.2602	8.53
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	75	Diesel	8927.954411	5300.391277	1.68
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	750	Diesel	28787.12717	2119.734337	13.58
San Joaquin Valley Unified APCD	2026	Construction and Mining - Crawler Tractors	Aggregate	9999	Diesel	133409.2315	6138.406146	21.73
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	100	Diesel	666850.4222	416823.6761	1.60
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	175	Diesel	1424505.455	493352.2724	2.89
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	25	Diesel	104.3982207	190.3580674	0.55
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	300	Diesel	1815063.069	419673.9709	4.32
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	50	Diesel	520149.5025	661277.6991	0.79
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	600	Diesel	3192065.021	480646.5059	6.64
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	75	Diesel	7384.175597	5102.865261	1.45
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	750	Diesel	76156.36463	6280.547171	12.13
San Joaquin Valley Unified APCD	2026	Construction and Mining - Excavators	Aggregate	9999	Diesel	89763.25284	3769.935771	23.81
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	100	Diesel	76808.37482	41049.00107	1.87
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	175	Diesel	869541.9777	276128.2325	3.15
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	300	Diesel	1789601.445	393564.976	4.55
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	50	Diesel	2869.106242	3488.729372	0.82
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	600	Diesel	121554.6994	17665.11975	6.88
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	75	Diesel	1657.3261	1205.56068	1.37
San Joaquin Valley Unified APCD	2026	Construction and Mining - Graders	Aggregate	9999	Diesel	62248.36689	1626.826771	38.26
San Joaquin Valley Unified APCD	2026	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	50	Diesel	3504	2525.8	1.39
San Joaquin Valley Unified APCD	2026	Construction and Mining - Misc - Other	Aggregate	25	Diesel	16176.8	33616.5	0.48
San Joaquin Valley Unified APCD	2026	Construction and Mining - Misc - Plate Compactors	Aggregate	25	Diesel	4792.45	24327.25	0.20
San Joaquin Valley Unified APCD	2026	Construction and Mining - Misc - Signal Boards	Aggregate	25	Diesel	74850.55	265895.2	0.28
San Joaquin Valley Unified APCD	2026	Construction and Mining - Misc - Signal Boards	Aggregate	50	Diesel	1522.05	879.65	1.73
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	100	Diesel	162609.6961	91461.72027	1.78
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	175	Diesel	234250.9636	65683.02933	3.57
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	300	Diesel	197566.5077	41085.96259	4.81
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	50	Diesel	215119.9997	228535.1365	0.94
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	600	Diesel	663256.43	82345.9758	8.05
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	75	Diesel	112685.646	71015.57289	1.59
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	750	Diesel	27682.00947	1944.191289	14.24
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Tractors	Aggregate	9999	Diesel	34931.85826	989.6259225	35.30
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	22199.66218	13047.15305	1.70
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	489719.1286	156892.5427	3.12
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	25	Diesel	999.1187374	1821.283148	0.55
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	1002975.755	242197.5745	4.14
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	50	Diesel	19826.55245	31377.84686	0.63
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	600	Diesel	4310551.797	579673.4016	7.44
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	2021.887245	1383.331546	1.46
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	750	Diesel	1469984.163	111648.2962	13.17
San Joaquin Valley Unified APCD	2026	Construction and Mining - Off-Highway Trucks	Aggregate	9999	Diesel	2591520.587	102937.2362	25.18
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	100	Diesel	348122.7989	197367.9257	1.76
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	175	Diesel	198943.7273	61006.30781	3.26
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	300	Diesel	267650.1241	56287.64926	4.76
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	50	Diesel	116415.4491	127327.6402	0.91
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	600	Diesel	1045926.665	125543.481	8.33
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	75	Diesel	16702.46107	10805.37824	1.55
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	750	Diesel	150015.6402	11297.20527	13.28
San Joaquin Valley Unified APCD	2026	Construction and Mining - Other	Aggregate	9999	Diesel	64207.21055	3260.463411	19.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	100	Diesel	116399.9738	67128.83327	1.73
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	175	Diesel	188337.1704	55458.52532	3.40
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	25	Diesel	0	0	#DIV/0!
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	300	Diesel	147017.6994	30858.82066	4.76
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	50	Diesel	14255.95575	15387.3031	0.93
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	600	Diesel	27063.58321	3495.312962	7.74
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	75	Diesel	20872.01865	13620.86349	1.53
San Joaquin Valley Unified APCD	2026	Construction and Mining - Pavers	Aggregate	750	Diesel	5514.190349	341.8116372	16.13
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	100	Diesel	73398.90493	44866.87918	1.64
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	175	Diesel	80654.80775	30429.19061	2.65
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	25	Diesel	42.08910461	82.4304229	0.51
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	300	Diesel	51974.70873	12341.07076	4.21
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	50	Diesel	17705.37919	25074.09819	0.71
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	600	Diesel	59966.2683	8271.892938	7.25
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	75	Diesel	2538.454626	2020.781817	1.26
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	750	Diesel	10685.86437	913.7412378	11.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Paving Equipment	Aggregate	9999	Diesel	5209.422098	336.3161254	15.49
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	100	Diesel	454499.6292	268244.4868	1.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	175	Diesel	472876.3108	169602.8221	2.79
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	25	Diesel	45.77675349	84.92646525	0.54
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	300	Diesel	80781.90573	19089.34623	4.23
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	50	Diesel	292738.5572	379548.6875	0.77
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	600	Diesel	43361.67429	6303.666883	6.88
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rollers	Aggregate	75	Diesel	2921.894272	2123.161631	1.38

San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	100	Diesel	1175173.176	586148.9716		2.00
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	175	Diesel	244973.0581	93126.32557		2.63
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	25	Diesel	206.4917309	357.2357995		0.58
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	300	Diesel	19431.71399	4409.338442		4.41
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	50	Diesel	14695.33087	13260.8477		1.11
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	600	Diesel	6391.909516	768.375492		8.32
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	75	Diesel	495.5823269	383.2076752		1.29
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rough Terrain Forklifts	Aggregate	750	Diesel	1202.492089	92.61668876		12.98
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	100	Diesel	41511.42983	23865.34649		1.74
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	175	Diesel	55636.70883	18688.11806		2.98
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	300	Diesel	65554.24334	14320.09669		4.58
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	50	Diesel	12907.20438	13772.27603		0.94
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	600	Diesel	646768.8923	85546.07442		7.56
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	75	Diesel	15702.26292	10534.63977		1.49
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Dozers	Aggregate	750	Diesel	24199.25686	1777.589162		13.61
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	100	Diesel	989702.2034	620215.6487		1.60
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	175	Diesel	2347570.139	839180.9048		2.80
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	300	Diesel	3309686.895	857499.0681		3.86
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	50	Diesel	40627.22814	46886.44672		0.87
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	600	Diesel	4535247.208	734685.0095		6.17
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	75	Diesel	99.31370585	84.21756815		1.18
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	750	Diesel	380639.4043	31489.79091		12.09
San Joaquin Valley Unified APCD	2026	Construction and Mining - Rubber Tired Loaders	Aggregate	9999	Diesel	304277.7164	16952.15429		17.95
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	100	Diesel	35435.10024	15685.07152		2.26
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	175	Diesel	449289.0961	106829.8551		4.21
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	25	Diesel	103.9587733	149.8852162		0.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	300	Diesel	516599.7314	92533.30358		5.58
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	50	Diesel	827.432104	783.1502544		1.06
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	600	Diesel	6437843.427	611332.6676		10.53
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	75	Diesel	6638.108541	3923.661881		1.69
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	750	Diesel	143109.9301	9362.413488		15.29
San Joaquin Valley Unified APCD	2026	Construction and Mining - Scrapers	Aggregate	9999	Diesel	149845.3532	3761.28623		39.84
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	100	Diesel	416.3238299	257.9193567		1.61
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	175	Diesel	7951.92532	2744.261955		2.90
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	300	Diesel	7390.536214	1887.539826		3.92
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	50	Diesel	221312.4183	238961.8541		0.93
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	600	Diesel	2133.192424	236.426077		9.02
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	75	Diesel	1175630.26	873293.0187		1.35
San Joaquin Valley Unified APCD	2026	Construction and Mining - Skid Steer Loaders	Aggregate	9999	Diesel	2887.570117	151.7425549		19.03
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	100	Diesel	13279.03995	9339.168102		1.42
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	175	Diesel	9957.324697	4535.042002		2.20
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	300	Diesel	19937.42905	5682.354202		3.51
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	50	Diesel	2046.903613	3246.948122		0.63
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	600	Diesel	72212.53447	11484.82131		6.29
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	75	Diesel	1248.579979	1241.686623		1.01
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	750	Diesel	33014.67179	3285.55584		10.05
San Joaquin Valley Unified APCD	2026	Construction and Mining - Surfacing Equipment	Aggregate	9999	Diesel	11342.98333	826.7511432		13.72
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	6997562.765	4383311.627		1.60
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	175	Diesel	1222657.381	447938.9199		2.73
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	300	Diesel	766084.1818	192838.8195		3.97
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	50	Diesel	436419.55	549174.2794		0.79
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	600	Diesel	997744.0269	155564.4133		6.41
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	75	Diesel	69985.31693	51136.88312		1.37
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	750	Diesel	30880.86886	2587.560871		11.93
San Joaquin Valley Unified APCD	2026	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	9999	Diesel	342174.4578	9700.393639		35.27
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	100	Diesel	101676.0996	46550.79452		2.18
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	175	Diesel	24167.87927	6654.893481		3.63
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	300	Diesel	53096.59472	8988.039993		5.91
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	50	Diesel	155069.816	134203.8534		1.16
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	600	Diesel	79625.32418	7877.534599		10.11
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	75	Diesel	9493.435465	5281.230864		1.80
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	750	Diesel	22269.36636	1291.821625		17.24
San Joaquin Valley Unified APCD	2026	Construction and Mining - Trenchers	Aggregate	9999	Diesel	2021.874533	90.43203535		22.36
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	100	Diesel	65757.01442	52883.54778		1.24
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	175	Diesel	10375.97903	4990.697872		2.08
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	300	Diesel	620.0455158	169.1690129		3.67
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	50	Diesel	97298.98693	119007.0087		0.82
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	600	Diesel	440.3221779	56.38967096		7.81
San Joaquin Valley Unified APCD	2026	Industrial - Aerial Lifts	Aggregate	75	Diesel	104018.2093	90964.59493		1.14
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	100	Diesel	785891.314	918720.1771		0.86
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	175	Diesel	249303.0982	169830.2753		1.47
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	25	Diesel	0	0	#DIV/0!	
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	300	Diesel	54300.38176	24860.13708		2.18
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	50	Diesel	65486.12659	133484.0493		0.49
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	600	Diesel	13718.25731	3700.193474		3.71
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	75	Diesel	2856.732152	3858.527334		0.74
San Joaquin Valley Unified APCD	2026	Industrial - Forklifts	Aggregate	9999	Diesel	1085.915623	118.7503952		9.14
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	100	Diesel	28412.14539	20549.38559		1.38
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	175	Diesel	52804.8434	20067.53583		2.63
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	25	Diesel	14.95571563	30.43902472		0.49
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	300	Diesel	51875.65342	13716.43332		3.78
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	50	Diesel	140818.184	203513.4929		0.69
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	600	Diesel	178547.1048	26210.7398		6.81
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	75	Diesel	85190.31903	67683.91098		1.26
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	750	Diesel	19092.30969	1662.57953		11.48
San Joaquin Valley Unified APCD	2026	Industrial - Other General Industrial Equipment	Aggregate	9999	Diesel	9596.840872	466.3258587		20.58
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	100	Diesel	70483.87982	37018.58666		1.90
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	175	Diesel	51673.45081	18514.06925		2.79
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	25	Diesel	299.5822462	527.2615191		0.57
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	300	Diesel	80782.06947	16774.41884		4.82
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	50	Diesel	6286.509307	7596.317143		0.83
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	600	Diesel	110265.0162	14719.03674		7.49
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	75	Diesel	1406.669976	966.125109		1.46
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	750	Diesel	3247.164361	246.2637794		13.19
San Joaquin Valley Unified APCD	2026	Industrial - Other Material Handling Equipment	Aggregate	9999	Diesel	7609.440205	369.395669		20.60
San Joaquin Valley Unified APCD	2026	Light Commercial - Misc - Air Compressors	Aggregate	50	Diesel	63243.55	61984.3		1.02
San Joaquin Valley Unified APCD	2026	Light Commercial - Misc - Generator Sets	Aggregate	50	Diesel	174236.4	124789.85		1.40
San Joaquin Valley Unified APCD	2026	Light Commercial - Misc - Pressure Washers	Aggregate	50	Diesel	737.3	1266.55		0.58
San Joaquin Valley Unified APCD	2026	Light Commercial - Misc - Pumps	Aggregate	50	Diesel	102039.4	65174.4		1.57
San Joaquin Valley Unified APCD	2026	Light Commercial - Misc - Welders	Aggregate	50	Diesel	290262.6	244447.8		1.19

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Air District
Region: San Joaquin Valley Unified APCD
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	Fuel Efficiency (miles/gallon)
SAN JOAQUIN VALLEY UNIFIED APCD	2026	HHDT	Aggregate	Aggregate	Gasoline	12.48701255	1928.03	249.84	0.42	4.62
SAN JOAQUIN VALLEY UNIFIED APCD	2026	HHDT	Aggregate	Aggregate	Diesel	96718.91409	13275698.69	1139839.31	1768.72	7.51
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Aggregate	Gasoline	1852652.691	69600516.51	8705085.36	2013.83	34.56
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Aggregate	Diesel	18751.1893	743927.87	89472.80	13.46	55.28
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Aggregate	Electricity	56882.73488	2427043.73	281598.38	0.00	-
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Aggregate	Gasoline	191294.3935	6567175.96	871443.32	223.92	29.33
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Aggregate	Diesel	91.37740684	1693.16	309.40	0.07	25.30
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Aggregate	Electricity	2627.240278	117233.50	13196.07	0.00	-
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Aggregate	Gasoline	617352.7421	21634118.34	2850217.89	776.40	27.86
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Aggregate	Diesel	4299.663727	171030.69	20845.27	4.16	41.07
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Aggregate	Electricity	10859.72169	329262.35	54200.23	0.00	-
SAN JOAQUIN VALLEY UNIFIED APCD	2026	MHDT	Aggregate	Aggregate	Gasoline	4179.929932	248338.2392	83632.03809	48.29106407	5.14
SAN JOAQUIN VALLEY UNIFIED APCD	2026	MHDT	Aggregate	Aggregate	Diesel	45666.27896	2755023.437	402106.7782	273.223082	10.08

Worker Commutes (Light-duty Trucks/Autos) --> Assume 72% LDA, 6% LDT1 & 21% LDT2, All Gasoline

Region	Calendar Year	Vehicle Category	Model Year	Fuel	VMT	% Vehicle Fleets	Fuel Efficiency (miles/gallons)
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Gasoline	69600517	69%	34.56
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Diesel	743928	1%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDA	Aggregate	Electricity	2427044	2%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Gasoline	6567176	6%	29.33
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Diesel	1693	0%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Electricity	117233	0%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Gasoline	21634118	21%	27.86
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Diesel	171031	0%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Electricity	329262	0%	
				SUM	101592002		

Light-duty Trucks/Autos Fuel Efficiency =	32.50

Light-duty Trucks --> Assume 23% LDT1 & 77% LDT2, All Gasoline

Region	Calendar Year	Vehicle Category	Model Year	Fuel	VMT	% Vehicle Fleets	Fuel Efficiency (miles/gallon)
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Gasoline	6567176	23%	29.33
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Diesel	1693	0%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT1	Aggregate	Electricity	117233	0%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Gasoline	21634118	75%	27.86
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Diesel	171031	1%	
SAN JOAQUIN VALLEY UNIFIED APCD	2026	LDT2	Aggregate	Electricity	329262	1%	
				SUM	28820514		

Light-duty Trucks Fuel Efficiency =	28.20

DO NOT PRINT

NEVER V. BRENDEN'S INSTITUTIONAL EARTHSTRIPS 1 (EUR) 3
NEVER V. EVE 1 (EUR) 3 (AUTO) MEMBERSHIP
All Months in Cubic ft (Mcf)

Date	Product Category	Product Type	Throughput Type	Region	Throughput	Quota
08/2021	Crude Oil	Crude Oil	Input	Northern California	2,010	7,846
08/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
08/2021	Gasoline	Non-California Gasoline	Production	Northern California	37	283
08/2021	Gasoline	Gasoline Blending Components	Production	Northern California	1,147	1,147
08/2021	Jet Fuel	Jet Fuel	Production	Northern California	553	1,553
08/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
08/2021	Diesel	Other Diesel Fuel	Production	Northern California	288	372
09/2021	Crude Oil	Crude Oil	Input	Northern California	8,549	8,241
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	733	733
09/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
09/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
09/2021	Diesel	CARB Diesel	Production	Northern California	949	949
09/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
08/2021	Residual	Residual	Production	Northern California	509	1,509
08/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	10,516
08/1/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
08/1/2021	Gasoline	Non-California Gasoline	Production	Northern California	0	0
08/1/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/1/2021	Jet Fuel	Jet Fuel	Production	Northern California	516	1,201
08/1/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
08/1/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	5,600	6,849
08/1/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
08/1/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/1/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,171	1,696
08/1/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	Other Diesel Fuel	Production	Northern California	449	883
08/1/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Residual	Residual	Production	Northern California	199	897
08/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,438	2,621
08/2021	Gasoline	Non-California Gasoline	Production	Northern California	116	897
08/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/2021	Jet Fuel	Jet Fuel	Production	Northern California	516	1,549
08/2021	Diesel	CARB Diesel	Production	Northern California	516	1,186
08/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
08/2021	Crude Oil	Crude Oil	Input	Northern California	8,864	8,241
08/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
08/2021	Gasoline	Non-California Gasoline	Production	Northern California	975	1,015
08/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,006	1,116
08/2021	Diesel	CARB Diesel	Production	Northern California	994	994
08/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
08/2021	Residual	Residual	Production	Northern California	705	1,509
08/2021	Residual	Residual	Production	Northern California	79	837
08/1/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	8,241
08/1/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,638	2,749
08/1/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
08/1/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/1/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	CARB Diesel	Production	Northern California	798	1,249
08/1/2021	Diesel	Other Diesel Fuel	Production	Northern California	744	996
08/1/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,997	2,849
08/1/2021	Gasoline	Non-California Gasoline	Production	Northern California	516	885
08/1/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/1/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,664	1,716
08/1/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	Other Diesel Fuel	Production	Northern California	716	896
08/1/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Residual	Residual	Production	Northern California	215	897
09/2021	Crude Oil	Crude Oil	Input	Northern California	8,648	11,545
09/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	277	885
09/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
09/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,164	1,550
09/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
09/2021	Diesel	Other Diesel Fuel	Production	Northern California	851	1,147
09/2021	Crude Oil	Crude Oil	Input	Northern California	8,648	8,543
09/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	525	885
09/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,798
09/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
09/2021	Diesel	CARB Diesel	Production	Northern California	949	949
09/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
09/2021	Residual	Residual	Production	Northern California	509	1,509
09/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	8,241
08/1/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
08/1/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
08/1/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
08/1/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
08/1/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
08/1/2021	Residual	Residual	Production	Northern California	1,147	1,147
08/1/2021	Residual	Residual	Production	Northern California	1,147	1,147
09/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	8,241
09/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
09/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
09/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
09/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
09/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
09/2021	Residual	Residual	Production	Northern California	1,147	1,147
09/2021	Residual	Residual	Production	Northern California	1,147	1,147
09/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	8,241
09/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
09/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
09/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
09/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
09/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
09/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
09/2021	Residual	Residual	Production	Northern California	1,147	1,147
09/2021	Residual	Residual	Production	Northern California	1,147	1,147
10/2021	Crude Oil	Crude Oil	Input	Northern California	8,600	8,241
10/2021	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,664	2,849
10/2021	Gasoline	Non-California Gasoline	Production	Northern California	1,147	1,147
10/2021	Gasoline	Gasoline Blending Components	Production	Northern California	0	4,849
10/2021	Jet Fuel	Jet Fuel	Production	Northern California	1,147	1,147
10/2021	Diesel	CARB Diesel	Production	Northern California	1,147	1,147
10/2021	Diesel	Other Diesel Fuel	Production	Northern California	1,147	1,147
10/2021	Residual	Residual	Production	Northern California	1,147	1,147
10

09/15/2031	Diesel	CARB Diesel	Production	Northern California	355	357
09/15/2031	Diesel	Other Diesel Fuel	Production	Northern California	980	715
09/15/2031	Residual	Residual	Production	Northern California	1164	842
09/15/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,894	2,911
09/17/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	2,894	2,911
09/17/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	418	420
09/17/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	0
09/17/2031	Jet Fuel	Jet Fuel	Production	Northern California	1848	1,862
09/17/2031	Diesel	CARB Diesel	Production	Northern California	1,196	1,204
09/17/2031	Diesel	Other Diesel Fuel	Production	Northern California	195	196
09/17/2031	Residual	Residual	Production	Northern California	1,164	1,171
09/17/2031	Crude Oil	Crude Oil	Import	Northern California	8,201	8,126
09/17/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	8,169	8,197
09/17/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	1,672	1,678
09/17/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	8,060
09/17/2031	Jet Fuel	Jet Fuel	Production	Northern California	7,606	7,638
09/17/2031	Diesel	CARB Diesel	Production	Northern California	4,922	4,941
09/17/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,606	1,612
09/17/2031	Residual	Residual	Production	Northern California	4,789	4,808
09/17/2031	Crude Oil	Crude Oil	Import	Northern California	33,749	33,886
09/15/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	7,406	7,435
09/15/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	1,719	1,726
09/15/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	8,242
09/15/2031	Jet Fuel	Jet Fuel	Production	Northern California	7,781	7,812
09/15/2031	Diesel	CARB Diesel	Production	Northern California	5,036	5,056
09/15/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,643	1,649
09/15/2031	Residual	Residual	Production	Northern California	4,898	4,917
09/17/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	8,316	8,350
09/17/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	1,879	1,886
09/17/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	8,992
09/17/2031	Jet Fuel	Jet Fuel	Production	Northern California	8,485	8,520
09/17/2031	Diesel	CARB Diesel	Production	Northern California	5,492	5,514
09/17/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,791	1,798
09/17/2031	Residual	Residual	Production	Northern California	5,343	5,364
09/15/2031	Crude Oil	Crude Oil	Import	Northern California	37,491	37,642
09/15/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	8,261	8,294
09/15/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	1,917	1,925
09/15/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	8,991
09/15/2031	Jet Fuel	Jet Fuel	Production	Northern California	8,484	8,518
09/15/2031	Diesel	CARB Diesel	Production	Northern California	5,491	5,513
09/15/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,790	1,797
09/15/2031	Residual	Residual	Production	Northern California	5,342	5,363
09/17/2031	Crude Oil	Crude Oil	Import	Northern California	41,645	41,812
09/17/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	9,240	9,277
09/17/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	2,089	2,097
09/17/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	9,991
09/17/2031	Jet Fuel	Jet Fuel	Production	Northern California	9,427	9,465
09/17/2031	Diesel	CARB Diesel	Production	Northern California	6,102	6,126
09/17/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,990	1,998
09/17/2031	Residual	Residual	Production	Northern California	5,936	5,960
09/15/2031	Crude Oil	Crude Oil	Import	Northern California	41,645	41,812
09/15/2031	Gasoline	CARB Reformulated Gasoline	Production	Northern California	9,240	9,277
09/15/2031	Gasoline	Nonoxygenated Gasoline	Production	Northern California	2,089	2,097
09/15/2031	Gasoline	Gasoline Blending Components	Production	Northern California	0	9,991
09/15/2031	Jet Fuel	Jet Fuel	Production	Northern California	9,427	9,465
09/15/2031	Diesel	CARB Diesel	Production	Northern California	6,102	6,126
09/15/2031	Diesel	Other Diesel Fuel	Production	Northern California	1,990	1,998
09/15/2031	Residual	Residual	Production	Northern California	5,936	5,960

Table 14
Construction Equipment Emission Factors
PG&E: Northern San Joaquin 230 kV Transmission Project PEA

Construction Phase

OFFROAD Equipment Category	Horsepower	Load Factor	Year	Emission Factors (g/bhp-hr)								
				ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	CO_2	CH4
Aerial Lifts	63	0.31	2026	0.117	3.204	1.540	0.005	0.028	0.026	494.496	491.351	0.126
Air Compressors	78	0.48	2026	0.329	3.648	2.196	0.006	0.091	0.091	569.034	568.299	0.029
Bore/Drill Rigs	221	0.50	2026	0.111	1.043	0.821	0.005	0.027	0.025	493.278	490.183	0.124
Cement and Mortar Mixers	9	0.56	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Concrete/Industrial Saws	81	0.73	2026	0.271	3.492	2.074	0.006	0.078	0.078	568.895	568.300	0.024
Cranes	231	0.29	2026	0.219	1.685	1.863	0.005	0.075	0.069	494.393	491.233	0.126
Crawler Tractors	212	0.43	2026	0.238	1.288	2.190	0.005	0.085	0.078	494.133	490.958	0.127
Crushing/Proc. Equipment	85	0.78	2026	0.330	3.690	2.140	0.006	0.084	0.084	569.039	568.299	0.030
Dumpers/Tenders	16	0.38	2026	0.685	2.339	4.332	0.007	0.161	0.161	569.824	568.299	0.061
Excavators	158	0.38	2026	0.169	3.135	1.028	0.005	0.050	0.046	494.812	491.657	0.126
Forklifts	89	0.20	2026	0.278	3.649	2.397	0.005	0.116	0.107	494.068	490.883	0.127
Generator Sets	84	0.74	2026	0.230	3.334	2.077	0.006	0.076	0.076	568.799	568.299	0.020
Graders	187	0.41	2026	0.227	1.173	2.182	0.005	0.070	0.066	495.591	492.436	0.126
Off-Highway Tractors	124	0.44	2026	0.215	3.201	1.462	0.005	0.073	0.068	495.526	492.301	0.129
Off-Highway Trucks	402	0.38	2026	0.185	1.167	0.943	0.005	0.034	0.031	496.811	493.636	0.127
Other Construction Equipment	172	0.42	2026	0.220	3.135	1.826	0.005	0.093	0.086	492.644	489.534	0.124
Other General Industrial Equipment	88	0.34	2026	0.267	3.650	2.304	0.005	0.103	0.096	492.835	489.660	0.127
Other Material Handling Equipment	168	0.40	2026	0.195	3.203	1.245	0.005	0.063	0.059	494.590	491.435	0.126
Pavers	130	0.42	2026	0.204	3.071	1.600	0.005	0.076	0.072	494.843	491.648	0.128
Paving Equipment	132	0.36	2026	0.198	3.092	1.480	0.005	0.074	0.069	493.217	490.047	0.127
Plate Compactors	8	0.43	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Pressure Washers	13	0.30	2026	0.604	3.487	4.248	0.008	0.176	0.176	569.644	568.299	0.054
Pumps	84	0.74	2026	0.247	3.385	2.103	0.006	0.081	0.081	568.844	568.299	0.022
Rollers	80	0.38	2026	0.264	3.483	2.543	0.005	0.121	0.113	495.936	492.741	0.128
Rough Terrain Forklifts	100	0.40	2026	0.165	3.337	1.791	0.005	0.048	0.044	495.274	492.089	0.127
Rubber Tired Dozers	247	0.40	2026	0.365	1.641	3.410	0.005	0.147	0.136	496.529	493.319	0.128
Rubber Tired Loaders	203	0.36	2026	0.184	1.141	1.285	0.005	0.043	0.040	492.687	489.557	0.125
Scrapers	367	0.48	2026	0.225	1.622	1.852	0.005	0.073	0.067	494.866	491.691	0.127
Signal Boards	6	0.82	2026	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Skid Steer Loaders	65	0.37	2026	0.155	3.309	1.789	0.005	0.049	0.045	494.918	491.763	0.126
Surfacing Equipment	263	0.30	2026	0.136	1.141	1.209	0.005	0.046	0.043	493.001	489.886	0.125
Sweepers/Scrubbers	64	0.46	2026	0.295	3.672	2.568	0.005	0.133	0.122	496.127	492.952	0.127
Tractors/Loaders/Backhoes	97	0.37	2026	0.222	3.559	2.012	0.005	0.074	0.069	498.610	495.410	0.128
Trenchers	78	0.50	2026	0.447	3.736	3.935	0.005	0.254	0.236	497.641	494.381	0.130
Welders	46	0.45	2026	0.571	4.497	3.595	0.007	0.099	0.099	569.579	568.299	0.051

Notes:
Construction emission factors are based on year 2026.
Unless otherwise noted, Horsepower and Load Factors taken as the default, average values provided in Table 3.3 of Appendix D of the *CalEEMod User's Guide* (Environ, 2021).
Emission Factors in grams per brake-horsepower-hour (g/bhp-hr) taken as the defaults for the year 2024 provided in Table 3.4 of Appendix D of the *CalEEMod User's Guide* (Environ, 2021).

Operation and Maintenance Equipment

OFFROAD Equipment Category	Horsepower	Load Factor	Year	Emission Factors (g/bhp-hr)								
				ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e	CO_2	CH4
Aerial Lifts	63	0.31	2030	0.188	3.352	1.657	0.006	0.036	0.036	568.724	568.299	0.017
Air Compressors	78	0.48	2030	0.264	3.630	1.729	0.006	0.041	0.041	568.874	568.299	0.023
Bore/Drill Rigs	221	0.50	2030	0.127	1.035	0.274	0.006	0.010	0.010	568.574	568.299	0.011
Cement and Mortar Mixers	9	0.56	2030	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Concrete/Industrial Saws	81	0.73	2030	0.221	3.480	1.667	0.006	0.036	0.036	568.774	568.299	0.019
Cranes	231	0.29	2030	0.222	1.090	0.697	0.005	0.023	0.023	568.799	568.299	0.020
Crawler Tractors	212	0.43	2030	0.262	1.207	1.104	0.006	0.040	0.040	568.874	568.299	0.023
Crushing/Proc. Equipment	85	0.78	2030	0.272	3.673	1.708	0.006	0.038	0.038	568.899	568.299	0.024
Dumpers/Tenders	16	0.38	2030	0.685	2.340	4.332	0.007	0.161	0.161	569.824	568.299	0.061
Excavators	158	0.38	2030	0.213	3.362	0.525	0.006	0.023	0.023	568.774	568.299	0.019
Forklifts	89	0.20	2030	0.283	3.799	1.555	0.006	0.021	0.021	568.924	568.299	0.025
Generator Sets	84	0.74	2030	0.178	3.316	1.645	0.006	0.034	0.034	568.699	568.299	0.016
Graders	187	0.41	2030	0.216	1.148	0.684	0.006	0.024	0.024	568.774	568.299	0.019
Off-Highway Tractors	124	0.44	2030	0.373	3.435	1.916	0.006	0.104	0.104	569.124	568.299	0.033
Off-Highway Trucks	402	0.38	2030	0.216	1.104	0.458	0.005	0.017	0.017	568.774	568.299	0.019
Other Construction Equipment	172	0.42	2030	0.161	3.127	0.459	0.006	0.019	0.019	568.649	568.299	0.014
Other General Industrial Equipment	88	0.34	2030	0.309	3.802	1.766	0.006	0.043	0.043	568.974	568.299	0.027
Other Material Handling Equipment	168	0.40	2030	0.220	3.341	0.640	0.006	0.028	0.028	568.774	568.299	0.019
Pavers	130	0.42	2030	0.300	3.326	1.425	0.006	0.074	0.074	568.974	568.299	0.027
Paving Equipment	132	0.36	2030	0.290	3.306	1.363	0.006	0.070	0.070	568.949	568.299	0.026
Plate Compactors	8	0.43	2030	0.661	3.469	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Pressure Washers	13	0.30	2030	0.592	3.470	4.164	0.008	0.166	0.166	569.625	568.300	0.053
Pumps	84	0.74	2030	0.193	3.367	1.662	0.006	0.036	0.036	568.724	568.299	0.017
Rollers	80	0.38	2030	0.299	3.639	1.950	0.006	0.066	0.066	568.974	568.299	0.027
Rough Terrain Forklifts	100	0.40	2030	0.279	3.725	1.671	0.006	0.034	0.034	568.924	568.299	0.025
Rubber Tired Dozers	247	0.40	2030	0.335	1.322	1.828	0.006	0.069	0.069	569.049	568.299	0.030
Rubber Tired Loaders	203	0.36	2030	0.210	1.138	0.655	0.006	0.022	0.022	568.749	568.299	0.018
Scrapers	367	0.48	2030	0.259	1.184	1.057	0.005	0.040	0.040	568.874	568.299	0.023
Signal Boards	6	0.82	2030	0.661	3.470	4.142	0.008	0.161	0.161	569.774	568.299	0.059
Skid Steer Loaders	65	0.37	2030	0.214	3.538	1.477	0.006	0.017	0.017	568.774	568.299	0.019
Surfacing Equipment	263	0.30	2030	0.169	1.032	0.738	0.005	0.025	0.025	568.674	568.299	0.015
Sweepers/Scrubbers	64	0.46	2030	0.261	3.703	1.569	0.006	0.023	0.023	568.874	568.299	0.023
Tractors/Loaders/Backhoes	97	0.37	2030	0.272	3.705	1.624	0.006	0.030	0.030	568.899	568.299	0.024
Trenchers	78	0.50	2030	0.409	3.743	2.559	0.006	0.132	0.132	569.199	568.299	0.036
Welders	46	0.45	2030	0.449	4.387	3.273	0.007	0.045	0.045	569.299	568.299	0.040

Note:
1. CO2e were calculated using the following global warming potential (GWP, 100-year GWP from IPCC Fifth Assessment Report , 2014)

CO2	1
CH4	25
N2O	298

Pick-up Truck	Light-duty Truck
¾-Ton Pick-up Truck, 4 × 4	Light-duty Truck
1 Ton Crew Cab Flat Bed	Light-duty Truck
10 Cu Concrete Mixer Truck	Heavy-duty Diesel
10-Cu Dump Truck	Heavy-duty Diesel
10k LB Forklift	Forklifts
1-Ton Crew Cab Flatbed, 4 × 4	Light-duty Truck
20,000 lbs, Fork Lift	Forklifts
22 Ton Manitex	Cranes
30 Ton Crane	Cranes
30 Ton Manitex	Cranes
4 Drum rope Puller	Other Construction Equipment
580 Case Backhoe	Tractors/Loaders/Backhoes
60,000 lbs Puller	Other Construction Equipment
All Terrain Crane - 180 Ton	Cranes
Auger Truck	Bore/Drill Rigs
Backhoe - Front Loader	Tractors/Loaders/Backhoes
Backhoe and Trailer	Tractors/Loaders/Backhoes
Backhoe/Front Loader	Tractors/Loaders/Backhoes
Boom truck	Cranes
bucket truck	Heavy-duty Diesel
Compressor Trailer	air compressors
D8 Cat	Tractors/Loaders/Backhoes
Drill Rig	Bore/Drill Rigs
Drill Rig/Auger Truck	Bore/Drill Rigs
Drum Type Compactor	Plate Compactors
F250 4X4 Crewcab (3/4 T) Foreman	Light-duty Truck
Fuel Helicopter Support	Heavy-duty Diesel
Hughes 500 Helicopter	Helicopter
Inspector Vehicles (Civil, Structural, Wire)	Light-duty Truck
Jet A Fuel Truck	Heavy-duty Diesel
Light-duty Truck	Light-duty Truck
Low boy Truck and Trailer	Heavy-duty Diesel
Lowboy Truck/Trailer	Heavy-duty Diesel
Lowboy Truck/Trailer Pole Truck	Heavy-duty Diesel
manitex crane	Cranes
Material Haul Trucks (10 trucks, used first	Light-duty Truck
Pick-up Truck	Light-duty Truck
reel trailer	Heavy-duty Diesel
Road Grader	Graders
Safetey Inspection	Light-duty Auto/Truck
Sag Cat Winch	Other Construction Equipment
sock line puller	Other Construction Equipment
street sweeper	Heavy-duty Diesel
Truck - 40 'flat trailer	Heavy-duty Diesel
Truck - Framer (Crew Pick Up)	Light-duty Truck
Truck Cranes - 20 - 30 Ton	Cranes
Water Truck	Heavy-duty Diesel
Worker Commutes	Light-duty Auto/Truck
1-Ton Truck	Light-duty Truck
22 Ton Crane	Cranes
30 Ton Crane	Cranes
40' Aerial Lifts	Aerial lifts
80' Aerial Lifts	Aerial lifts
Air Compressor	air compressors
Boom Truck	Heavy-duty Diesel
Bulldozer	rubber tired dozers
Compactor	plate compactors
Compactor / Roller	Rollers
Concrete Truck	heavy-duty diesel
Crawler Backhoe	Tractors/Loaders/Backhoes
Dump Truck	Heavy-duty Diesel
Flat Bed Truck	Heavy-duty Diesel
Forklift	Forklifts
Foundation Drill Rig	Bore/Drill Rigs
Front Loader	Tractors/Loaders/Backhoes
Grader	Graders
Inspector Vehicles	light-duty auto/truck
Inspectors	light-duty auto/truck
Manlift	Aerial lifts
Material Haul Trucks	Heavy-duty Diesel
Mechanics Truck	Light-duty Auto/Truck
Office Trailer	Generator sets
Pick-up Truck	Light-duty Truck
Rigging Truck	Heavy-duty Diesel
Safetey Inspection	Light-duty Auto/Truck
Small Backhoe	Tractors/Loaders/Backhoes
Storage Container	
Truck Drivers	Light-duty Auto/Truck
Worker Commutes	Light-duty Auto/Truck
testing truck	Light-duty Auto/Truck
Inspector vehicles	Light-duty Auto/Truck
Detailed Ground and Aerial	Light-duty Auto/Truck
Light-duty Auto/Truck	Light-duty Auto/Truck
Monthly Visual Inspections/ Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck
Yearly Inspections/Maintenance (PG&E Standard TD3322-S)	Light-duty Auto/Truck
Insulator Washing only if needed and called out by inspector	Heavy-duty Diesel
5 year inspection and maintenance (some could be every 2 or 8 years for various items)	Light-duty Auto/Truck
Insulator Washing only if needed and calle	Heavy-duty Diesel
3/4-Ton Pick-up Truck	Light-duty Truck
Jack Hammer	Other Construction Equipment
Direction Drill Machine -HDD	Bore/Drill Rigs
Vacumm Truck- Pump Intake	Pumps
2 Stationary Pumps	Pumps
10-Cu Asphalt/Concrete Truck	Heavy-duty Diesel
10-Cu Dump Truck	Heavy-duty Diesel
Water Truck	Heavy-duty Diesel
Excavator/Ditch Witch	excavators
Backhoe/Front Loader	backhoes
Road Grader	Graders
Drum Type Compactor	compactors
10 ton fork lift	Forklifts
30 Ton Crane	Cranes
boom truck	Cranes
Cable puller Truck, 4 × 4	light-duty truck
120' Aerial Lifts	Aerial Lifts

1	Ton Truck
1	Ton Crane
1	Ton Crane
1	Aerial Lifts
1	Aerial Lifts
1	ompressor
1	oom Truck
1	Bulldozer
1	Compactor
1	or / Roller
1	rete Truck
1	r Backhoe
1	ump Truck
1	struction.
1	Bed Truck
1	Forklift
1	n Drill Rig
1	nt Loader
1	Grader
1	r Vehicles
1	Inspectors
1	Manlift
1	aul Trucks
1	nics Truck
1	ice Trailer
1	Phase 1: Civil Site Preparation
1	Phase 1a: Exterior Walls, Final Grading, and Paving
1	Phase 1b: All Foundations, Excavation, and Installation
1	Phase 2: Equipment Installation
1	Phase 3: Dress/Test/Wire Equipment
1	Phase 4A: Rebuild existing Substation
1	Phase 4D - 4F: Rebuild existing Substation
1	Phase 5A -5D: Rebuild existing Substation
1	k-up Truck
1	ging Truck
1	Inspection
1	ll Backhoe
1	Container
1	Structure Delivery and Setup
1	Truck Drivers
1	Commutes
1	
0	Ton Truck
0	Ton Truck
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0	struction.
0	Bed Truck
0	Forklift
0	Forklift
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0	ging Truck
0	ging Truck
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0	Container
0	Container


Container

TABLE A-16
Aircraft Emission Factors

Aircraft Type	Emission Factors (lbs/LTO) [a, b]						
	ROG	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2e
Twin Medium	4.010	5.330	1.950	0.290	0.060	0.060	424.200

Notes:

[a] Emission Factors in pounds per Landing and Take-off (lbs/LTO) found in Table 6-12 of the *Year 2011 Gulfwide Emission Inventory Study* , which was prepared by the U.S. Department of the Interior, Bureau of Ocean Energy Management (BOEM), Gulf of Mexico OCS Region (BOEM, 2014).

Table 6-12. FOCA average emission factors by helicopter type

Helicopter Type	Fuel/ LTO (kg)	Emission Factors (lbs/LTO)									
		NO_X[1]	HC[1]	VOC[2]	CO[1]	PM_{10}[1]	$PM_{2.5}$[3]	SO_2[4]	CO_2[5]	N_2O[5]	CH_4[5]
Single	57.31	0.68	1.93	1.87	2.48	0.02	0.02	0.12	176.69	0.01	0.01
Twin Light	94.31	0.95	5.28	5.13	6.93	0.03	0.03	0.20	290.78	0.02	0.02
Twin Medium	134.45	1.95	4.13	4.01	5.33	0.06	0.06	0.29	414.51	0.03	0.03
Twin Heavy	327.03	8.82	2.76	2.68	3.43	0.22	0.22	0.70	1008.27	0.07	0.06

[1] FOCA 2009
[2] HC to VOC = * 0.9708
[3] $PM_{2.5}$ = 97.6% of PM_{10}
[4] SO_2 (g/gal) = (fuel density) × (conversion factor) × (64 g SO_2/32 g S) × (S content of fuel)
[5] EIA 2012

The emission factors developed from this project were applied to the activity data to estimate emissions using the following equation:

$$E_i = EF_i / 2000 \times LTO_i$$

where:

E_i = Helicopter emisions for helicopter type i (tons per year)
EF_i = Helicopter emission factor for helicopter type i (pounds/LTO)
LTO_i = Landing and take off cycle for helicopter type i (cycles per year)
i = Helicopter type (i.e., single, light, or medium)
2000 = Conversion factor pounds per ton

Appendix F1
PG&E Lockeford Substation
Geotechnical Investigation Report

GEOTECHNICAL INVESTIGATION REPORT
PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

PROJECT NO. 20193961.001A

JUNE 10, 2019

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June 10, 2019
Project No. 20193961.001A

Pacific Gas and Electric Company
6111 Bollinger Canyon Road, Room 2460-A
San Ramon, CA 94583

Attention: Grant Wilcox, PE, PG, CEG
Grant.wilcox@pge.com

Joseph Sun, PhD, PE, GE
jis4@pge.com

SUBJECT: Geotechnical Investigation Report

PROJECT: PG&E Northern San Joaquin Reinforcement – Lockeford Substation
PG&E Order No. / Operation Code: 74007150/3750
12861 East Kettleman Lane
Lodi, California

Dear Mr. Wilcox and Dr. Sun:

The attached report presents the results of Kleinfelder's geotechnical investigation for the Northern San Joaquin Reinforcement at the Lockeford Substation, located in Lodi, California. The report describes the study, findings, conclusions, and recommendations for use in project design and construction. Kleinfelder's services are authorized by our proposal dated February 26, 2019 and revised on March 6, 2019 and were performed in general accordance with the terms of our Master Services Agreement No. 4400007810.

The primary geotechnical concern at this site is shallow foundation support and potential caving of drilled pier excavations due to the loose silty sand and perched groundwater encountered in the upper 5 feet of all borings performed outside the existing substation. Based on the information gathered during this study, it is Kleinfelder's professional opinion that the subject site is geotechnically suitable for construction of the proposed improvements using conventional grading, shallow and deep foundation systems. Recommendations for shallow slab, spread footing, and drilled pier foundations are provided in this report. The recommendations presented herein should be incorporated into project design and construction

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Recommendations for design of foundations, site grading, and other geotechnical considerations are presented in this report. The recommendations presented in this report should be incorporated into project design and construction. Kleinfelder appreciates the opportunity to provide geotechnical engineering services to PG&E during the design phase of this project. If there are any questions concerning the information presented in this report, please contact this office at your convenience.

Respectfully Submitted,

KLEINFELDER, INC.





Hadi Fattal, EIT
Staff Engineer

Lee Abramson, PE, GE
Senior Principal Geotechnical Engineer

CC: Kris Johnson (kjjohnson@kleinfelder.com)
Liana Serrano (lserrano@kleinfelder.com)

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A-2 Soil Description Key
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APPENDIX B – LABORATORY TEST RESULTS

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B-2 Atterberg Limits
Corrosion Test Results Summary

APPENDIX C – GBA INFORMATION SHEET

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1 INTRODUCTION

This report presents the results of a geotechnical investigation conducted for the Northern San Joaquin Reinforcement at the PG&E Lockeford Substation, located at 12861 East Kettleman Lane, in Lodi, California. A site vicinity map is shown on Figure 1. Kleinfelder was retained by PG&E to provide geotechnical engineering services for the project. The purpose of the investigation was to evaluate the subsurface conditions at the site and develop geotechnical engineering recommendations to aid in project design and construction. Kleinfelder has previously submitted a report titled, "*Geotechnical Investigation Report, PG&E Lockeford Substation Improvements, 12861 East Kettleman Lane, Lodi, California*," dated June 9, 2016. This report was referenced during the development of the conclusions and recommendations.

1.1 PROPOSED CONSTRUCTION

Project understanding is based on the Geotechnical Investigation Request (GIR) dated January 17, 2019 and email and telephone correspondence with Grant Wilcox and Joseph Sun through March 1, 2019. We understand that PG&E plans to expand the existing Lockeford Substation as part of the Northern San Joaquin Reinforcement Project. The expansion will include construction of four breaker-and-a-half (BAAH) bays to support a total of eight element positions as well as a storm water basin, an SMP building, a battery building, a new substation fence, a new access road, and a new entrance into Lockeford Substation. At this time, foundation loading and dimensions for the aforementioned structures has not been provided.

1.2 PURPOSE AND SCOPE OF SERVICES

The purpose of this investigation was to explore and evaluate subsurface conditions at the site and develop geotechnical conclusions and recommendations for use in project design, specification development, and construction. To accomplish these purposes, Kleinfelder's scope of services includes the following:

- Review of existing geologic and geotechnical data for the site vicinity.
- Drilling and sampling of four soil borings to explore subsurface conditions and to obtain samples for laboratory testing.

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- Laboratory testing of selected samples to assess pertinent geotechnical properties.
- Evaluation of the available data to develop conclusions and recommendations to guide geotechnical aspects of design and construction.
- Preparation of this report.

Environmental evaluations and analyses, including detailed review of possible contaminants in the foundation soils, are outside of our scope of services.

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2 FIELD EXPLORATION AND LABORATORY TESTING

2.1 FIELD EXPLORATION

Prior to subsurface exploration, exploration locations were marked, and Underground Service Alert (USA) was contacted to provide utility clearance in the public right-of-way. A project-specific safety plan (PSSP) was prepared for the field exploration activities. This plan was discussed with the field crews prior to the start of field exploration work.

2.1.1 Exploratory Borings

Four borings, labeled B-1 through B-4, were drilled by Gregg Drilling of Martinez, California using a S-24 drill rig capable of hollow stem augers. Approximate exploration locations are shown on Figure 2. Exploration locations were designated in the field by measuring from existing landmarks. Horizontal coordinates and elevations of the borings were not surveyed.

The borings were drilled between April 9 and April 10, 2019. Borings B-1, B-2, B-3, and B-4 were drilled to depths of approximately 26½ feet, 51 ½ feet, 26½ feet, and 31 ½ feet, respectively.

Logs of the borings are provided in Appendix A. Our borings were cleared to a depth of about 4 feet below the ground surface using hand auger methods to confirm the absence of a grounding grid or other buried conflicts. Borings B-1 through B-4 were drilled using hollow stem auger methods from depths of about 4 to the end of each respective boring.

A Kleinfelder field-engineer maintained logs of the borings, visually classified the soils encountered per the Unified Soil Classification System (presented on Figure A-3 through A-6 in Appendix A) and obtained samples of the subsurface materials. Soil classifications made in the field from samples and auger cuttings were made in accordance with ASTM D2488. These classifications were re-evaluated in the laboratory after further examination and testing in accordance with ASTM D2487. Sample classifications, blow counts recorded during sampling, and other related information were recorded on the boring logs. The blow counts listed on the boring logs are raw values and have not been corrected for the effects of overburden pressure, rod length, sampler size, or hammer efficiency.

Keys to the soil descriptions and symbols used on the boring logs are presented on Figures A-1, A-2 of Appendix A.

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2.1.2 Sampling Procedures

Below the hand auger depth, soil samples were collected from the borings at depth intervals of approximately 2½ to 5 feet. Samples were collected from the borings at selected depths by driving either a 2.5-inch inside diameter (I.D.) California sampler or a 1.4-inch I.D. Standard Penetration Test (SPT) sampler driven 18 inches (unless otherwise noted) into undisturbed soil. The samplers were driven using a 140-pound automatic hammer free-falling a distance of 30 inches. Blow counts were recorded at 6-inch intervals for each sample attempt and are reported on the logs.

The SPT sampler did not contain liners. The 2.5-inch I.D. California sampler contained stainless steel liners. The California sampler was in general conformance with ASTM D3550. The SPT sampler was in conformance with ASTM D1586.

Soil samples obtained from the borings were packaged and sealed in the field to reduce moisture loss and disturbance. Following drilling, the samples were returned to our laboratory for further examination and testing. After the borings were completed they were backfilled with cement grout. Drilling spoils were contained in 55-gallon drums for analytical testing and staged inside the substation, for future disposal by our subcontractor.

2.2 LABORATORY TESTING

Laboratory tests were performed on selected samples to evaluate the physical and engineering properties of the materials encountered. Tests included the following:

- Percent passing the No. 200 sieve (ASTM D1140)
- Atterberg limits (ASTM D4318)
- Natural water content (ASTM D2216)
- Corrosion Suite:
    - Soluble Sulfate Content (ASTM D4327)
    - Soluble Chloride Content (ASTM D4327)
    - pH (ASTM D4972)
    - Minimum Resistivity (ASTM G57)
    - Redox (ASTM D1498)
    - Sulfide (ASTM D4658)

Results of most of the laboratory tests are included on the boring logs in Appendix A. Complete laboratory test data are presented in Appendix B.

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3 GEOLOGIC CONDITIONS

3.1 AREA AND SITE GEOLOGY

According to geologic mapping by Marchand and Bartow (1979), the substation area is underlain by Quaternary aged terrace and alluvial fan deposits of the Upper Modesto and Lower Riverbank formations. In the project area, these soils generally consist of silts, sands, and gravels with minor clays. Regional groundwater levels in the area are greater than 70 feet deep based on DWR well records near the site.

3.2 LOCAL AND REGIONAL FAULTING

The substation is not located within a State-designated Alquist-Priolo Earthquake Fault Zone where site-specific studies addressing the potential for surface fault rupture are required, and no known active faults traverse the site. The nearest zoned faults to the project site are the Greenville fault (located about 40 miles to the southwest), Calavaras fault (located about 51 miles to the southwest), Hayward fault (located about 59 miles to the southwest), and San Andreas fault zone (located about 78 miles to the southwest).

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4 SITE CONDITIONS

4.1 SITE AND SURFACE DESCRIPTION

The existing Lockeford Substation is located at 12861 East Kettleman Lane in Lodi, California. The site is located within a rural agricultural area and is about 1,500 feet northeast of the Bear Creek. The site is bounded to the east and west by orchards, to the south by East Kettleman Lane and vineyards, and to the north by a vineyard and a field of annual crops (not identified). The site is relatively flat inside the existing substation where the grounds are covered with gravel. The expansion area to the northwest of the existing fence line is also relatively flat.

4.2 SUBSURFACE CONDITIONS

The subsurface conditions encountered in our borings are in general agreement with the mapped geology. The following description provides a general summary of the subsurface conditions encountered during this study. For more thorough descriptions of the actual conditions encountered at specific boring locations, refer to the boring logs located in Appendix A.

Approximately ½ a foot of topsoil was encountered at the surface of the boring locations. The topsoil was underlain by a variation of sandy lean clay and clayey sand to an approximate depth of 4 feet, after which, a hard clayey layer was encountered which is commonly referred to as hardpan. Perched ground water was also found in Borings 3 and 4 at the depth of the hardpan.. The hard pan was underlain by a variation of clayey sand, sandy lean clay, and interbedded silty sand and sandy silt layers, until the end of each respective boring. Apparent densities of coarse-grained soils beneath the hardpan ranged from dense to very dense, and the consistency of fine-grained soils was generally hard.

4.3 GROUNDWATER

According to regional well record data published by the State Water Resources Control Board (https://www.waterboards.ca.gov/), regional groundwater levels are generally greater than 70 feet below the ground surface. Regional groundwater was not encountered during our explorations. However, it should be noted that perched water was encountered at a depth of about 5 feet within the hardpan layer encountered in Boring B-3 and B-4.

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It is possible that groundwater conditions at the site could change due to variations in rainfall and runoff, regional groundwater withdrawal or recharge, construction activities, or other factors not apparent at the time the study was performed.

4.4 VARIATIONS IN SUBSURFACE CONDITIONS

Our interpretations of soil and groundwater conditions at the site are based on the conditions encountered in the borings drilled for this project. The conclusions and recommendations that follow are based on those interpretations. If soil or groundwater conditions exposed during construction vary from those presented in this report, Kleinfelder should be notified to evaluate whether our conclusions or recommendations should be modified.

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5 CONCLUSIONS AND RECOMMENDATIONS

The following sections discuss conclusions and recommendations with respect to geologic and seismic hazards, California Building Code (CBC) design considerations, site preparation and grading, and foundation design.

5.1 2016 CBC SEISMIC DESIGN PARAMETERS

5.1.1 Site Class

In developing seismic design criteria, the characteristics of the soils underlying the site are an important input to evaluate the site response. According to the 2016 California Building Code (CBC), the project site may be classified as Site Class D, Stiff Soil, according to Section 1613.3.2 of 2016 CBC and Table 20.3-1 of American Society of Civil Engineers (ASCE) 7-10 (2010). Site Class D is defined as a soil profile consisting of stiff soil profile with a shear wave velocity between 600 feet per second and 1,200 feet second, standard penetration test (SPT) blow counts (N-value) between 15 blows per foot and 50 blows per foot, or undrained shear strength between 1,000 pounds per square foot and 2,000 pound per square foot in the top 100 feet.

5.1.2 Seismic Design Parameters

Approximate coordinates for the site are noted below.

- Latitude: 38.117944°N
- Longitude: 121.158938°W

For a 2016 California Building Code (CBC) based design, the estimated Maximum Considered Earthquake (MCE) mapped spectral accelerations for 0.2 second and 1 second periods (S_S and S_1), associated soil amplification factors (F_a and F_v), and mapped peak ground acceleration (PGA) are presented in Table 5-1. Corresponding site modified (S_{MS} and S_{M1}) and design (S_{DS} and S_{D1}) spectral accelerations, PGA modification coefficient (F_{PGA}), PGA_M, risk coefficients (C_{RS} and C_{R1}), and long-period transition period (T_L) are also presented in Table 5-1. Presented values were estimated using Section 1613.3 of the 2016 California Building Code (CBC), chapters 11 and 22 of ASCE 7-10, and the United States Geological Survey (USGS) U.S. seismic design maps (https://seismicmaps.org/).

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Table 5-1
Ground Motion Parameters Based on 2016 CBC

Parameter	Value	Reference
S_S	0.662g	2016 CBC Section 1613.3.1
S_1	0.279g	2016 CBC Section 1613.3.1
Site Class	D	2016 CBC Section 1613.3.2
F_a	1.270	2016 CBC Table 1613.3.3(1)
F_v	1.842	2016 CBC Table 1613.3.3(2)
PGA	0.225g	ASCE 7-10 Figure 22-7
S_{MS}	0.841g	2016 CBC Section 1613.3.3
S_{M1}	0.514g	2016 CBC Section 1613.3.3
S_{DS}	0.561g	2016 CBC Section 1613.4.4
S_{D1}	0.343g	2016 CBC Section 1613.4.4
F_{PGA}	1.351	ASCE 7-10 Table 11.8-1
PGA_M	0.303g	ASCE 7-10 Section 11.8.3
C_{RS}	1.111	ASCE 7-10 Figure 22-17
C_{R1}	1.148	ASCE 7-10 Figure 22-18
T_L	12 seconds	ASCE 7-10 Figure 22-12

5.2 LIQUEFACTION

Earthquake-induced soil liquefaction can be described as a significant loss of soil strength and stiffness caused by an increase in pore water pressure resulting from cyclic loading during shaking. Liquefaction is most prevalent in loose to medium dense, sandy and gravely soils below the groundwater table but can also occur in non-plastic to low-plasticity, finer-grained soils. The potential consequences of liquefaction to engineered structures include loss of bearing capacity, buoyancy forces on underground structures, ground oscillations or “cyclic mobility,” increased lateral earth pressures on retaining walls, liquefaction settlement, and lateral spreading or “flow failures” in slopes.

Based on the relative density, soil type, and depth to groundwater at the site, the potential for liquefaction is considered negligible.

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5.3 EXPANSIVE SOILS

Based on the results of an Atterberg limits test performed on a near-surface sample of sandy clay (Boring B-1 at a depth of about 3 feet), the surficial soils have low expansion potential (Liquid Limit of 23 and Plasticity Index of 10). Based on the low expansion potential and density of these soils, we do not anticipate they will shrink or swell significantly as a result of soil moisture content changes. Given the presence of perched ground water however, we do recommend replacing the upper 6-inches with import non-expansive fill material beneath all slabs, which is discussed further in Section 5.10.2.5.

5.4 SITE PREPARATION

5.4.1 General

Considering site grades are presently well established, site grading is anticipated to be minimal, minus the grading for the proposed pond. General recommendations for site preparation and earthwork construction are presented in the following sections of this report. All earthwork, including excavation, backfill and preparation of subgrade, should be performed in accordance with the geotechnical recommendations presented in this report and applicable portions of the grading code of local regulatory agencies. The grading contractor is responsible to notify governmental agencies, as required, and the geotechnical engineer at the start of site cleanup, the initiation of grading and any time that grading operations are resumed after an interruption. All earthwork should be performed under the observation and testing of a Kleinfelder representative. All references to compaction, maximum density and optimum moisture content are based on ASTM D1557, unless otherwise noted.

5.4.2 Stripping and Grubbing

Any miscellaneous surface obstructions, vegetation, debris or other deleterious materials should be removed from the project area prior to any site grading. The stripped materials should not be incorporated into any engineered fill. Existing pavements to be demolished should include removal of the pavement and aggregate base materials.

5.4.3 Disturbed Soil, Undocumented Fill and Subsurface Obstructions

Initial site grading should include a reasonable search to locate soil disturbed by previous activity and abandoned underground structures or existing utilities that may exist within the areas of

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construction. Any loose or disturbed soils, void spaces that may be encountered should be over-excavated to expose firm native soil, as approved by a representative of Kleinfelder.

Unless approved otherwise by an on-site representative of Kleinfelder during grading, undocumented fills at the locations of any future grading or shallow foundations should be over-excavated and replaced with engineered fill as recommended below in the “Engineered Fill-Placement and Compaction Criteria” section of this report.

5.4.4 Scarification and Compaction

In areas requiring placement of fill, it is recommended the fill be placed and compacted as engineered fill. Following site stripping and any required grubbing and/or over-excavation, it is recommended areas to receive engineered fill be scarified to a depth of 8 inches, uniformly moisture conditioned to at least the optimum moisture content for sandy soils (SP, SM, SC) or at least 3 percent above the optimum moisture content for clayey soils (CL, CH) and compacted to at least 90 percent relative compaction for sandy soils or between 88 and 92 percent relative compaction for clayey soils, as determined by ASTM D1557.

5.5 ENGINEERED FILL

5.5.1 Onsite Materials

The on-site soil appears suitable for use as engineered fill. All engineered fill should be free of debris, significant organics, or other deleterious materials, and have a maximum particle size less than 3 inches in maximum dimension. Where imported material is brought in, it is recommended that it be granular in nature and conform to the minimum criteria discussed in Table 5-2.

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5.5.2 Non-Expansive Engineered Fill Requirements

Specific requirements for engineered fill as well as applicable test procedures to verify material suitability are provided below:

Table 5-2
Engineered Fill Requirements

Fill Requirement		Test Procedures	
		ASTM	Caltrans
Gradation			
Sieve Size	**Percent Passing**		
3 inch	100	D6913	202
¾ inch	70-100	D6913	202
No. 200	20-50	D6913	202
Plasticity			
Liquid Limit	**Plasticity Index**		
<30	<12	D4318	204
Organic Content			
No visible organics		---	---
Expansion Potential			---
20 or less		D4829	---
Soluble Sulfates			
Less than 2,000 ppm		---	417
Soluble Chloride			
Less than 300 ppm		---	422
Resistivity			
Greater than 2,000 ohm-cm		---	643

Materials to be used for engineered fill should be sampled and tested by Kleinfelder prior to being transported to the site. Highly pervious materials such as clean crushed stone or pea gravel are not recommended for use in engineered fill because they can permit transmission of water into the underlying materials. We recommend representative samples of imported materials proposed for use as engineered fill be submitted to Kleinfelder for testing and approval at least one week prior to the start of grading and import of this material.

In addition, we recommend that a laboratory corrosion test series (pH, resistivity, redox, sulfides, chlorides, and sulfates) be performed on all proposed import materials.

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5.5.3 Placement and Compaction Criteria

Non-expansive soils that meet the criteria outlined in Table 5-2 that are to be used for engineered fill should be uniformly moisture conditioned to at least the optimum moisture content, placed in horizontal lifts less than about 8 inches in loose thickness, and compacted to at least 90 percent relative compaction, as determined by ASTM D1557. Onsite clayey soils to be used for general fill where engineered fill is not required should be uniformly moisture conditioned to at least 4 percent over the optimum moisture content, placed in horizontal lifts no more than about 8 inches in loose thickness, and compacted to between 88 and 92 percent relative compaction, as determined by ASTM D1557.

Additional fill lifts should not be placed if the previous lift did not meet the required relative compaction or moisture content, or if soil conditions are not stable. Disking or blending may be required to uniformly moisture condition soils used for engineered fill. Ponding or jetting compaction methods should not be allowed.

All site preparation and fill placement should be observed by Kleinfelder. It is important that during the stripping and scarification processes, a representative of Kleinfelder be present to observe whether any undesirable material is encountered in the construction area and whether exposed soils are similar to those encountered during the geotechnical site exploration.

5.6 WET WEATHER CONSIDERATIONS

Should construction be performed during or subsequently after wet weather, near-surface site soils may be significantly above the optimum moisture content. These conditions could hamper equipment maneuverability and efforts to compact site soils to the recommended compaction criteria. Disking to aerate, chemical treatment, replacement with drier material, stabilization with a geotextile fabric or geogrid, or other methods may be required to mitigate the effects of excessive soil moisture and facilitate earthwork and construction operations.

5.7 SITE DRAINAGE

Final site grading should provide surface drainage away from all structures and areas to be traversed by vehicles and maintenance equipment. In general, we recommend consideration be given to providing at least 2 percent slope away from structure foundations or access ways.

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5.8 TEMPORARY EXCAVATIONS

5.8.1 General

All excavations should comply with applicable local, state, and federal safety regulations including the current Occupational Safety & Health Administration (OSHA) Excavation and Trench Safety Standards. Construction site safety generally is the responsibility of the Contractor, who is responsible for the means, methods, and sequencing of construction operations. Kleinfelder is providing the information below solely as a service to the client. Under no circumstances should the information provided be interpreted to mean that Kleinfelder is assuming responsibility for construction site safety or the Contractor's activities. Such responsibility is not being implied and should not be inferred.

5.8.2 Excavation and Slopes

Excavated slope height, slope inclination, or excavation depths (including utility trench excavations) should in no case exceed those specified in local, state, and/or federal safety regulations (e.g., OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926, or successor regulations). Such regulations are strictly enforced and, if they are not followed, the Owner, Contractor, and/or earthwork and utility subcontractors could be liable for substantial penalties.

Underground utilities should be located above a 1H:1V (horizontal to vertical) plane projected down and out from the bottoms of new footings to avoid undermining the footings during the excavation of the utility trench.

Heavy construction equipment, building materials, excavated soil, and vehicular traffic should be kept sufficiently away from the top of any excavation to prevent any unanticipated surcharging. Alternatively, excavation slopes and shoring systems can be designed to accommodate surcharge loadings, if necessary. Shoring, bracing, or underpinning required for the project (if any), should be designed by a professional engineer registered in the State of California.

5.9 TRENCH BACKFILL

All trench backfill should be placed and compacted in accordance with recommendations provided for engineered fill (see Section 5.5.3). Mechanical compaction is recommended. Ponding or jetting should not be used as a sole means of soil compaction.

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5.10 SHALLOW FOUNDATIONS

This section provides general recommendations for shallow foundations. Kleinfelder should review the design to ensure compliance with the intent of the geotechnical conclusions and recommendations provided in this report.

Foundations should satisfy two independent criteria with respect to foundation soils. First, the foundation should have an adequate safety factor against bearing failure with respect to the shear strength of the foundation soils. Second, the vertical movements of the foundation due to settlement (both immediate elastic settlement and consolidation settlement) should be within tolerable limits for the structure. Depending on the settlement tolerance of planned structures, design loading, and foundation dimensions, the general recommendations presented in this report may be subject to modification. If future project needs require additional foundation capacity, Kleinfelder should be contracted to evaluate this potential for specific foundation designs.

Lightly-loaded structures may be supported on conventional, shallow, reinforced concrete mat foundations or spread footings, provided the site structures can tolerate the anticipated settlement.

5.10.1 Spread Footings

5.10.1.1 Allowable Bearing Pressure

Shallow spread footings constructed of reinforced concrete may be founded on approved undisturbed native soil and/or engineered fill. The footings should be founded at least 18 inches below lowest adjacent finished grade on subgrade soils that have been prepared in accordance with the recommendations provided in this report. Continuous and isolated rectangular footings should have a minimum width of 12 inches.

For foundation subgrade prepared in accordance with the recommendations provided in this report, spread and strip footings may be designed for a net allowable bearing pressure of up to 3,000 pounds per square foot (psf) due to dead plus live loads. The weight of the foundation that extends below grade may be neglected when computing dead loads. The allowable bearing pressure includes a safety factor of at least 3 with respect shear failure of the foundation soils and may be increased by one-third for transient loading due to wind or seismic forces.

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To maintain the desired support, foundations adjacent to utility trenches or other existing foundations should be deepened so that their bearing surfaces are below an imaginary plane having an inclination of 1 horizontal to 1 vertical, extending upward from the bottom edge of the adjacent foundations or utility trenches.

5.10.1.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the foundations. An allowable coefficient of sliding friction of 0.40 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the footing is protected from disturbance by concrete or pavement. The allowable friction coefficient and passive resistance may be used concurrently.

5.10.1.3 Settlement

Total settlement of an individual foundation will vary depending on the plan dimensions of the foundation and the actual load supported. Foundation dimensions and loads have not been provided for the proposed structures, we estimate maximum total settlement of foundations designed and constructed in accordance with the preceding recommendations of up to about ½ inch or less. Differential settlement between similarly loaded, adjacent footings are estimated to be about half the total settlement. The majority of foundation settlement is expected to occur rapidly and should be essentially complete shorty after initial application of the loads.

5.10.1.4 Shallow Foundation Construction Considerations

Prior to placing steel or concrete, foundation excavations should be cleaned of any debris, disturbed soil or water. All foundation excavations should be observed by a representative of Kleinfelder just prior to placing fill and/or steel or concrete. The purpose of these observations is to check that the bearing soils actually encountered in the foundation excavations are similar to those assumed in analysis and to verify the recommendations contained herein are implemented during construction.

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5.10.2 Mat Foundations

Recommendations for design and construction of small mat slab foundations up to about 25 feet wide are presented below. Kleinfelder should be consulted to provide supplementary mat foundation recommendations if larger mat slab foundations are planned in the future.

5.10.2.1 Allowable Bearing Pressure

For subgrades prepared as recommended in this report, reinforced concrete mat foundations may be designed for a net allowable bearing pressure of 3,000 psf. If higher allowable bearing capacity for mat foundations is required, Kleinfelder should be consulted to provide supplemental engineering and construction recommendations on a case-by-case basis. The allowable bearing pressure applies to dead plus live loads, includes a safety factor of at least 3 with respect to shear failure of the foundation soils, and may be increased by one-third for short-term loading due to wind or seismic forces.

5.10.2.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the foundations. An allowable coefficient of sliding friction of 0.40 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the foundation is protected from disturbance by concrete or pavement. The friction coefficient and passive resistance may be used concurrently.

5.10.2.3 Subgrade Modulus

For preliminary design purposes, a modulus of subgrade reaction, K_{v1}, of 150 pounds per square inch per inch of deflection (for a 1 square-foot bearing plate) may be used for design of mat slabs. The modulus should be adjusted for the actual slab size using appropriate formulas or software.

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5.10.2.4 Mat Slab Settlement

For foundations with design pressures equal to or less than the net allowable pressure provided above, and under static loading conditions, total post-construction foundation settlement is expected to be less than about ½ inch at the center of the mat foundations. Post-construction differential settlement of individual foundation elements is expected to be about one-half the total settlement.

These settlement estimates are based on the assumption that the foundation subgrade is properly prepared, and the foundations are designed and constructed in accordance with the recommendations presented in this report.

5.10.2.5 Mat Foundation Construction Considerations

Underground utilities that are 4 feet deep or shallower and that run parallel to shallow mat foundations generally should be located no closer than 2 feet horizontally away from the perimeter edges of the slab. Deeper utilities should be located above a 1H:1V (horizontal to vertical) slope projected downward from the bottom edges of the slab. Utility plans should be reviewed by Kleinfelder prior to trenching to evaluate conformance with this requirement.

Beneath exterior cast-in-place concrete mat foundations, we recommend the design include a base course of well-graded crushed aggregate base at least 6 inches thick. Aggregate base materials should meet current Caltrans specifications for Class 2 aggregate base. Under slabs that will be subject to vehicle loading, the aggregate base course thickness should be increased to a minimum of 6 inches. The base course should be compacted to at least 95 percent relative compaction at optimum moisture content. Thickened slab edges embedded to at least 18 inches below grade need not be underlain by the gravel base course.

If a capillary break and vapor mitigation under mat slabs are required by the architect, the 6-inch thick layer of Class 2 aggregate base may be omitted and replaced with 6 inches of crushed rock with less than 5 percent passing the No. 4 sieve, such as Caltrans Class 2 permeable material. The capillary break rock layer should be overlain by a vapor retarder membrane that meets ASTM E1745 requirements. Installation should meet architectural and manufacturer recommendations. Although capillary break and vapor retarded systems are commonly used, these systems will not “moisture proof” the floor slab or otherwise ensure floor slab moisture transmission rates will meet project requirements.

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5.11 DRILLED PIER FOUNDATIONS

Recommendations for design and construction of drilled pier foundations are presented in the following sections of this report.

5.11.1 Axial Capacity

Axial pile capacity was developed based on Federal Highway Administration methods using the commercial computer software SHAFT, version 2017, produced by Ensoft, Inc. Static soil strength parameters are based on strength and soil properties measured during the field and laboratory testing phases of this investigation.

Axial loads on drilled piers should be supported by the frictional capacity of the pier. End bearing is not considered in the axial capacity due to strain incompatibility issues between skin friction and end bearing, settlement issues, and the potential for loose materials to exist at the bottoms of the pier holes during construction that cannot be effectively cleaned out. If additional axial capacity is required beyond what is provided in this report, Kleinfelder should be consulted to provide a portion of end bearing capacity and additional construction recommendations.

A curve illustrating the ultimate axial compressive capacity of a unit (1-foot) diameter straight-sided drilled pier installed from the existing grade under static conditions is shown on Figure 3a. Corresponding tabulated values are presented on Figure 3b. Capacities for drilled piers with diameters other than 1 foot may be obtained by multiplying the capacity for the 1-foot diameter pier by the actual pier diameter (in feet). Ultimate tensile capacity may be obtained by multiplying the compressive capacity by a factor of 0.8 and adding the weight of the foundation. For evaluation of allowable axial capacity under static conditions, we recommend a factor of safety of 3 be applied to the ultimate capacity (per the General Order 95 code). Note that the weight of the foundation need not be considered for evaluation of allowable axial capacity. For allowable tension capacity under transient flood, wind or seismic conditions, a safety factor of at least 1.5 should be used. For allowable sustained tension, a safety factor of 3 should be used.

5.11.1.1 Estimated Settlement

Based on the methods outlined by Brown et al. (2010), total static settlement of each drilled pier should be on the order of 0.1 percent of the pier diameter for a drilled pier designed and constructed in accordance with the recommendations presented in this report. This value includes elastic compression of the pile under design loads. The majority of the settlement should occur during and shortly after application of the structure loads. We suggest allowing for about ¼ inch

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of settlement to accommodate potential long-term settlement, construction issues, and some soil variability across the site.

5.11.1.2 Axial Capacity Group Effects

The axial capacity of piers developed in accordance with the recommendations provided above applies to single, isolated piers. Consideration of group effects on axial capacity of drilled piers is usually not necessary for piers with center-to-center spacings of at least 3 effective diameters. For closer spacings the capacity of individual piers will be reduced. For these cases Kleinfelder should be consulted to evaluate axial capacity on a case-by-case basis. Note that group effects should also be considered where new foundations are constructed immediately adjacent to existing foundations.

5.11.2 Lateral Response

5.11.2.1 LPILE Analysis Soil Parameters

Lateral capacity of drilled piers may be developed through analysis of pier response due to a range of design loads. Table 5-3 contains recommended input soil parameters for lateral response analysis of deep foundations using the LPILE computer program (by Ensoft, Inc., Version 2018. Program default values may be used for strain factor (E_{50}) and horizontal subgrade reaction (K).

Table 5-3
LPILE Geotechnical Parameters
Static Conditions

Depth (feet)	Model P-Y Curve	Effective Unit Weight (lb/ft^3)	Cohesion c (psf)	Internal Friction Angle, Φ (degrees)
0 to 30	Sand (Reese)	120	-	35

5.11.3 Drilled Pier Construction Considerations

Successful completion of drilled pier foundations requires good construction procedures. Drilled pier excavations should be constructed by a skilled operator using techniques that allow the excavations to be completed, the reinforcing steel placed, and the concrete poured in a continuous manner to reduce the time that excavations remain open. Steel reinforcement and concrete should be placed on the same day of completion of each pier excavation. Additionally,

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drilled pier excavations should be scheduled to allow concrete in each pile to set over night before drilling adjacent holes that are closer than 4 diameters center-to-center.

The following considerations should be implemented during construction of drilled shaft foundations. We recommend the contractor follow the procedures for drilled pier construction contained in the Federal Highway Administration (FHWA) manual on drilled shaft construction (Brown et al., 2010).

Consistent with Chapter 17 of the 2016 CBC, drilled pier excavations should be inspected and approved by the geotechnical engineer prior to installation of reinforcement. The depths of all pier excavations should be checked immediately prior to concrete placement to verify excessive sloughing and/or caving has not reduced the required hole depth. This may be done with a weighted tape measure or similar measuring device.

As described above, perched groundwater may be encountered at shallower depths depending on local rainfall and runoff patterns at the time of construction. The contractor should be prepared to handle shallow groundwater and possibly caving sandy soil conditions during construction of drilled piers at the site.

Drilled shaft excavations extending below groundwater levels should be cleaned such that less than about 1 inch of loose soil remains at the bottom of the drilled hole. Since the piers should be designed to derive their support in skin friction along the sides of the shafts, consideration could be given to over-drilling the shafts to accommodate any sloughing that may occur between drilling and concrete placement. It is recommended that a representative from Kleinfelder observe each drilled shaft excavation to verify soil and excavation conditions prior to placing steel reinforcement or concrete.

Steel reinforcement and concrete should be placed on the same day the drilled hole is completed to reduce the potential for caving and reduce the quantity of suspended soil particles that may settle to the bottom of the hole during wet-method construction. Excavation depths should be checked several times before concrete placement to ensure excessive sedimentation has not occurred. Concrete used for pier construction should be discharged vertically into the drilled hole to reduce aggregate segregation. Under no circumstances should concrete be allowed to free-fall against either the steel reinforcement or the sides of the excavation during shaft construction. Sufficient space should be provided in the pier reinforcement cage during fabrication to allow the

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insertion of a pump hose or tremie tube for concrete placement. The pier reinforcement cage should be installed, and the concrete pumped immediately after drilling is completed.

In order to develop the design skin friction values provided in the axial capacity figures, concrete used for drilled pier construction should have a slump ranging from 4 to 6 inches if placed in a dry shaft without temporary casing, and from 6 to 8 inches if temporary casing or slurry drilling methods are used. The concrete mix should be designed with appropriate admixtures and/or water/cement ratios to achieve these recommended slumps. Adding water to a conventional mix to achieve the recommended slump should not be allowed. For concrete mixes with slumps over 6 inches, vibration of the concrete during placement is generally not recommended as aggregate settlement may result in the lack of aggregate within the upper portion of the pile.

If water or drilling fluids are present during concrete placement, concrete should be placed into the hole using tremie methods. Tremie concrete placement should be performed in strict accordance with ACI 304R. The tremie pipe should be rigid and remain below the surface of the in-place concrete at all times to maintain a seal between the water or slurry and fresh concrete. The upper concrete seal layer will likely become contaminated with excess water and soil as the concrete is placed and should be removed to expose uncontaminated concrete immediately following completion of concrete placement. It has been our experience that the concrete seal layer may be on the order of 3 to 5 feet thick but will depend on the pile diameter, amount of water seepage, and construction workmanship.

As noted above, perched groundwater and caving sandy soils may be encountered during drilled pier construction. Use of slurry drilling methods may be needed to reduce the potential for caving in the drilled pier excavations where groundwater levels are above the bottom of the excavation. Use of slurry drilling methods normally requires experienced construction personnel to batch and mix the slurry, test the slurry for proper mixing, hydration, viscosity and other important properties, and to monitor slurry performance during drilling. If slurry drilling methods are used, we recommend use of a polymer slurry that meets Caltrans requirements for drilled shaft construction or bentonite-based slurry, mixed and used in accordance with the guidelines in the FHWA Drilled Shaft Manual (Brown et al., 2010). This guideline recommends bentonite slurry mixtures not be left in the hole for more than about 4 hours in order to avoid potential side friction losses that may be caused by excessive thickness of bentonite filter cake on the hole wall.

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If caving conditions are encountered in a drilled pier excavation and there are no overhead clearance issues, temporary casing could be used to help mitigate this condition. If temporary steel casing is used, it should be removed from the hole as concrete is being placed. The bottom of the casing should be maintained below the top of the concrete during casing withdrawal and concrete placement operations. Casing should not be withdrawn until sufficient quantities of concrete have been placed into the excavation to balance the groundwater head outside the casing. Continuous vibration of the casing or other methods may be required to reduce the potential for voids occurring within the concrete mass during casing withdrawal. Corrugated metal pipe should not be used as casing. In no case should casing material be left in the excavation after concrete has been placed without the approval of the project structural and geotechnical engineers. Concrete should be in direct contact with the surrounding soil or the design parameters and recommendations in the geotechnical report are not valid.

5.12 SOIL CORROSION

Kleinfelder has completed laboratory testing to provide data regarding corrosivity of onsite soils. Our scope of services does not include corrosion engineering and, therefore, a detailed analysis of the corrosion test results is not included in this report. A qualified corrosion engineer should be retained to review the test results and design protective systems that may be required. Kleinfelder may be able to provide those services.

Laboratory chloride concentration, sulfate concentration, pH, oxidation reduction potential, redox, sulfide and electrical resistivity tests were performed for a near surface soil sample. The results of the tests are attached and are summarized in Table 5-4. If fill materials will be imported to the project site, similar corrosion potential laboratory testing should be completed on the imported material.

Table 5-4
Chemistry Laboratory Test Results

Boring and Depth	Material	Resistivity, ohm-cm	Resistivity, ohm-cm (Saturated)	pH	Oxidation Reduction Potential, mV	Water-Soluble Ion Concentration, ppm		
						Chloride	Sulfide	Sulfate
B-1 & B-2 @ 1-4 ft.	Sand	6,500	8,600	6.92	320	N.D.*	N.D.*	N.D.*
B-3 & B-4 @ 1-4 ft.	Sand	6,100	6,400	6.74	340	N.D.*	N.D.*	N.D.*

*N.D. - None Detected

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Ferrous metal and concrete elements in contact with soil, whether part of a foundation or part of the supported structure, are subject to degradation due to corrosion or chemical attack. Therefore, buried ferrous metal and concrete elements should be designed to resist corrosion and degradation based on accepted practices.

Based on the “10-point” method developed by the American Water Works Association (AWWA) in standard AWWA C105/A21.5, the potential for the soils at the site to be corrosive to buried ferrous metal piping, cast iron pipes, or other objects made of these materials is negligible. We recommend that a corrosion engineer be consulted to recommend appropriate protective measures.

The degradation of concrete or cement grout can be caused by chemical agents in the soil or groundwater that react with concrete to either dissolve the cement paste or precipitate larger compounds within the concrete, causing cracking and flaking. The concentration of water-soluble sulfates in the soils is a good indicator of the potential for chemical attack of concrete or cement grout. The American Concrete Institute (ACI) in their publication “Guide to Durable Concrete” (ACI 201.2R-08) provides guidelines for this assessment. The samples had sulfate concentrations of non-dedectible (N.D.), which indicates the potential for deterioration of concrete is mild to negligible, and no special requirements should be necessary for the concrete mix.

Concrete and the reinforcing steel within it are at risk of corrosion when exposed to water-soluble chloride in the soil or groundwater. Chloride tests indicated the sample had concentrations below the detectable limit.

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6 ADDITIONAL SERVICES

6.1 PLANS AND SPECIFICATIONS REVIEW

Kleinfelder should conduct a general review of plans and specifications to evaluate that the earthwork and foundation recommendations presented in this report have been properly interpreted and implemented during design. In the event Kleinfelder is not retained to perform this recommended review, no responsibility for misinterpretation of the recommendations by Kleinfelder is accepted.

6.2 CONSTRUCTION OBSERVATION AND TESTING

It is recommended that all earthwork and foundation construction be monitored by a representative from Kleinfelder, including site preparation, placement of all engineered fill and trench backfill, construction of slab and all foundation excavations. The purpose of these services is to observe the soil conditions encountered during construction, evaluate the applicability of the recommendations presented in this report to the soil conditions encountered, and recommend appropriate changes in design or construction procedures if conditions differ from those described herein.

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7 LIMITATIONS

This report presents information for planning, permitting, design, and construction of the new electrical structures and perimeter fence at the Lockeford Substation in Lodi, California. Recommendations contained in this report are based on materials encountered in Borings B-1 through and B-4, geologic interpretation based on published articles and geotechnical data, and our present knowledge of the proposed construction.

It is possible that soil conditions could vary beyond the points explored. If the scope of the proposed construction, including the proposed location, changes from that described in this report, we should be notified immediately in order that a review may be made, and any supplemental recommendations provided.

We have prepared this report in accordance with the generally accepted geotechnical engineering practice as it exists in the site area at the time of our study. No warranty expressed or implied is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

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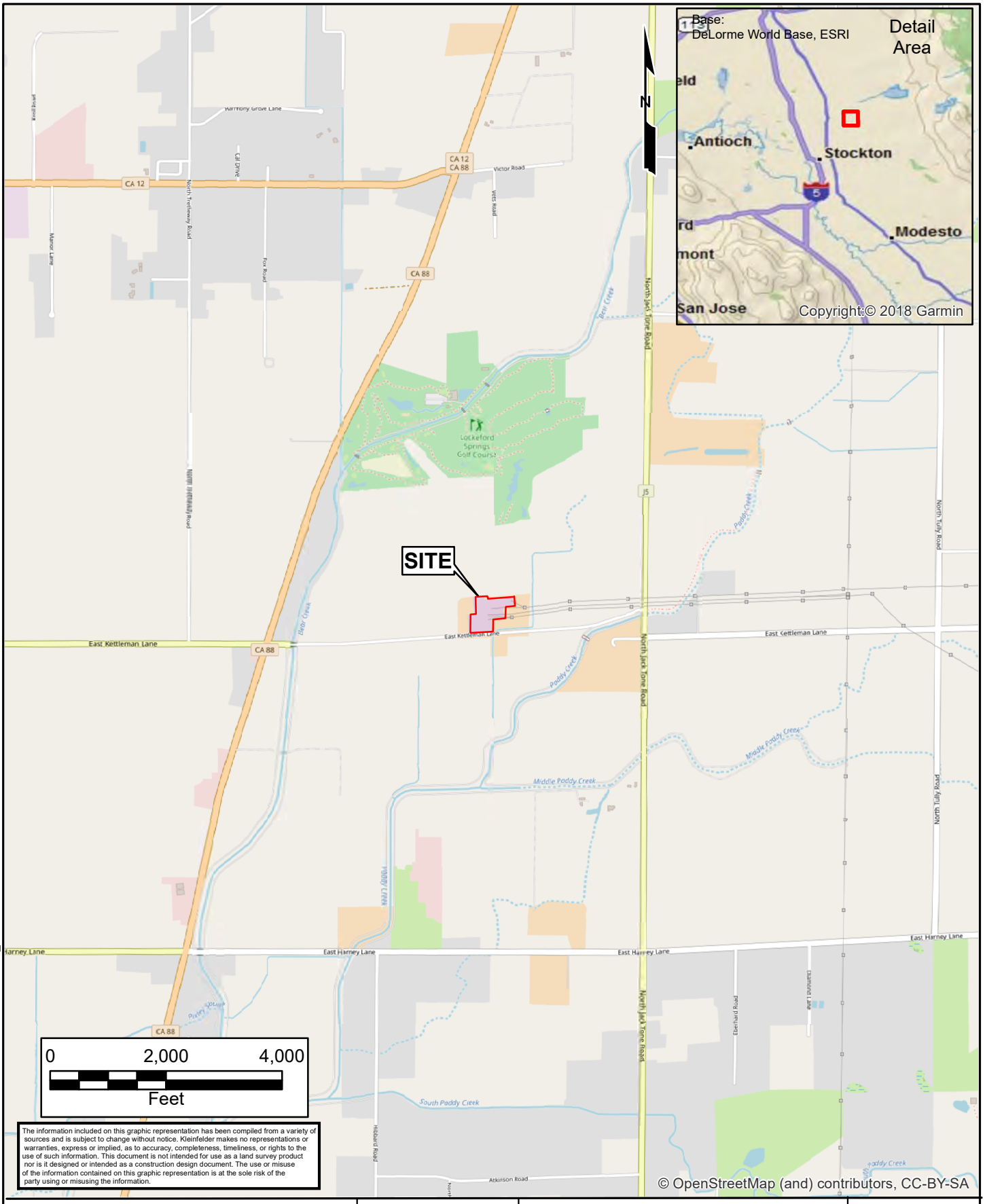
FIGURES



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SITE VICINITY MAP

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
1

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LEGEND

FENCE LINE

SOIL BORING

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EXPLORATION LOCATION PLAN

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE

2

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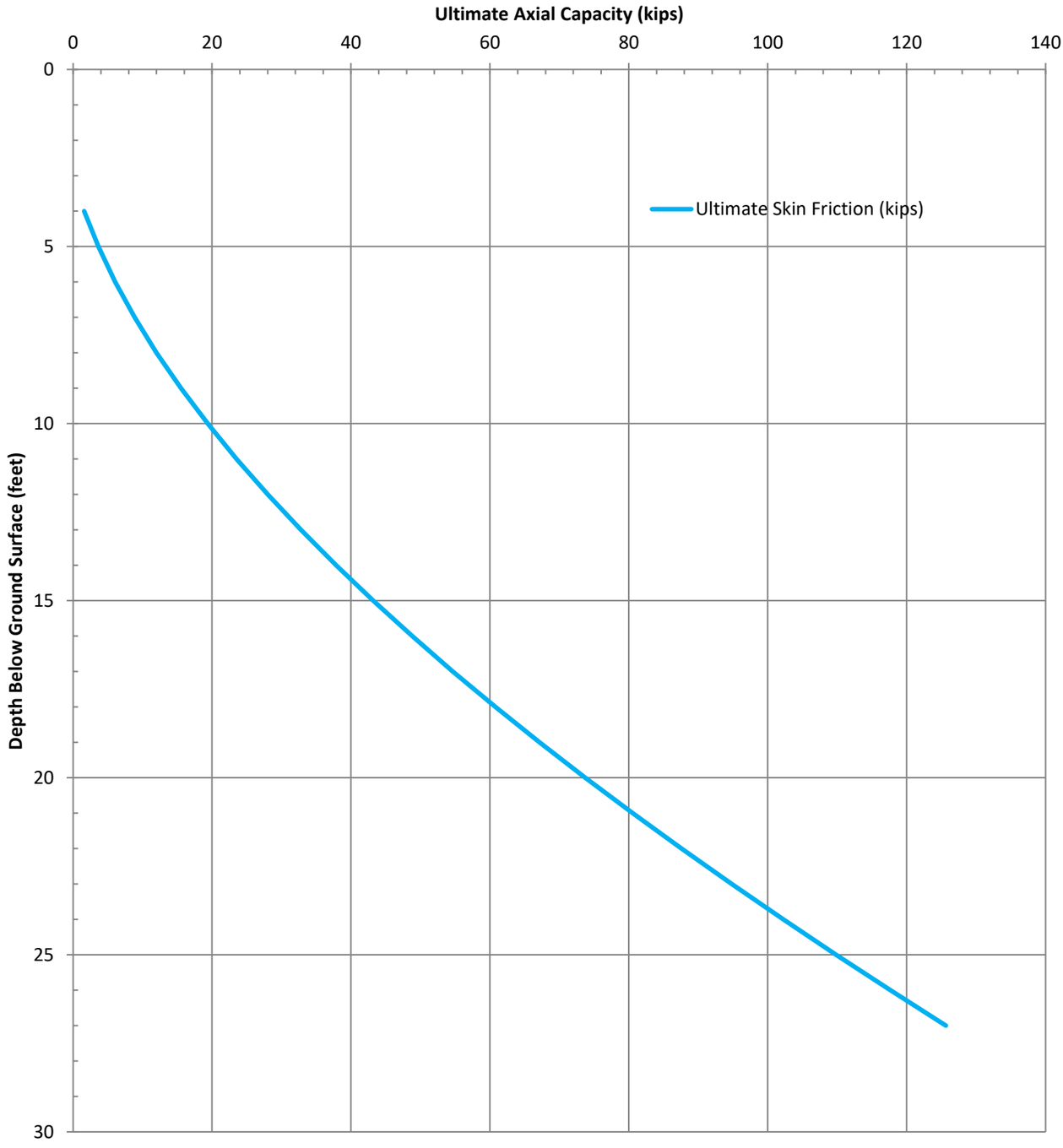

Notes:

1. Axial capacities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CA

FIGURE
3A

Depth (ft)	Ultimate Axial Capacity (Kips)	Depth (ft)	Ultimate Axial Capacity (Kips)
4	1.6	18	60.8
5	3.6	19	67.1
6	6.0	20	73.7
7	8.8	21	80.5
8	12.0	22	87.6
9	15.5	23	94.8
10	19.4	24	102.2
11	23.5	25	109.8
12	28.0	26	117.7
13	32.8	27	125.6
14	37.8		
15	43.2		
16	48.8		

Notes:

1. Axial capcities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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DRAWN BY:	HF
CHECKED BY:	KG
DATE:	5/7/2019
REVISED:	

ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CA

FIGURE
3B

APPENDIX A

FIELD EXPLORATION

SAMPLE/SAMPLER TYPE GRAPHICS

BULK SAMPLE

CALIFORNIA SAMPLER
(3 in. (76.2 mm.) outer diameter)

STANDARD PENETRATION SPLIT SPOON SAMPLER
(2 in. (50.8 mm.) outer diameter and 1-3/8 in. (34.9 mm.) inner diameter)

GROUND WATER GRAPHICS

WATER LEVEL (level where first observed)

WATER LEVEL (level after exploration completion)

WATER LEVEL (additional levels after exploration)

OBSERVED SEEPAGE

NOTES

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.
- If sampler is not able to be driven at least 6 inches then 50/X indicates number of blows required to drive the identified sampler X inches with a 140 pound hammer falling 30 inches.

ABBREVIATIONS
WOH - Weight of Hammer
WOR - Weight of Rod

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)

COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	**GRAVELS** (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu≥4 and 1≤Cc≤3		**GW**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			Cu<4 and/ or 1>Cc>3		**GP**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH 5% TO 12% FINES	Cu≥4 and 1≤Cc≤3		**GW-GM**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
			Cu<4 and/ or 1>Cc>3		**GP-GM**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		GRAVELS WITH > 12% FINES			**GM**	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
					GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
					GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
	SANDS (More than half of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu≥6 and 1≤Cc≤3		**SW**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			Cu<6 and/ or 1>Cc>3		**SP**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH 5% TO 12% FINES	Cu≥6 and 1≤Cc≤3		**SW-SM**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
			Cu<6 and/ or 1>Cc>3		**SP-SM**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		SANDS WITH > 12% FINES			**SM**	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
					SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
					SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES

FINE GRAINED SOILS (More than half of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)	**ML**	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Liquid Limit greater than 50)	**MH**	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

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DATE:	4/22/2019
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GRAPHICS KEY

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE

A-1

PLOTTED: 05/06/2019 04:10 PM BY: MPalmer
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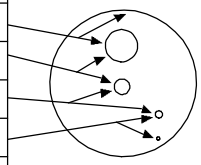
GRAIN SIZE

DESCRIPTION		SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders		>12 in. (304.8 mm.)	>12 in. (304.8 mm.)	Larger than basketball-sized
Cobbles		3 - 12 in. (76.2 - 304.8 mm.)	3 - 12 in. (76.2 - 304.8 mm.)	Fist-sized to basketball-sized
Gravel	coarse	3/4 -3 in. (19 - 76.2 mm.)	3/4 -3 in. (19 - 76.2 mm.)	Thumb-sized to fist-sized
	fine	#4 - 3/4 in. (#4 - 19 mm.)	0.19 - 0.75 in. (4.8 - 19 mm.)	Pea-sized to thumb-sized
Sand	coarse	#10 - #4	0.079 - 0.19 in. (2 - 4.9 mm.)	Rock salt-sized to pea-sized
	medium	#40 - #10	0.017 - 0.079 in. (0.43 - 2 mm.)	Sugar-sized to rock salt-sized
	fine	#200 - #40	0.0029 - 0.017 in. (0.07 - 0.43 mm.)	Flour-sized to sugar-sized
Fines		Passing #200	<0.0029 in. (<0.07 mm.)	Flour-sized and smaller



SECONDARY CONSTITUENT

	AMOUNT	
Term of Use	Secondary Constituent is Fine Grained	Secondary Constituent is Coarse Grained
Trace	<5%	<15%
With	≥5 to <15%	≥15 to <30%
Modifier	≥15%	≥30%

MOISTURE CONTENT

DESCRIPTION	FIELD TEST
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

CEMENTATION

DESCRIPTION	FIELD TEST
Weakly	Crumbles or breaks with handling or slight finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

CONSISTENCY - FINE-GRAINED SOIL

CONSISTENCY	SPT - N_{60} (# blows / ft)	Pocket Pen (tsf)	UNCONFINED COMPRESSIVE STRENGTH (Q_u)(psf)	VISUAL / MANUAL CRITERIA
Very Soft	<2	PP < 0.25	<500	Thumb will penetrate more than 1 inch (25 mm). Extrudes between fingers when squeezed.
Soft	2 - 4	0.25 ≤ PP <0.5	500 - 1000	Thumb will penetrate soil about 1 inch (25 mm). Remolded by light finger pressure.
Medium Stiff	4 - 8	0.5 ≤ PP <1	1000 - 2000	Thumb will penetrate soil about 1/4 inch (6 mm). Remolded by strong finger pressure.
Stiff	8 - 15	1 ≤ PP <2	2000 - 4000	Can be imprinted with considerable pressure from thumb.
Very Stiff	15 - 30	2 ≤ PP <4	4000 - 8000	Thumb will not indent soil but readily indented with thumbnail.
Hard	>30	4 ≤ PP	>8000	Thumbnail will not indent soil.

FROM TERZAGHI AND PECK, 1948; LAMBE AND WHITMAN, 1969; FHWA, 2002; AND ASTM D2488

REACTION WITH HYDROCHLORIC ACID

DESCRIPTION	FIELD TEST
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

APPARENT / RELATIVE DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPT-N_{60} (# blows/ft)	MODIFIED CA SAMPLER (# blows/ft)	CALIFORNIA SAMPLER (# blows/ft)	RELATIVE DENSITY (%)
Very Loose	<4	<4	<5	0 - 15
Loose	4 - 10	5 - 12	5 - 15	15 - 35
Medium Dense	10 - 30	12 - 35	15 - 40	35 - 65
Dense	30 - 50	35 - 60	40 - 70	65 - 85
Very Dense	>50	>60	>70	85 - 100

FROM TERZAGHI AND PECK, 1948

PLASTICITY

DESCRIPTION	LL	FIELD TEST
Non-plastic	NP	A 1/8-in. (3 mm.) thread cannot be rolled at any water content.
Low (L)	< 30	The thread can barely be rolled and the lump or thread cannot be formed when drier than the plastic limit.
Medium (M)	30 - 50	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump or thread crumbles when drier than the plastic limit.
High (H)	> 50	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump or thread can be formed without crumbling when drier than the plastic limit.

STRUCTURE

DESCRIPTION	CRITERIA
Stratified	Alternating layers of varying material or color with layers at least 1/4-in. thick, note thickness.
Laminated	Alternating layers of varying material or color with the layer less than 1/4-in. thick, note thickness.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear polished or glossy, sometimes striated.
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown.
Lensed	Inclusion of small pockets of different soils, such as small lenses of sand scattered through a mass of clay; note thickness.

ANGULARITY

DESCRIPTION	CRITERIA
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces.
Subangular	Particles are similar to angular description but have rounded edges.
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges.
Rounded	Particles have smoothly curved sides and no edges.

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PROJECT NO.:	20193961
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CHECKED BY:	AS
DATE:	4/22/2019
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SOIL DESCRIPTION KEY

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE

A-2

PLOTTED: 05/06/2019 04:10 PM BY: MPalmer
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PROJECT NUMBER: 20193961.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [LEGEND 2 (SOIL DESC KEY)]

Date Begin - End:	4/09/2019	**Drilling Company:**	Gregg Drilling	**BORING LOG B-1**	
Logged By:	A. Sadat	**Drill Crew:**	Louie Wens		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	S24/S97/Liftgate	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear	**Exploration Diameter:**	8 in. O.D.		

FIELD EXPLORATION

Latitude: 38.11871°
Longitude: -121.16069°
Surface Condition: Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in. Pocket Pen(PP)= tsf	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		TOPSOIL: Grass and roots												hand auger
		Clayey SAND (SC): non-plastic, reddish brown, wet, soft, roots from the adjacent trees	Bulk #1											
			Bulk #2					19.4				23	10	
		Sandy Silty CLAY (CL-ML): non-plastic, reddish brown, moist, hard, strongly cemented (Hard Pan)	Bulk #3											
5			Bulk #4		BC=8 18 24	18"	CL-ML	11.7			56	20	4	switched to hollow stem auger
		Clayey SAND (SC): fine-grained sand, low plasticity, reddish brown, moist, dense	1											
		Sandy SILT (ML): medium plasticity, reddish brown, moist, hard	2		BC=7 16 26	18"	ML				61	20	3	
10		**Clayey SAND (SC)**: low plasticity, reddish brown, dry, very dense	3		BC=23 38 50	18"								
15		yellowish brown, dense, blacks streaks	4		BC=11 21 23	18"								
		trace gravel												
20			5		BC=9 15 24	18"								
25		very dense	6		BC=9 14 36	18"								
		Sandy SILT (ML): low plasticity, yellowish brown, moist, hard												
30														

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with grout on April 09, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20193961
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DATE:	4/22/2019
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BORING LOG B-1

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
A-3

PAGE: 1 of 1

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Date Begin - End:	4/09/2019	**Drilling Company:**	Gregg Drilling		**BORING LOG B-2**
Logged By:	A. Sadat	**Drill Crew:**	Louie Wens		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	S24/S97/Liftgate	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear	**Exploration Diameter:**	8 in. O.D.		

Latitude: 38.11859°
Longitude: -121.16019°
Surface Condition: Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in. Pocket Pen(PP)= tsf	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		TOPSOIL: Grass with roots												hand auger
		Sandy Lean CLAY (CL): low plasticity, reddish brown, moist	BULK #1			18"								
		Sandy Lean CLAY (CL): fine-grained sand, low plasticity, reddish brown, dry, hard, strongly cemented (Hard Pan)												switched to hollow stem auger
5			1		BC=11 50	18"								
		Sandy Lean CLAY (CL): low plasticity, yellowish brown, dry, hard, weakly cemented	2		BC=10 22 29	18"								
10		**Clayey SAND (SC)**: low plasticity, yellowish brown, moist, very dense	3		BC=18 29 38	18"								
15		coarse-grained sand, trace gravel	4		BC=6 12 42	18"					33			
20		olive brown, very dense, moderately cemented	5		BC=12 15 26	6"								
25		**Clayey SAND with Gravel (SC)**: non-plastic, yellowish brown, moist, very dense	6		BC=9 32 42	18"								
		Sandy SILT (ML): low plasticity, yellowish brown, moist, hard, weakly cemented	7		BC=7 18 26	18"								
30		**SILT with Sand (ML)**: low plasticity, yellowish brown, moist, hard	8		BC=10 14 26									

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BORING LOG B-2

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
A-4

gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20193961.001A
OFFICE FILTER: PLEASANTON
PLOTTED: 05/10/2019 10:32 AM BY: JSala

Date Begin - End:	4/09/2019	**Drilling Company:**	Gregg Drilling	**BORING LOG B-2**	
Logged By:	A. Sadat	**Drill Crew:**	Louie Wens		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	S24/S97/Liftgate	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION Latitude: 38.11859° Longitude: -121.16019° Surface Condition: Grass Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in. Pocket Pen(PP)= tsf	Recovery (NR=No Recovery)	LABORATORY RESULTS USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Sandy Lean CLAY (CL): low plasticity, yellowish brown, moist, very stiff	9		BC=9 13 22 PP=3.5 PP=4.5	12"								
40		**Poorly graded SAND with Clay (SP-SC)**: non-plastic, yellowish brown, moist, very dense	10		BC=18 30 50 PP=3.5	18"								
45		**Sandy Lean CLAY (CL)**: low plasticity, yellowish brown, moist, hard	11		BC=11 11 27	18"								
50		**SILT with Sand (ML)**: low plasticity, yellowish brown, moist, hard	12		BC=7 13 25	18"								
55														
60														
65														

The boring was terminated at approximately 51.5 ft. below ground surface. The boring was backfilled with grout on April 09, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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BORING LOG B-2

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
A-4

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Date Begin - End:	4/10/2019	**Drilling Company:**	Gregg Drilling	**BORING LOG B-3**	
Logged By:	A. Sadat	**Drill Crew:**	Louie Wens		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	S24/S97/Liftgate	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear	**Exploration Diameter:**	8 in. O.D.		

Latitude: 38.11861°
Longitude: -121.15908°
Surface Condition: Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in. Pocket Pen(PP)= tsf	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		TOPSOIL: Grass and organic roots												hand auger to 4 feet
		Clayey SAND (SC): fine-grained sand, low plasticity, dark reddish brown, wet, soft, roots from the adjacent trees	BULK #1											
			BULK #2					17.0						
		Sandy CLAY (CL): low plasticity, wet, hard, strongly cemented (Hard Pan)												switched to hollow stem auger
5		**Poorly graded SAND (SP)**: fine to medium-grained sand, non-plastic, reddish brown, moist, very dense	1		BC=5 6 8	18"								perched groundwater encountered
		Clayey SAND (SC): medium-grained sand, low plasticity, reddish yellow, moist, very dense, weakly cemented	2		BC=8 16 47	18"								
10			3		BC=13 24 29	18"								
15		fine to medium-grained, dark brown	4		BC=13 31 37	18"								
20		**Sandy SILT (ML)**: medium plasticity, light brown gray, moist, hard, trace gravel	5		BC=14 27 39	18"								
		Poorly graded SAND (SP): fine to coarse-grained sand, non-plastic, wet, very dense												
25		**Silty SAND (SM)**: fine-grained sand, low plasticity, olive yellow, moist, medium dense	6		BC=5 10 12	12"								
30														

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with grout on April 10, 2019.

GROUNDWATER LEVEL INFORMATION:
Perched groundwater was encountered at approximately 4 ft. below ground surface during drilling.
GENERAL NOTES:

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BORING LOG B-3

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
A-5

PAGE: 1 of 1

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Date Begin - End:	4/10/2019	**Drilling Company:**	Gregg Drilling	**BORING LOG B-4**	
Logged By:	A. Sadat	**Drill Crew:**	Louie Wens		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	S24/S97/Liftgate	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear	**Exploration Diameter:**	8 in. O.D.		

Latitude: 38.11770°
Longitude: -121.15919°
Surface Condition: Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in. Pocket Pen(PP)= tsf	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		TOPSOIL: Grass and organic roots												hand auger to 4 feet 4 inches
		Clayey SAND (SC): low plasticity, dark reddish brown, moist, weakly cemented	Bulk #1											
		Sandy CLAY (CL): low plasticity, reddish brown, moist, hard	Bulk #2					17.0						
5		heavily cemented (Hard Pan)												
		Clayey SAND (SC): fine to coarse-grained sand, low plasticity, yellowish brown, moist, very dense	1		BC=9 27 27	18"								switched to hollow stem auger
		reddish brown, moderately cemented	2		BC=48 27 50/3"	18"								
10		fine-grained sand, yellowish brown, weakly cemented	3		BC=9 23 38	18"								
15		non-plastic, reddish brown, dense, trace gravel, weakly to moderately cemented	4		BC=5 12 17	18"								
20		**Poorly graded SAND (SP)**: fine to medium-grained sand, non-plastic, yellowish brown, moist, dense	5		BC=6 12 19	15"								
25		fine to coarse-grained sand, yellowish brown, medium dense	6		BC=6 10 12	18"								
		Poorly graded SAND (SP): fine to coarse-grained sand, non-plastic, olive yellow, moist, medium dense												
30			7		BC=7 11 15	18"								

The boring was terminated at approximately 31.5 ft. below ground surface. The boring was backfilled with grout on April 10, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20193961
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CHECKED BY:	AS
DATE:	4/22/2019
REVISED:	-

BORING LOG B-4

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
A-6

PAGE: 1 of 1

PLOTTED: 05/10/2019 10:32 AM BY: JSala
OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193961.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

APPENDIX B

LABORATORY TEST RESULTS

Exploration ID	Depth (ft.)	Sample No.	Sample Description	Water Content (%)	Dry Unit Wt. (pcf)	Sieve Analysis (%)			Atterberg Limits			Additional Tests
						Passing 3/4"	Passing #4	Passing #200	Liquid Limit	Plastic Limit	Plasticity Index	
B-1	3.0	Bulk #3	REDDISH BROWN SANDY LEAN CLAY (CL)	19.4					23	13	10	
B-1	5.0	1	REDDISH BROWN SANDY SILTY CLAY (CL-ML)	11.7				56	20	16	4	
B-1	7.5	2	REDDISH BROWN SANDY SILT (ML)					61	20	17	3	
B-2	15.0	4	REDDISH BROWN CLAYEY SAND (SC)					33				
B-3	3.0	BULK #2		17.0								
B-4	3.0	Bulk #2		17.0								

Refer to the Geotechnical Evaluation Report or the supplemental plates for the method used for the testing performed above.
NP = NonPlastic
NA = Not Available

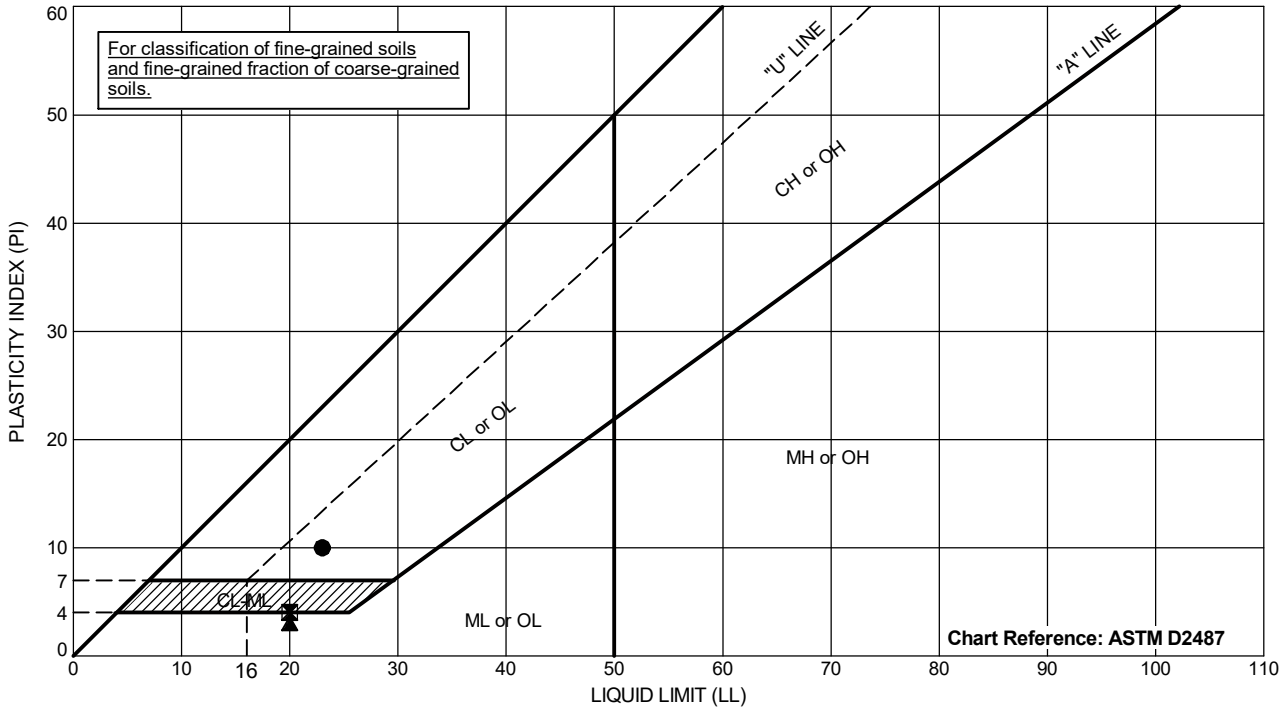
KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20193961
DRAWN BY: JDS
CHECKED BY: AS
DATE: 4/22/2019
REVISED: -

LABORATORY TEST RESULT SUMMARY

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

FIGURE
B-1



Exploration ID		Depth (ft.)	Sample Number	Sample Description	Passing #200	LL	PL	PI
●	B-1	3	Bulk #3	REDDISH BROWN SANDY LEAN CLAY (CL)	NM	23	13	10
⊠	B-1	5	1	REDDISH BROWN SANDY SILTY CLAY (CL-ML)	56	20	16	4
▲	B-1	7.5	2	REDDISH BROWN SANDY SILT (ML)	61	20	17	3

Testing performed in general accordance with ASTM D4318.
NP = Nonplastic
NA = Not Available
NM = Not Measured

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PROJECT NO.:	20193961
DRAWN BY:	JDS
CHECKED BY:	AS
DATE:	4/22/2019
REVISED:	-

ATTERBERG LIMITS

PG&E LOCKEFORD SUBSTATION
12861 EAST KETTLEMAN LANE
LODI, CALIFORNIA

TABLE

B-2

PLOTTED: 04/26/2019 10:44 AM BY: CPimentel
OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193961.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [KLF_ATTERBERG (ASTM)]

California State Certified Laboratory No. 2153

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Kleinfelder
Client's Project No.: 20193961.001A
Client's Project Name: PG&E Lockeford Substation
Date Sampled: 04/09 - 10/19
Date Received: 23-Apr-2019
Matrix: Soil
Authorization: Laboratory Testing Program

Date of Report: 26-Apr-2019

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Resistivity (As Received) (ohms-cm)	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
1904167-001	B-1/B-2, All Bulks	+320	6.92	6,500	8,600	N.D.	N.D.	N.D.
1904167-002	B-3/B-4, All Bulks	+340	6.74	6,100	6,400	N.D.	N.D.	N.D.

Method:	ASTM D1498	ASTM D4972	ASTM G57	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	-	-	50	15	15
Date Analyzed:	24-Apr-2019	24-Apr-2019	25-Apr-2019	25-Apr-2019	25-Apr-2019	24-Apr-2019	24-Apr-2019

Cheryl McMillen
Laboratory Director

* Results Reported on "As Received" Basis
N.D. - None Detected

Quality Control Summary - All laboratory quality control parameters were found to be within established limits

KLEINFELDER

CA1904167 12312 Fed Ex to Cored

LAB NUMBER: HL12049

LABORATORY TESTING PROGRAM - GEOTECHNICAL

HFattal@kleinfelder.com
925-484-4514

Test Method
- [x] ASTM
- [ ] AASHTO
- [ ] DOT
- [ ] Other (see remarks)

Project: PG&E Lockeford Substation

Date Sampled: 4/9/19 to 4/10/19

Project No.: 20193961.001A

Date Submitted: 4/17/2019

Task No.: 04-0001 & 05-0000

Submitted By: Abdul Sadat

Report To: Liana Serrano, H. Fattal Hadi Fattal

Boring / Test Pit	Sample	Depth, ft.	Sample Type	CLASSIFICATN, VISUAL	WATER CONTENT	WATER/DENSITY, SOIL	SIEVE ANALYSIS, -200	SIEVE ANALYSIS, F	SIEVE ANALYSIS, C&F	HYDROMETER ANALYSIS	ATTERBERG, MULTI-PT.	ATTERBERG, ONE-PT.	SOIL ORGANIC CONTENT	SOIL SPEC. GRAV.	STANDARD PROCTOR, 4"	MODIFIED PROCTOR, 4"	R-VALUE	EXPANSION INDEX	SOIL PH	SOIL RESISTIVITY	CHLORIDE CONTENT	SULFATE CONTENT	SAMPLE MIX&PROCESS	SAMPLE PREPARATION	Remarks
B-1	3	3	Bulk	x					x																Standard Astm +5- 3 redox as rec'd
B-1	1	5	SPT	x		x			x																
B-1	2	7.5	SPT			x			x																
B-1/B-2	All bulks		Bulk																						CRASHTAT
B-3/B-4	All Bulks		Bulk																x	x	x	x			Add: Sufide & Redox, composite into ~~one sample~~
B-2	4	15	SPT			x													x	x	x	x			Add: Sufide & Redox, composite into ~~one sample~~
B-1	Bulk 4	4	Bulk	~~x~~					~~x~~																
B-4	Bulk 2	3	Bulk	x																					
B-3	Bulk 2	3	Bulk	x																					
Quantity of Tests																									
Unit				L00228	L00294	L00295	L00267	L00270		L00269	L00248	L00223	L00224	L00271	L00275			L00279	L00251	L00264	L00246	L00272	L00273	L00227	L00281	L00905	L00907

Liana Fattal 4/23/19 0940

Boring / Test Pit	Sample	Depth, ft.	Sample Type	UNCONFINED COMP STR.	DIRECT SHEAR, 1 PT.	DIRECT SHEAR, 3 PTS.	DIRECT SHEAR, RESID.	TRIAX, CU, 1 POINT	TRIAX, CU, 3 POINTS	TRIAX CD, 1 POINT	TRIAX CD, 3 POINTS	TRIAX, UU, 1 POINT	TRIAX, UU, 3 POINTS	TRIAX, UU SAT, 1 PT.	TRIAX, UU SAT, 3 PT.	PERMEABILITY, FLEX	PERMEABILITY, RIGID	PINHOLE DISPERSION	CONSOL, W/O TR	CONSOL, W/2 TR	CONSOL, ALL TR	CONSOL, ADD. REBOUND	ONEDIM FREE SWELL	ONEDIM SWELL % HEAVE	ONEDIMSWELL W/CONSOL	SAMPLE REMOLDING	Remarks
Quantity of Tests																											
Unit				L00293	L00242	L00243	L00244	L00286	L00287	L00285	L00336	L00289	L00290	L00288	L00325	L00258	L00259	L00261		L00233	L00232	L00231	L00230		L00255	L00256	L00257		L00908	

- [/] Test requested
- [X] Test in progress
- [X] Test complete

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"When Quality Counts"

Analytical Report

WorkOrder: 1904607

Report Created for: Kleinfelder, Inc.

2601 Barrington Court
Hayward, CA 94545

Project Contact: Hadi Fattal
Project P.O.:
Project: 20193961.001A; Lockeford Substation

Project Received: 04/11/2019

Analytical Report reviewed & approved for release on 04/18/2019 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Kleinfelder, Inc.
Project: 20193961.001A; Lockeford Substation
WorkOrder: 1904607

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Kleinfelder, Inc.
Project: 20193961.001A; Lockeford Substation
WorkOrder: 1904607

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

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Analytical Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Received:	4/11/19 16:16	**Extraction Method:**	SW3550B
Date Prepared:	4/11/19	**Analytical Method:**	SW8081A/8082
Project:	20193961.001A; Lockeford Substation	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Composite	1904607-001A	Soil	04/10/2019 15:00	GC23 04111947.d	176099

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	04/12/2019 02:26
a-BHC	ND	0.0010	1	04/12/2019 02:26
b-BHC	ND	0.0010	1	04/12/2019 02:26
d-BHC	ND	0.0010	1	04/12/2019 02:26
g-BHC	ND	0.0010	1	04/12/2019 02:26
Chlordane (Technical)	ND	0.025	1	04/12/2019 02:26
a-Chlordane	ND	0.0010	1	04/12/2019 02:26
g-Chlordane	ND	0.0010	1	04/12/2019 02:26
p,p-DDD	ND	0.0010	1	04/12/2019 02:26
p,p-DDE	ND	0.0010	1	04/12/2019 02:26
p,p-DDT	ND	0.0010	1	04/12/2019 02:26
Dieldrin	ND	0.0010	1	04/12/2019 02:26
Endosulfan I	ND	0.0010	1	04/12/2019 02:26
Endosulfan II	ND	0.0010	1	04/12/2019 02:26
Endosulfan sulfate	ND	0.0010	1	04/12/2019 02:26
Endrin	ND	0.0010	1	04/12/2019 02:26
Endrin aldehyde	ND	0.0010	1	04/12/2019 02:26
Endrin ketone	ND	0.0010	1	04/12/2019 02:26
Heptachlor	ND	0.0010	1	04/12/2019 02:26
Heptachlor epoxide	ND	0.0010	1	04/12/2019 02:26
Hexachlorobenzene	ND	0.010	1	04/12/2019 02:26
Hexachlorocyclopentadiene	ND	0.020	1	04/12/2019 02:26
Methoxychlor	ND	0.0010	1	04/12/2019 02:26
Toxaphene	ND	0.050	1	04/12/2019 02:26
Aroclor1016	ND	0.050	1	04/12/2019 02:26
Aroclor1221	ND	0.050	1	04/12/2019 02:26
Aroclor1232	ND	0.050	1	04/12/2019 02:26
Aroclor1242	ND	0.050	1	04/12/2019 02:26
Aroclor1248	ND	0.050	1	04/12/2019 02:26
Aroclor1254	ND	0.050	1	04/12/2019 02:26
Aroclor1260	ND	0.050	1	04/12/2019 02:26
PCBs, total	ND	0.050	1	04/12/2019 02:26

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	114	69-143	04/12/2019 02:26

Analyst(s): CN

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Analytical Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Received:	4/11/19 16:16	**Extraction Method:**	SW3050B
Date Prepared:	4/11/19	**Analytical Method:**	SW6020
Project:	20193961.001A; Lockeford Substation	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Composite	1904607-001A	Soil	04/10/2019 15:00	ICP-MS1 072SMPL.D	176125

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	04/12/2019 17:15
Arsenic	**2.5**	0.50	1	04/12/2019 17:15
Barium	**81**	5.0	1	04/12/2019 17:15
Beryllium	ND	0.50	1	04/12/2019 17:15
Cadmium	ND	0.25	1	04/12/2019 17:15
Chromium	**25**	0.50	1	04/12/2019 17:15
Cobalt	**6.7**	0.50	1	04/12/2019 17:15
Copper	**9.7**	0.50	1	04/12/2019 17:15
Lead	**4.6**	0.50	1	04/12/2019 17:15
Mercury	ND	0.050	1	04/12/2019 17:15
Molybdenum	ND	0.50	1	04/12/2019 17:15
Nickel	**12**	0.50	1	04/12/2019 17:15
Selenium	ND	0.50	1	04/12/2019 17:15
Silver	ND	0.50	1	04/12/2019 17:15
Thallium	ND	0.50	1	04/12/2019 17:15
Vanadium	**45**	0.50	1	04/12/2019 17:15
Zinc	**29**	5.0	1	04/12/2019 17:15

Surrogates	REC (%)	Limits	
Terbium	125	70-130	04/12/2019 17:15

Analyst(s): MIG

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Analytical Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Received:	4/11/19 16:16	**Extraction Method:**	SW5030B
Date Prepared:	4/11/19	**Analytical Method:**	SW8021B/8015Bm
Project:	20193961.001A; Lockeford Substation	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Composite	1904607-001A	Soil	04/10/2019 15:00	GC19 04111925.D	176084

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	04/12/2019 01:01
MTBE	ND	0.050	1	04/12/2019 01:01
Benzene	ND	0.0050	1	04/12/2019 01:01
Toluene	ND	0.0050	1	04/12/2019 01:01
Ethylbenzene	ND	0.0050	1	04/12/2019 01:01
m,p-Xylene	ND	0.010	1	04/12/2019 01:01
o-Xylene	ND	0.0050	1	04/12/2019 01:01
Xylenes	ND	0.0050	1	04/12/2019 01:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	85	62-126	04/12/2019 01:01

Analyst(s): IA

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Analytical Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Received:	4/11/19 16:16	**Extraction Method:**	SW9045C
Date Prepared:	4/11/19	**Analytical Method:**	SW9045C
Project:	20193961.001A; Lockeford Substation	**Unit:**	pH units @ 25°C

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Composite	1904607-001A	Soil	04/10/2019 15:00	WetChem	176123

Analytes	Result	Accuracy	DF	Date Analyzed
pH	**7.76**	±0.1	1	04/11/2019 20:34

Analyst(s): PHU

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Analytical Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Received:	4/11/19 16:16	**Extraction Method:**	SW3550B
Date Prepared:	4/11/19	**Analytical Method:**	SW8015B
Project:	20193961.001A; Lockeford Substation	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Composite	1904607-001A	Soil	04/10/2019 15:00	GC39A 04111946.D	176146

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/12/2019 00:38
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/12/2019 00:38

Surrogates	REC (%)	Limits	
C9	98	74-123	04/12/2019 00:38

Analyst(s): JIS

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176099
Date Analyzed:	4/11/19	**Extraction Method:**	SW3550B
Instrument:	GC20, GC23	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176099

QC Summary Report for SW8081A/8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00027	0.0010	-	-	-
a-BHC	ND	0.00010	0.0010	-	-	-
b-BHC	ND	0.00025	0.0010	-	-	-
d-BHC	ND	0.00037	0.0010	-	-	-
g-BHC	ND	0.000097	0.0010	-	-	-
Chlordane (Technical)	ND	0.016	0.025	-	-	-
a-Chlordane	ND	0.00047	0.0010	-	-	-
g-Chlordane	ND	0.00021	0.0010	-	-	-
p,p-DDD	ND	0.00014	0.0010	-	-	-
p,p-DDE	ND	0.00032	0.0010	-	-	-
p,p-DDT	ND	0.00043	0.0010	-	-	-
Dieldrin	ND	0.00033	0.0010	-	-	-
Endosulfan I	ND	0.00065	0.0010	-	-	-
Endosulfan II	ND	0.00020	0.0010	-	-	-
Endosulfan sulfate	ND	0.00063	0.0010	-	-	-
Endrin	ND	0.00042	0.0010	-	-	-
Endrin aldehyde	ND	0.00020	0.0010	-	-	-
Endrin ketone	ND	0.00013	0.0010	-	-	-
Heptachlor	ND	0.00021	0.0010	-	-	-
Heptachlor epoxide	ND	0.00020	0.0010	-	-	-
Hexachlorobenzene	ND	0.00027	0.010	-	-	-
Hexachlorocyclopentadiene	ND	0.00040	0.020	-	-	-
Methoxychlor	ND	0.00089	0.0010	-	-	-
Toxaphene	ND	0.035	0.050	-	-	-
Aroclor1016	ND	0.0051	0.050	-	-	-
Aroclor1221	ND	0.011	0.050	-	-	-
Aroclor1232	ND	0.0063	0.050	-	-	-
Aroclor1242	ND	0.0067	0.050	-	-	-
Aroclor1248	ND	0.0040	0.050	-	-	-
Aroclor1254	ND	0.0068	0.050	-	-	-
Aroclor1260	ND	0.0061	0.050	-	-	-
PCBs, total	ND	N/A	0.050	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.061			0.050	121	75-136

(Cont.)

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176099
Date Analyzed:	4/11/19	**Extraction Method:**	SW3550B
Instrument:	GC20, GC23	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176099

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.060	0.060	0.050	120	120	92-133	0	20
a-BHC	0.064	0.065	0.050	129	129	96-140	0	20
b-BHC	0.056	0.056	0.050	113	113	77-137	0	20
d-BHC	0.060	0.060	0.050	120	120	89-145	0	20
g-BHC	0.060	0.060	0.050	119	119	92-134	0	20
a-Chlordane	0.057	0.057	0.050	115	114	72-134	0.315	20
g-Chlordane	0.059	0.059	0.050	118	118	86-132	0	20
p,p-DDD	0.046	0.046	0.050	92	91	35-140	1.11	20
p,p-DDE	0.057	0.057	0.050	114	115	83-138	0.769	20
p,p-DDT	0.053	0.053	0.050	105	106	70-137	0.655	20
Dieldrin	0.065	0.065	0.050	129	129	99-141	0	20
Endosulfan I	0.057	0.057	0.050	114	115	93-121	0.0973	20
Endosulfan II	0.054	0.054	0.050	108	108	74-125	0	20
Endosulfan sulfate	0.060	0.061	0.050	120	122	66-138	1.09	20
Endrin	0.061	0.061	0.050	121	121	92-137	0	20
Endrin aldehyde	0.060	0.060	0.050	120	121	77-135	0.670	20
Endrin ketone	0.056	0.056	0.050	113	113	72-126	0	20
Heptachlor	0.058	0.058	0.050	116	115	89-136	0.169	20
Heptachlor epoxide	0.055	0.055	0.050	111	111	85-121	0	20
Hexachlorobenzene	0.052	0.052	0.050	105	105	87-127	0	20
Hexachlorocyclopentadiene	0.035	0.037	0.050	69	74	41-145	7.08	20
Methoxychlor	0.049	0.050	0.050	99	100	82-142	1.23	20
Aroclor1016	0.15	0.14	0.15	103	95	90-125	7.68	20
Aroclor1260	0.16	0.16	0.15	108	107	77-122	0.820	20
Surrogate Recovery								
Decachlorobiphenyl	0.065	0.065	0.050	130	131	75-136	0.440	20

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176125
Date Analyzed:	4/11/19	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176125

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.094	0.50	-	-	-
Arsenic	ND	0.14	0.50	-	-	-
Barium	ND	0.97	5.0	-	-	-
Beryllium	ND	0.072	0.50	-	-	-
Cadmium	ND	0.058	0.25	-	-	-
Chromium	ND	0.092	0.50	-	-	-
Cobalt	ND	0.056	0.50	-	-	-
Copper	ND	0.069	0.50	-	-	-
Lead	ND	0.094	0.50	-	-	-
Mercury	ND	0.0050	0.050	-	-	-
Molybdenum	ND	0.23	0.50	-	-	-
Nickel	ND	0.072	0.50	-	-	-
Selenium	ND	0.13	0.50	-	-	-
Silver	ND	0.055	0.50	-	-	-
Thallium	ND	0.10	0.50	-	-	-
Vanadium	ND	0.064	0.50	-	-	-
Zinc	ND	1.4	5.0	-	-	-
Surrogate Recovery						
Terbium	500			500	99	70-130

(Cont.)

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176125
Date Analyzed:	4/11/19	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176125

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	54	55	50	107	110	75-125	2.50	20
Arsenic	49	50	50	98	99	75-125	1.34	20
Barium	500	510	500	99	102	75-125	2.41	20
Beryllium	49	50	50	99	100	75-125	1.17	20
Cadmium	48	48	50	97	96	75-125	1.02	20
Chromium	48	49	50	97	97	75-125	0	20
Cobalt	48	49	50	97	98	75-125	1.53	20
Copper	49	48	50	98	97	75-125	0.927	20
Lead	49	49	50	97	99	75-125	1.68	20
Mercury	1.2	1.3	1.25	99	102	75-125	3.35	20
Molybdenum	49	51	50	99	101	75-125	2.60	20
Nickel	48	48	50	96	96	75-125	0	20
Selenium	50	50	50	99	101	75-125	1.76	20
Silver	48	49	50	95	97	75-125	1.83	20
Thallium	47	48	50	94	96	75-125	2.12	20
Vanadium	49	49	50	97	98	75-125	0.205	20
Zinc	490	490	500	98	98	75-125	0	20
Surrogate Recovery								
Terbium	510	530	500	103	105	70-130	2.46	20

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/10/19	**BatchID:**	176084
Date Analyzed:	4/11/19	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176084

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	0.22,J	0.090	1.0	-	-	-
MTBE	ND	0.0023	0.050	-	-	-
Benzene	ND	0.0010	0.0050	-	-	-
Toluene	ND	0.0012	0.0050	-	-	-
Ethylbenzene	ND	0.0020	0.0050	-	-	-
m,p-Xylene	ND	0.0013	0.010	-	-	-
o-Xylene	ND	0.0013	0.0050	-	-	-
Surrogate Recovery						
2-Fluorotoluene	0.098			0.10	98	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.60	0.70	0.60	101	116	82-118	14.1	20
MTBE	0.092	0.088	0.10	92	88	61-119	4.26	20
Benzene	0.10	0.10	0.10	104	102	77-128	1.96	20
Toluene	0.11	0.11	0.10	108	107	74-132	0.269	20
Ethylbenzene	0.10	0.10	0.10	105	105	84-127	0	20
m,p-Xylene	0.21	0.21	0.20	106	107	80-120	0.223	20
o-Xylene	0.10	0.10	0.10	100	102	80-120	2.10	20
Surrogate Recovery								
2-Fluorotoluene	0.098	0.097	0.10	98	97	75-134	1.03	20

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176123
Date Analyzed:	4/11/19	**Extraction Method:**	SW9045C
Instrument:	WetChem	**Analytical Method:**	SW9045C
Matrix:	Water	**Unit:**	pH units @ 25°C
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	CCV-176123

QC Summary Report for pH

Analyte	CCV Result	CCV Limits
pH	6.99	6.8-7.2

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Quality Control Report

Client:	Kleinfelder, Inc.	**WorkOrder:**	1904607
Date Prepared:	4/11/19	**BatchID:**	176146
Date Analyzed:	4/12/19	**Extraction Method:**	SW3550B
Instrument:	GC39A, GC39B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	20193961.001A; Lockeford Substation	**Sample ID:**	MB/LCS/LCSD-176146 1904607-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	0.83	1.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	3.8	5.0	-	-	-
Surrogate Recovery						
C9	23			25	93	72-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	38	38	40	95	96	75-128	0.204	30
Surrogate Recovery								
C9	23	23	25	91	91	72-122	0	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1	39	41	40	ND	98	102	71-134	4.22	30
Surrogate Recovery										
C9	1	24	24	25		97	97	78-126	0	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1904607 **ClientCode: KFH**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☑ Dry-Weight

Report to:
Hadi Fattal
Kleinfelder, Inc.
2601 Barrington Court
Hayward, CA 94545
(916) 366-1701 FAX: 510-887-5932

Email: hfattal@kleinfelder.com
cc/3rd Party:
PO:
Project: 20193961.001A; Lockeford Substation

Bill to:
Accounts Payable
Kleinfelder, Inc.
550 West C Street, Ste. 1200
San Diego, CA 92101
AccountsPayableUS@kleinfelder.com

Requested TAT: 5 days;

Date Received: **04/11/2019**
Date Logged: **04/11/2019**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1904607-001	Composite	Soil	4/10/2019 15:00	☐	A	A	A	A	A	A						

Test Legend:

1	8081PCB_S	2	CAM17MS_TTLC_S	3	G-MBTEX_S	4	PH_S
5	STLC_MSEXTRACTONLY	6	TPH(DMO)_S	7		8	
9		10		11		12	

Project Manager: Yen Cao

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: KLEINFELDER, INC.
Client Contact: Hadi Fattal
Contact's Email: hfattal@kleinfelder.com

Project: 20193961.001A; Lockeford Substation
Comments:

Work Order: 1904607
QC Level: LEVEL 2
Date Logged: 4/11/2019

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1904607-001A	Composite	Soil	SW8015B (Diesel & Motor Oil)	4 / (4:1)	16OZ GJ, Unpres	☐	4/10/2019 15:00	5 days		☐	
			STLC (rotated) Extraction Only			☐		5 days*		☐	
			SW9045C (pH)			☐		5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

General COC

MAI Work Order # 1904607

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CHAIN OF CUSTODY RECORD

| | | |

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Sample Receipt Checklist

Client Name:	**Kleinfelder, Inc.**	Date and Time Received	**4/11/2019 16:16**
Project:	**20193961.001A; Lockeford Substation**	Date Logged:	**4/11/2019**
		Received by:	Tina Perez
WorkOrder №:	**1904607** Matrix: Soil	Logged by:	Nancy Palacios
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 6.8°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

APPENDIX C

GBA INFORMATION SHEET

Important Information about This

Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled*. No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

This Report May Not Be Reliable

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be*, and, in general, *if you are the least bit uncertain* about the continued reliability of this report, contact your geotechnical engineer before applying it. A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed*. The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only*. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures*. If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old.*

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, ***proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration.*** Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. ***Geotechnical engineers are not building-envelope or mold specialists.***

GEOPROFESSIONAL BUSINESS ASSOCIATION

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e-mail: info@geoprofessional.org www.geoprofessional.org

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Appendix F2
PG&E Thurman Switching Station Site Geotechnical Investigation Report

GEOTECHNICAL INVESTIGATION REPORT
PG&E THURMAN SWITCHING STATION
1215 EAST THURMAN ROAD
LODI, CALIFORNIA

PROJECT NO. 20193892.001A

JUNE 27, 2019

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June 27, 2019
Project No. 20193892.001A

Pacific Gas and Electric Company
6111 Bollinger Canyon Road, Room 2460-A
San Ramon, CA 94583

Attention: Grant Wilcox, PE, PG, CEG
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Joseph Sun, PhD, PE, GE
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SUBJECT: Geotechnical Investigation Report

PROJECT: PG&E Northern San Joaquin Reinforcement – Thurman Switching Station
PG&E Order No. / Operation Code: 74000935/3750
1215 East Thurman Road
Lodi, California

Dear Mr. Wilcox and Dr. Sun:

The attached report presents the results of Kleinfelder's geotechnical investigation for the Northern San Joaquin Reinforcement at the Thurman Switching Station, located in Lodi, California. The report describes the study, findings, conclusions, and recommendations for use in project design and construction. Kleinfelder's services are authorized by our proposal dated February 26, 2019 and revised on March 6, 2019 and were performed in general accordance with the terms of our Master Services Agreement No. 4400007810.

The primary geotechnical concern at this site is shallow foundation support and potential caving of drilled pier excavations due to the loose to medium dense sand soils encountered in the upper 5 feet of all borings performed outside the existing substation. Based on the information gathered during this study, it is Kleinfelder's professional opinion that the subject site is geotechnically suitable for construction of the proposed improvements using conventional grading and shallow and deep foundation systems. Recommendations for shallow slab, spread footing, and drilled pier foundations are provided in this report. The recommendations presented herein should be incorporated into project design and construction

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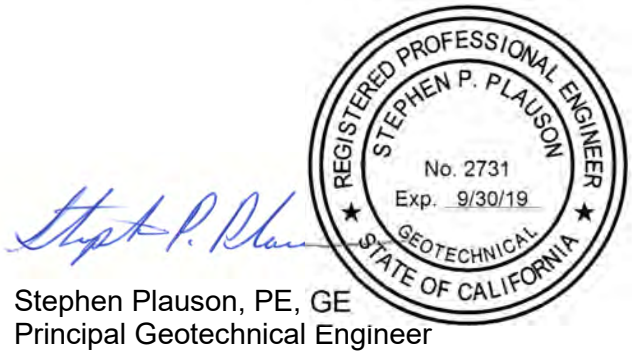
Recommendations for design of foundations, site grading, and other geotechnical considerations are presented in this report. The recommendations presented in this report should be incorporated into project design and construction. Kleinfelder appreciates the opportunity to provide geotechnical engineering services to PG&E during the design phase of this project. If there are any questions concerning the information presented in this report, please contact this office at your convenience.

Respectfully Submitted,

KLEINFELDER, INC.



Hadi Fattal, EIT
Staff Engineer



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1 INTRODUCTION

This report presents the results of a geotechnical investigation conducted for the Northern San Joaquin Reinforcement at the PG&E Thurman Switching Station, located at 1215 East Thurman Road, in Lodi, California. An exploration location plan and vicinity map are shown on Figure 1. Kleinfelder was retained by PG&E to provide geotechnical engineering services for the project. The purpose of the investigation was to evaluate the subsurface conditions at the site and develop geotechnical engineering recommendations to aid in project design and construction.

1.1 PROPOSED CONSTRUCTION

Project understanding is based on the Geotechnical Investigation Request (GIR) dated January 17, 2019 and email and telephone correspondence with Grant Wilcox and Joseph Sun through March 1, 2019. We understand that PG&E plans to expand the existing Thurman Switching Station as part of the Northern San Joaquin Reinforcement Project. The expansion will include construction of one (1) SMP building, one (1) battery building, four BAAH 230 kV bus arrangements, and the connection of two (2) 230kV lines and 230kV connections/provisions to a third-party facility (City of Lodi) for two (2) transmission autotransformers. At this time, foundation loading and dimensions for the aforementioned structures has not been provided.

1.2 PURPOSE AND SCOPE OF SERVICES

The purpose of this investigation was to explore and evaluate subsurface conditions at the site and develop geotechnical conclusions and recommendations for use in project design, specification development, and construction. To accomplish these purposes, Kleinfelder's scope of services includes the following:

- Review of existing geologic and geotechnical data for the site vicinity.
- Drilling and sampling of five soil borings to explore subsurface conditions and to obtain samples for laboratory testing, as well as one percolation test.
- Laboratory testing of selected samples to assess pertinent geotechnical properties.
- Evaluation of the available data to develop conclusions and recommendations to guide geotechnical aspects of design and construction.
- Preparation of this report.

Environmental evaluations and analyses, including detailed review of possible contaminants in the foundation soils, are outside of our scope of services.

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2 FIELD EXPLORATION AND LABORATORY TESTING

2.1 FIELD EXPLORATION

Prior to subsurface exploration, exploration locations were marked, and Underground Service Alert (USA) was contacted to provide utility clearance in the public right-of-way. A project-specific safety plan (PSSP) was prepared for the field exploration activities. This plan was discussed with the field crews prior to the start of field exploration work.

2.1.1 Exploratory Borings

Five borings, labeled B-1 through B-5, were drilled by Taber Drilling of Sacremento, California using a CME-55 drill rig equipped with both solid stem and hollow stem augers. Approximate exploration locations are shown on Figure 1. Exploration locations were designated in the field by measuring from existing landmarks. Horizontal coordinates and elevations of the borings were not surveyed.

The borings were drilled on May 23, 24, and 28, 2019. Borings B-1, B-2, B-3, and B-5 were drilled to a depth of approximately 31 ½ feet below ground surface, and B-4 was drilled to a depth of 51 ½ feet below ground surface.

Logs of the borings are provided in Appendix A. Our borings were cleared to a depth of about 5 feet below the ground surface using hand auger methods to confirm the absence of a utilities or other buried conflicts. Borings B-1, 2, 3, and 5 were drilled using solid stem auger methods from depths of about 5 feet to 31 ½ feet below ground surface, while B-4 was drilled using hollow stem auger methods, from depth of about 5 feet to 51 ½ feet below ground surface.

The borings were located in the field by measuring from existing landmarks. Horizontal coordinates and elevations of the borings were not surveyed. A Kleinfelder field-engineer maintained logs of the borings, visually classified the soils encountered per the Unified Soil Classification System (presented on Figure A-3 through A-6 in Appendix A) and obtained samples of the subsurface materials. Soil classifications made in the field from samples and auger cuttings were made in accordance with ASTM D2488. These classifications were re-evaluated in the laboratory after further examination and testing in accordance with ASTM D2487. Sample classifications, blow counts recorded during sampling, and other related information were recorded on the boring logs. The blow counts listed on the boring logs are raw values and have

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not been corrected for the effects of overburden pressure, rod length, sampler size, or hammer efficiency.

Keys to the soil descriptions and symbols used on the boring logs are presented on Figures A-1, A-2 of Appendix A.

2.1.2 Sampling Procedures

Below the hand auger depth, soil samples were collected from the borings at depth intervals of approximately 2½ to 5 feet. Samples were collected from the borings at selected depths by driving either a 2.5-inch inside diameter (I.D.) California sampler or a 1.4-inch I.D. Standard Penetration Test (SPT) sampler driven 18 inches (unless otherwise noted) into undisturbed soil. The samplers were driven using a 140-pound automatic hammer free-falling a distance of 30 inches. Blow counts were recorded at 6-inch intervals for each sample attempt and are reported on the logs. Near-surface bulk samples were also obtained from auger cuttings.

The SPT sampler did not contain liners. The 2.5-inch I.D. California sampler contained stainless steel liners. The California sampler was in general conformance with ASTM D3550. The SPT sampler was in conformance with ASTM D1586.

Soil samples obtained from the borings were packaged and sealed in the field to reduce moisture loss and disturbance. Following drilling, the samples were returned to our laboratory for further examination and testing. After the borings were completed they were backfilled with cement grout and approved in the field by an inspector from San Juaquin County. Drilling spoils were off-hauled in 55-gallon drums to be disposed of by our drilling subcontractor. Given the uniqueness of this project, in that the project site is not owned by PG&E, the protocol for performing analytical testing wasn't required, and thereby not performed.

2.1.3 Infiltration Testing

On May 23, 2019, a single percolation test was performed. One boring, PT-1, was excavated using hand auger methods to a depth of approximately 5 feet in the area suggested by PG&E. Percolation testing was performed using a Model 2840K2 Aardvark Permeameter, a digital scale, and a laptop in general accordance with ASTM D5126.

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A constant head percolation test was performed using the scale to measure the rate of water infiltration over time. Automatic readings were recorded within the Aardvark Permeameter Module at 1-minute intervals, until a stabilized percolation rate was reached.

The approximate testing location is shown in Figure 1. Upon completion of the percolation testing, the borings were backfilled with auger cuttings. Results from the percolation test are discussed in Section 4.3 of this report and are included in Appendix C.

2.2 LABORATORY TESTING

Laboratory tests were performed on selected samples to evaluate the physical and engineering properties of the materials encountered. Tests included the following:

- Percent passing the No. 200 sieve (ASTM D1140)
- Atterberg limits (ASTM D4318)
- Natural water content (ASTM D2216)
- Unconsolidated Undrained Compression (ASTM D2850)
- Corrosion Suite:
    - Soluble Sulfate Content (ASTM D4327)
    - Soluble Chloride Content (ASTM D4327)
    - pH (ASTM D4972)
    - Minimum Resistivity (ASTM G57)
    - Redox (ASTM D1498)
    - Sulfide (ASTM D4658)

Results of most of the laboratory tests are included on the boring logs in Appendix A. Complete laboratory test data are presented in Appendix B.

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3 GEOLOGIC CONDITIONS

3.1 AREA AND SITE GEOLOGY

The site is located along the central section of the Great Valley geomorphic province in central California. The valley is a large northwestward trending, asymmetric structural trough that has been filled with as much as 6 vertical miles of sediment. The trough is situated between the Sierra Nevada Mountains on the east and the Coast Range Mountains on the west. Both mountain ranges were initially formed by regional uplifts that occurred during the Jurassic and Cretaceous periods of geologic time (greater than 65 million years ago). Renewed uplift began in the Sierra Nevada during late Tertiary time and is continuing today. The deepest and oldest of the sediments that fill the structural trough are marine sediments deposited before the uplift of the Coast Ranges. A mix of marine and continental deposits formed over these older units as seas advanced and retreated in the Sacramento and San Joaquin Valleys. The upper and youngest sediments in the basin are continental deposits consisting of alluvial fan deposits and flood-basin, lake, and marsh deposits.

According to geologic mapping by Marchand and Bartow (1979), the substation area is underlain by Quaternary aged terrace and alluvial fan deposits of the Upper Modesto and Lower Riverbank formations. In the project area, these soils generally consist of silts, sands, and gravels with minor clays, which are relatively comparable to the mapped deposits. Regional groundwater levels in the area are greater than 70 feet deep based on DWR well records near the site.

3.2 LOCAL AND REGIONAL FAULTING

The substation is not located within a State-designated Alquist-Priolo Earthquake Fault Zone where site-specific studies addressing the potential for surface fault rupture are required, and no known active faults traverse the site. The nearest zoned faults to the project site are the Greenville fault (located about 32 miles to the southwest), Calavaras fault (located about 44 miles to the southwest), Hayward fault (located about 52 miles to the southwest), and San Andreas fault zone (located about 71 miles to the southwest).

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4 SITE CONDITIONS

4.1 SITE AND SURFACE DESCRIPTION

The existing Thurman Switching Station is located at 1215 East Thurman Road in Lodi, California. The area of exploration is located within an undeveloped area, directly west of the existing substation at the aforementioned address. The site is bordered by developed commercial property on all sides, with East Thurman Road to its south, and rail lines with East Lodi Avenue beyond to the north. The exploration area is relatively level and covered with dry grass.

4.2 SUBSURFACE CONDITIONS

The subsurface conditions encountered in our borings are in general agreement with the mapped geology. The following description provides a general summary of the subsurface conditions encountered during this study. For more thorough descriptions of the actual conditions encountered at specific boring locations, refer to the boring logs located in Appendix A.

Approximately ½ foot of topsoil was encountered at the surface of all the boring locations. The topsoil was underlain by a variation of silty sand, poorly graded sand, and clayey sands to the final depth of 31 ½ feet, at B-1 through 5. At B-4, below 31 ½ feet, poorly graded sands were encountered to the final depth of 51 ½ feet. Apparent densities were loose in the upper 5 feet, followed by a range of medium dense to dense, with a relatively consistent increase in density with subsequent depth.

4.3 INFILTRATION RATE

A summary table showing the stabilized water percolation rates and corresponding saturated hydraulic conductivity values, K_{sat}, are presented in Table 4.1. Detailed test data is presented in Appendix C. The field percolation rates measured are based on the poorly-graded sand soil conditions encountered at the location of the test. The percolation rate is anticipated to differ throughout the site due to the various soil layers present, such as silts, sands and gravels.

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Table 4.1
Hydraulic Conductivity, K_{sat}

Test Location ID	Hole Depth (ft)	Steady Flow Rate (ml/min)	Hydraulic Conductivity, K_{sat} (cm/sec)
PT-1	5	16.5	3.69×10^{-5}

4.4 GROUNDWATER

According to regional well record data published by the State Water Resources Control Board (https://www.waterboards.ca.gov/), regional groundwater levels are generally greater than 70 feet below the ground surface. Regional groundwater was not encountered during our explorations.

It is possible that groundwater conditions at the site could change due to variations in rainfall and runoff, regional groundwater withdrawal or recharge, construction activities, or other factors not apparent at the time the study was performed.

4.5 VARIATIONS IN SUBSURFACE CONDITIONS

Our interpretations of soil and groundwater conditions at the site are based on the conditions encountered in the borings drilled for this project. The conclusions and recommendations that follow are based on those interpretations. If soil or groundwater conditions exposed during construction vary from those presented in this report, Kleinfelder should be notified to evaluate whether our conclusions or recommendations should be modified.

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5 CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical standpoint, the proposed construction is feasible provided the recommendations presented in this report are incorporated into the project design and construction. The following sections discuss conclusions and recommendations with respect to geologic and seismic hazards, California Building Code (CBC) design considerations, site preparation and grading, and foundation design.

5.1 2016 CBC SEISMIC DESIGN PARAMETERS

5.1.1 Site Class

Based on information obtained from the investigation, published geologic literature and maps, and on our interpretation of the 2016 California Building Code (CBC) criteria, it is our opinion that the project site may be classified as Site Class D, Stiff Soil, according to Section 1613.3.2 of 2016 CBC and Table 20.3-1 of American Society of Civil Engineers (ASCE) 7-10 (2010). Site Class D is defined as a soil profile consisting of stiff soil profile with a shear wave velocity between 600 feet per second and 1,200 feet second, standard penetration test (SPT) blow counts (N-value) between 15 blows per foot and 50 blows per foot, or undrained shear strength between 1,000 pounds per square foot and 2,000 pounds per square foot in the top 100 feet.

5.1.2 Seismic Design Parameters

Approximate coordinates for the site are noted below.

- Latitude: 38.12929 °
- Longitude: -121.24990 °

For a 2016 California Building Code (CBC) based design, the estimated Maximum Considered Earthquake (MCE) mapped spectral accelerations for 0.2 second and 1 second periods (S_S and S_1), associated soil amplification factors (F_a and F_v), and mapped peak ground acceleration (PGA) are presented in Table 5-1. Corresponding site modified (S_{MS} and S_{M1}) and design (S_{DS} and S_{D1}) spectral accelerations, PGA modification coefficient (F_{PGA}), PGA_M, risk coefficients (C_{RS} and C_{R1}), and long-period transition period (T_L) are also presented in Table 5-1. Presented values were estimated using Section 1613.3 of the 2016 California Building Code (CBC), Chapters 11 and 22

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of ASCE 7-10, and the United States Geological Survey (USGS) U.S. seismic design maps (https://seismicmaps.org/).

Table 5-1
Ground Motion Parameters Based on 2016 CBC

Parameter	Value	Reference
S_S	0.724g	2016 CBC Section 1613.3.1
S_1	0.295g	2016 CBC Section 1613.3.1
Site Class	D	2016 CBC Section 1613.3.2
F_a	1.22	2016 CBC Table 1613.3.3(1)
F_v	1.811	2016 CBC Table 1613.3.3(2)
PGA	0.249g	ASCE 7-10 Figure 22-7
S_{MS}	0.884g	2016 CBC Section 1613.3.3
S_{M1}	0.533g	2016 CBC Section 1613.3.3
S_{DS}	0.589g	2016 CBC Section 1613.4.4
S_{D1}	0.356g	2016 CBC Section 1613.4.4
F_{PGA}	1.301	ASCE 7-10 Table 11.8-1
PGA_M	0.324g	ASCE 7-10 Section 11.8.3
C_{RS}	1.1	ASCE 7-10 Figure 22-17
C_{R1}	1.142	ASCE 7-10 Figure 22-18
T_L	12 seconds	ASCE 7-10 Figure 22-12

5.2 LIQUEFACTION

Earthquake-induced soil liquefaction can be described as a significant loss of soil strength and stiffness caused by an increase in pore water pressure resulting from cyclic loading during shaking. Liquefaction is most prevalent in loose to medium dense, sandy and gravely soils below the groundwater table but can also occur in non-plastic to low-plasticity, finer-grained soils. The potential consequences of liquefaction to engineered structures include loss of bearing capacity, buoyancy forces on underground structures, ground oscillations or “cyclic mobility,” increased lateral earth pressures on retaining walls, liquefaction settlement, and lateral spreading or “flow failures” in slopes.

Based on the relative density, soil type, and depth to groundwater at the site, the potential for liquefaction is considered negligible.

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5.3 EXPANSIVE SOILS

Based on the results of an Atterberg limits test performed on a near-surface sample of silty sand (Boring B-4 at a depth of about 5.5 feet), the sampled soils at shallow surface measured to be non-plastic. Based on the aforementioned test results, potential and density of these soils, we do not anticipate the surficial soils will shrink or swell significantly as a result of soil moisture content changes.

5.4 SITE PREPARATION

5.4.1 General

Considering site grades are presently well established, site grading is anticipated to be minimal, minus the grading for the proposed pond. General recommendations for site preparation and earthwork construction are presented in the following sections of this report. All earthwork, including excavation, backfill and preparation of subgrade, should be performed in accordance with the geotechnical recommendations presented in this report and applicable portions of the grading code of local regulatory agencies. The grading contractor is responsible to notify governmental agencies, as required, and the geotechnical engineer at the start of site cleanup, the initiation of grading and any time that grading operations are resumed after an interruption. All earthwork should be performed under the observation and testing of a Kleinfelder representative. All references to compaction, maximum density and optimum moisture content are based on ASTM D1557, unless otherwise noted.

5.4.2 Stripping and Grubbing

Any miscellaneous surface or encountered subsurface obstructions, vegetation, debris, or other deleterious materials should be removed from the project area prior to any site grading. At the time of the investigation, the site surface was loose to a depth of approximately 6 inches due to previous disking for weed control. The loose, disked soil was also blended with a moderate amount of visible organics of seasonal vegetation. The depth of stripping at the time of construction should be enough to remove the visible organics. The stripped materials should not be incorporated into any engineered fill unless they can be thoroughly blended to achieve an organic content less 3 percent by weight and no visible organic matter.

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5.4.3 Disturbed Soil, Undocumented Fill and Subsurface Obstructions

Initial site grading should include a reasonable search to locate soil disturbed by previous activity and abandoned underground structures or existing utilities that may exist within the areas of construction. Any loose or disturbed soils, void spaces that may be encountered should be over-excavated to expose firm and relatively unyielding native soil, as approved by a representative of Kleinfelder.

Unless approved otherwise by an on-site representative of Kleinfelder during grading, undocumented fills at the locations of any future grading or shallow foundations should be over-excavated and replaced with engineered fill as recommended below in the “Engineered Fill-Placement and Compaction Criteria” section of this report.

5.4.4 Scarification and Compaction

In areas requiring placement of fill, it is recommended the fill be placed and compacted as engineered fill. Following site stripping and any required grubbing and/or over-excavation, it is recommended areas to receive engineered fill be scarified to a depth of 8 inches, uniformly moisture conditioned to at least the optimum moisture content for sandy soils (SP, SM, SC) or at least 3 percent above the optimum moisture content for clayey soils (CL, CH) and compacted to at least 90 percent relative compaction for sandy soils or between 88 and 92 percent relative compaction for clayey soils, as determined by ASTM D1557.

5.5 ENGINEERED FILL

5.5.1 Onsite Materials

The on-site soil appears suitable for use as engineered fill. All engineered fill should be free of debris, visible organics, or other deleterious materials, and have a maximum particle size less than 3 inches in maximum dimension. Where imported material is brought in, it is recommended that it be granular in nature and conform to the minimum criteria discussed in Table 5-2.

5.5.2 Non-Expansive Engineered Fill Requirements

Specific requirements for engineered fill as well as applicable test procedures to verify material suitability are provided below:

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Table 5-2
Engineered Fill Requirements

Fill Requirement		Test Procedures	
		ASTM	Caltrans
Gradation			
Sieve Size	**Percent Passing**		
3 inch	100	D6913	202
¾ inch	70-100	D6913	202
No. 200	20-50	D6913	202
Plasticity			
Liquid Limit	**Plasticity Index**		
<30	<12	D4318	204
Organic Content			
No visible organics		---	---
Expansion Potential			---
20 or less		D4829	---
Soluble Sulfates			
Less than 2,000 ppm		---	417
Soluble Chloride			
Less than 300 ppm		---	422
Resistivity			
Greater than 2,000 ohm-cm		---	643

Materials to be used for engineered fill should be sampled and tested by Kleinfelder prior to being transported to the site. Highly pervious materials such as clean crushed stone or pea gravel are not recommended for use in engineered fill because they can permit transmission of water into the underlying materials. We recommend representative samples of imported materials proposed for use as engineered fill be submitted to Kleinfelder for testing and approval at least one week prior to the start of grading and import of this material.

In addition, we recommend that a laboratory corrosion test series (pH, resistivity, redox, sulfides, chlorides, and sulfates) be performed on all proposed import materials.

5.5.3 Placement and Compaction Criteria

Non-expansive soils that meet the criteria outlined in Table 5-2 that are to be used for engineered fill should be uniformly moisture conditioned to at least the optimum moisture content, placed in horizontal lifts less than about 8 inches in loose thickness, and compacted to at least 90 percent relative compaction, as determined by ASTM D1557. Onsite clayey soils to be used for general fill where engineered fill is not required should be uniformly moisture conditioned to at least 4 percent over the optimum moisture content, placed in horizontal lifts no more than about 8 inches

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in loose thickness, and compacted to between 88 and 92 percent relative compaction, as determined by ASTM D1557.

Additional fill lifts should not be placed if the previous lift did not meet the required relative compaction or moisture content, or if soil conditions are not stable. Disking or blending may be required to uniformly moisture condition soils used for engineered fill. Ponding or jetting compaction methods should not be allowed.

All site preparation and fill placement should be observed by Kleinfelder. It is important that during the stripping and scarification processes, a representative of Kleinfelder be present to observe whether any undesirable material is encountered in the construction area and whether exposed soils are similar to those encountered during the geotechnical site exploration.

5.6 WET WEATHER CONSIDERATIONS

Should construction be performed during or subsequently after wet weather, near-surface site soils may be significantly above the optimum moisture content. These conditions could hamper equipment maneuverability and efforts to compact site soils to the recommended compaction criteria. Disking to aerate, chemical treatment, replacement with drier material, stabilization with a geotextile fabric or geogrid, or other methods may be required to mitigate the effects of excessive soil moisture and facilitate earthwork and construction operations.

5.7 SITE DRAINAGE

Final site grading should provide surface drainage away from all structures and areas to be traversed by vehicles and maintenance equipment. In general, we recommend consideration be given to providing at least 2 percent slope away from structure foundations or access ways.

5.8 TEMPORARY EXCAVATIONS

5.8.1 General

All excavations should comply with applicable local, state, and federal safety regulations including the current Occupational Safety & Health Administration (OSHA) Excavation and Trench Safety Standards. Construction site safety generally is the responsibility of the Contractor, who is responsible for the means, methods, and sequencing of construction operations. Kleinfelder is

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providing the information below solely as a service to the client. Under no circumstances should the information provided be interpreted to mean that Kleinfelder is assuming responsibility for construction site safety or the Contractor's activities. Such responsibility is not being implied and should not be inferred.

5.8.2 Excavation and Slopes

Excavated slope height, slope inclination, or excavation depths (including utility trench excavations) should in no case exceed those specified in local, state, and/or federal safety regulations (e.g., OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926, or successor regulations). Such regulations are strictly enforced and, if they are not followed, the Owner, Contractor, and/or earthwork and utility subcontractors could be liable for substantial penalties.

Underground utilities should be located above a 1H:1V (horizontal to vertical) plane projected down and out from the bottoms of new footings to avoid undermining the footings during the excavation of the utility trench.

Heavy construction equipment, building materials, excavated soil, and vehicular traffic should be kept sufficiently away from the top of any excavation to prevent any unanticipated surcharging. Alternatively, excavation slopes and shoring systems can be designed to accommodate surcharge loadings, if necessary. Shoring, bracing, or underpinning required for the project (if any), should be designed by a professional engineer registered in the State of California.

5.9 TRENCH BACKFILL

All trench backfill should be placed and compacted in accordance with recommendations provided for engineered fill (see Section 5.5). Mechanical compaction is recommended. Ponding or jetting should not be used as a sole means of soil compaction.

5.10 SHALLOW FOUNDATIONS

This section provides general recommendations for shallow foundations. Kleinfelder should review the design to ensure compliance with the intent of the geotechnical conclusions and recommendations provided in this report.

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Foundations should satisfy two independent criteria with respect to foundation soils. First, the foundation should have an adequate safety factor against bearing failure with respect to the shear strength of the foundation soils. Second, the vertical movements of the foundation due to settlement (both immediate elastic settlement and consolidation settlement) should be within tolerable limits for the structure. Depending on the settlement tolerance of planned structures, design loading, and foundation dimensions, the general recommendations presented in this report may be subject to modification. If future project needs require additional foundation capacity, Kleinfelder should be contracted to evaluate this potential for specific foundation designs.

Structures may be supported on conventional, shallow, reinforced concrete mat foundations or spread footings, provided the site structures can tolerate the anticipated settlement.

5.10.1 Spread Footings

5.10.1.1 Allowable Bearing Pressure

Shallow spread footings constructed of reinforced concrete may be founded on approved undisturbed native soil and/or engineered fill. The footings should be founded at least 18 inches below lowest adjacent finished grade on subgrade soils that have been prepared in accordance with the recommendations provided in this report. Continuous and isolated rectangular footings should have a minimum width of 12 inches.

For foundation subgrade prepared in accordance with the recommendations provided in this report, spread and strip footings may be designed for a net allowable bearing pressure of up to 2,000 pounds per square foot (psf) due to dead plus live loads. The weight of the foundation that extends below grade may be neglected when computing dead loads. The allowable bearing pressure includes a safety factor of at least 3 with respect shear failure of the foundation soils and may be increased by one-third for transient loading due to wind or seismic forces.

To maintain the desired support, foundations adjacent to utility trenches or other existing foundations should be deepened so that their bearing surfaces are below an imaginary plane having an inclination of 1 horizontal to 1 vertical, extending upward from the bottom edge of the adjacent foundations or utility trenches.

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5.10.1.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the foundations. An allowable coefficient of sliding friction of 0.39 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the footing is protected from disturbance by concrete or pavement. The allowable friction coefficient and passive resistance may be used concurrently.

5.10.1.3 Settlement

Total settlement of an individual foundation will vary depending on the plan dimensions of the foundation and the actual load supported. Foundation dimensions and loads have not been provided for the proposed structures, we estimate maximum total settlement of foundations designed and constructed in accordance with the preceding recommendations of up to about ½ inch or less. Differential settlement between similarly loaded, adjacent footings are estimated to be about half the total settlement. The majority of foundation settlement is expected to occur rapidly and should be essentially complete shorty after initial application of the loads.

5.10.1.4 Shallow Foundation Construction Considerations

Prior to placing steel or concrete, foundation excavations should be cleaned of any debris, disturbed soil or water. All foundation excavations should be observed by a representative of Kleinfelder just prior to placing fill and/or steel or concrete. The purpose of these observations is to check that the bearing soils actually encountered in the foundation excavations are similar to those assumed in analysis and to verify the recommendations contained herein are implemented during construction.

5.10.2 Mat Foundations

Recommendations for design and construction of small mat slab foundations up to about 25 feet wide are presented below. Kleinfelder should be consulted to provide supplementary mat foundation recommendations if larger mat slab foundations are planned in the future.

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5.10.2.1 Allowable Bearing Pressure

For subgrades prepared as recommended in this report, reinforced concrete mat foundations may be designed for a net allowable bearing pressure of 2,000 psf. If higher allowable bearing capacity for mat foundations is required, Kleinfelder should be consulted to provide supplemental engineering and construction recommendations on a case-by-case basis. The allowable bearing pressure applies to dead plus live loads, includes a safety factor of at least 3 with respect to shear failure of the foundation soils, and may be increased by one-third for short-term loading due to wind or seismic forces.

5.10.2.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the foundations. An allowable coefficient of sliding friction of 0.39 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the foundation is protected from disturbance by concrete or pavement. The friction coefficient and passive resistance may be used concurrently.

5.10.2.3 Subgrade Modulus

For preliminary design purposes, a modulus of subgrade reaction, K_{v1}, of 150 pounds per square inch per inch of deflection (for a 1 square-foot bearing plate) may be used for design of mat slabs. The modulus should be adjusted for the actual slab size using appropriate formulas or software.

5.10.2.4 Mat Slab Settlement

For foundations with design pressures equal to or less than the net allowable pressure provided above, and under static loading conditions, total post-construction foundation settlement is expected to be less than about ½ inch at the center of the mat foundations. Post-construction differential settlement of individual foundation elements is expected to be about one-half the total settlement.

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These settlement estimates are based on the assumption that the foundation subgrade is properly prepared, and the foundations are designed and constructed in accordance with the recommendations presented in this report.

5.10.2.5 Mat Foundation Construction Considerations

Underground utilities that are 4 feet deep or shallower and that run parallel to shallow mat foundations generally should be located no closer than 2 feet horizontally away from the perimeter edges of the slab. Deeper utilities should be located above a 1H:1V (horizontal to vertical) slope projected downward from the bottom edges of the slab. Utility plans should be reviewed by Kleinfelder prior to trenching to evaluate conformance with this requirement.

Beneath exterior cast-in-place concrete mat foundations, we recommend the design include a base course of well-graded crushed aggregate base at least 6 inches thick. Aggregate base materials should meet current Caltrans specifications for Class 2 aggregate base. Under slabs that will be subject to vehicle loading, the aggregate base course thickness should be increased to a minimum of 6 inches. The base course should be compacted to at least 95 percent relative compaction at optimum moisture content. Thickened slab edges embedded to at least 18 inches below grade need not be underlain by the gravel base course.

5.11 DRILLED PIER FOUNDATIONS

Recommendations for design and construction of drilled pier foundations are presented in the following sections of this report.

5.11.1 Axial Capacity

Axial pile capacity was developed based on Federal Highway Administration methods using the commercial computer software SHAFT, version 2017, produced by Ensoft, Inc. Static soil strength parameters are based on strength and soil properties measured during the field and laboratory testing phases of this investigation.

Axial loads on drilled piers should be supported by the frictional capacity of the pier. End bearing is not considered in the axial capacity due to strain incompatibility issues between skin friction and end bearing, settlement issues, and the potential for loose materials to exist at the bottoms of the pier holes during construction that cannot be effectively cleaned out. If additional axial

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capacity is required beyond what is provided in this report, Kleinfelder should be consulted to provide a portion of end bearing capacity and additional construction recommendations.

A curve illustrating the ultimate axial compressive capacity of a unit (1-foot) diameter straight-sided drilled pier installed from the existing grade under static conditions is shown on Figure 2a. Corresponding tabulated values are presented on Figure 2b. Capacities for drilled piers with diameters other than 1 foot may be obtained by multiplying the capacity for the 1-foot diameter pier by the actual pier diameter (in feet). For evaluation of allowable axial capacity under static conditions, we recommend a factor of safety of 3 be applied to the ultimate capacity (per the General Order 95 code). Note that the weight of the foundation need not be considered for evaluation of allowable axial capacity.

Ultimate tensile capacity may be obtained by multiplying the compressive capacity by a factor of 0.8 and adding the weight of the foundation. For allowable tension capacity under transient flood, wind or seismic conditions, a safety factor of at least 1.5 should be used. For allowable sustained tension, a safety factor of 3 should be used.

5.11.1.1 Estimated Settlement

Based on the methods outlined by FHWA Drilled Shaft Manual, Brown et al. (2010), total static settlement of each drilled pier should be on the order of 0.1 percent of the pier diameter for a drilled pier designed and constructed in accordance with the recommendations presented in this report. This value includes elastic compression of the pile under design loads. The majority of the settlement should occur during and shortly after application of the structure loads. We suggest allowing for about ¼ inch of settlement to accommodate potential long-term settlement, construction issues, and some soil variability across the site.

5.11.1.2 Axial Capacity Group Effects

The axial capacity of piers developed in accordance with the recommendations provided above applies to single, isolated piers. Consideration of group effects on axial capacity of drilled piers is usually not necessary for piers with center-to-center spacings of at least 3 effective diameters. For closer spacings the capacity of individual piers will be reduced. For these cases Kleinfelder should be consulted to evaluate axial capacity on a case-by-case basis. Note that group effects should also be considered where new foundations are constructed immediately adjacent to existing foundations.

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5.11.2 Lateral Response

5.11.2.1 LPILE Analysis Soil Parameters

Lateral capacity of drilled piers may be developed through analysis of pier response due to a range of design loads. Table 5-3 contains recommended input soil parameters for lateral response analysis of deep foundations using the LPILE computer program (by Ensoft, Inc., Version 2018. Program default values may be used for strain factor (E_{50}) and horizontal subgrade reaction (K).

Table 5-3
LPILE Geotechnical Parameters
Static Conditions

Depth (feet)	Model P-Y Curve	Effective Unit Weight (lb/ft^3)	Cohesion c (psf)	Internal Friction Angle, Φ (degrees)
0 to 30	Sand (Reese)	115	-	30

LPILE analyses and Canedo Q Value determinations could not be performed at this time, as the loading of individual piles have not yet been established by PG&E. When loading is available, Kleinfelder can provide Lpile analysis and evaluate the Canedo Q Value for an additional fee.

5.11.3 Drilled Pier Construction Considerations

Successful completion of drilled pier foundations requires good construction procedures. Drilled pier excavations should be constructed by a skilled operator using techniques that allow the excavations to be completed, the reinforcing steel placed, and the concrete poured in a continuous manner to reduce the time that excavations remain open. Steel reinforcement and concrete should be placed on the same day of completion of each pier excavation. Additionally, drilled pier excavations should be scheduled to allow concrete in each pile to set over night before drilling adjacent holes that are closer than 4 diameters center-to-center.

The following considerations should be implemented during construction of drilled shaft foundations. We recommend the contractor follow the procedures for drilled pier construction contained in the Federal Highway Administration (FHWA) manual on drilled shaft construction (Brown et al., 2010).

Consistent with Chapter 17 of the 2016 CBC, drilled pier excavations should be inspected and approved by the geotechnical engineer prior to installation of reinforcement. The depths of all pier

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excavations should be checked immediately prior to concrete placement to verify excessive sloughing and/or caving has not reduced the required hole depth. This may be done with a weighted tape measure or similar measuring device.

As described above, loose sandy soils may be encountered during drilled pier construction. In addition, perched groundwater depending on local rainfall and runoff patterns may also be present at the time of construction. The contractor should be prepared to handle caving sandy soil and possibly of perched groundwater conditions during construction of drilled piers at the site.

The depth to regional groundwater is on the order of 70 feet bgs, therefore, it is unlikely that drilled shafts will encounter regional groundwater. If drilled shaft excavations extend below groundwater levels, the excavations should be cleaned such that less than about 1 inch of loose soil remains at the bottom of the drilled hole. Since the piers should be designed to derive their support in skin friction along the sides of the shafts, consideration could be given to over-drilling the shafts to accommodate any sloughing that may occur between drilling and concrete placement. It is recommended that a representative from Kleinfelder observe each drilled shaft excavation to verify soil and excavation conditions prior to placing steel reinforcement or concrete.

Steel reinforcement and concrete should be placed on the same day the drilled hole is completed to reduce the potential for caving and reduce the quantity of suspended soil particles that may settle to the bottom of the hole during wet-method construction. Excavation depths should be checked several times before concrete placement to ensure excessive sedimentation has not occurred. Concrete used for pier construction should be discharged vertically into the drilled hole to reduce aggregate segregation. Under no circumstances should concrete be allowed to free-fall against either the steel reinforcement or the sides of the excavation during shaft construction. Sufficient space should be provided in the pier reinforcement cage during fabrication to allow the insertion of a pump hose or tremie tube for concrete placement. The pier reinforcement cage should be installed, and the concrete pumped immediately after drilling is completed.

In order to develop the design skin friction values provided in the axial capacity figures, concrete used for drilled pier construction should have a slump ranging from 4 to 6 inches if placed in a dry shaft without temporary casing, and from 6 to 8 inches if temporary casing or slurry drilling methods are used. The concrete mix should be designed with appropriate admixtures and/or water/cement ratios to achieve these recommended slumps. Adding water to a conventional mix to achieve the recommended slump should not be allowed. For concrete mixes with slumps over

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6 inches, vibration of the concrete during placement is generally not recommended as aggregate settlement may result in the lack of aggregate within the upper portion of the pile.

If water or drilling fluids are present during concrete placement, concrete should be placed into the hole using tremie methods. Tremie concrete placement should be performed in strict accordance with ACI 304R. The tremie pipe should be rigid and remain below the surface of the in-place concrete at all times to maintain a seal between the water or slurry and fresh concrete. The upper concrete seal layer will likely become contaminated with excess water and soil as the concrete is placed and should be removed to expose uncontaminated concrete immediately following completion of concrete placement. It has been our experience that the concrete seal layer may be on the order of 3 to 5 feet thick but will depend on the pile diameter, amount of water seepage, and construction workmanship.

Loose sandy soils will likely be encountered during drilled pier construction. Use of slurry drilling methods will likely be needed to reduce the potential for caving in the drilled pier excavations. Use of slurry drilling methods normally requires experienced construction personnel to batch and mix the slurry, test the slurry for proper mixing, hydration, viscosity and other important properties, and to monitor slurry performance during drilling. If slurry drilling methods are used, we recommend use of a polymer slurry that meets Caltrans requirements for drilled shaft construction or bentonite-based slurry, mixed and used in accordance with the guidelines in the FHWA Drilled Shaft Manual (Brown et al., 2010). This guideline recommends bentonite slurry mixtures not be left in the hole for more than about 4 hours in order to avoid potential side friction losses that may be caused by excessive thickness of bentonite filter cake on the hole wall.

If caving conditions are encountered in a drilled pier excavation and there are no overhead clearance issues, temporary casing could be used to help mitigate this condition. If temporary steel casing is used, it should be removed from the hole as concrete is being placed. The bottom of the casing should be maintained below the top of the concrete during casing withdrawal and concrete placement operations. Casing should not be withdrawn until sufficient quantities of concrete have been placed into the excavation to balance the groundwater head outside the casing. Continuous vibration of the casing or other methods may be required to reduce the potential for voids occurring within the concrete mass during casing withdrawal. Corrugated metal pipe should not be used as casing. In no case should casing material be left in the excavation after concrete has been placed without the approval of the project structural and geotechnical

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engineers. Concrete should be in direct contact with the surrounding soil or the design parameters and recommendations in the geotechnical report are not valid.

5.12 SOIL CORROSION

Kleinfelder has completed laboratory testing to provide data regarding corrosivity of onsite soils. Our scope of services does not include corrosion engineering and, therefore, a detailed analysis of the corrosion test results is not included in this report. A qualified corrosion engineer should be retained to review the test results and design protective systems that may be required. Kleinfelder may be able to provide those services.

Laboratory chloride concentration, sulfate concentration, pH, oxidation reduction potential, redox, sulfide and electrical resistivity tests were performed for a near surface soil sample. The results of the tests are attached and are summarized in Table 5-4. If fill materials will be imported to the project site, similar corrosion potential laboratory testing should be completed on the imported material.

Table 5-4
Chemistry Laboratory Test Results

Boring and Depth	Material	Resistivity, ohm-cm	Resistivity, ohm-cm (Saturated)	pH	Oxidation Reduction Potential, mV	Water-Soluble Ion Concentration, ppm		
						Chloride	Sulfide	Sulfate
B-4 (1-5 feet)	Sand	29,000	22,000	7.21	320	N.D.*	N.D.*	N.D.*

*N.D. - None Detected

Ferrous metal and concrete elements in contact with soil, whether part of a foundation or part of the supported structure, are subject to degradation due to corrosion or chemical attack. Therefore, buried ferrous metal and concrete elements should be designed to resist corrosion and degradation based on accepted practices.

Based on the “10-point” method developed by the American Water Works Association (AWWA) in standard AWWA C105/A21.5, the potential for the soils at the site to be corrosive to buried ferrous metal piping, cast iron pipes, or other objects made of these materials is negligible. We recommend that a corrosion engineer be consulted to recommend appropriate protective measures.

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The degradation of concrete or cement grout can be caused by chemical agents in the soil or groundwater that react with concrete to either dissolve the cement paste or precipitate larger compounds within the concrete, causing cracking and flaking. The concentration of water-soluble sulfates in the soils is a good indicator of the potential for chemical attack of concrete or cement grout. The American Concrete Institute (ACI) in their publication "Guide to Durable Concrete" (ACI 201.2R-08) provides guidelines for this assessment. The samples had sulfate concentrations of non-detectible (N.D.), which indicates the potential for deterioration of concrete is mild to negligible, and no special requirements should be necessary for the concrete mix.

Concrete and the reinforcing steel within it are at risk of corrosion when exposed to water-soluble chloride in the soil or groundwater. Chloride tests indicated the sample had concentrations below the detectable limit.

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6 ADDITIONAL SERVICES

6.1 PLANS AND SPECIFICATIONS REVIEW

Kleinfelder should conduct a general review of plans and specifications to evaluate that the earthwork and foundation recommendations presented in this report have been properly interpreted and implemented during design. In the event Kleinfelder is not retained to perform this recommended review, no responsibility for misinterpretation of the recommendations by Kleinfelder is accepted.

6.2 CONSTRUCTION OBSERVATION AND TESTING

It is recommended that all earthwork and foundation construction be monitored by a representative from Kleinfelder, including site preparation, placement of all engineered fill and trench backfill, construction of slab and all foundation excavations. The purpose of these services is to observe the soil conditions encountered during construction, evaluate the applicability of the recommendations presented in this report to the soil conditions encountered, and recommend appropriate changes in design or construction procedures if conditions differ from those described herein.

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7 LIMITATIONS

This report presents information for planning, permitting, design, and construction of the new expansion, planned at the Thurman Switching Station in Lodi, California. Recommendations contained in this report are based on materials encountered in Borings B-1 through and B-5, geologic interpretation based on published articles and geotechnical data, and our present knowledge of the proposed construction.

It is possible that soil conditions could vary beyond the points explored. If the scope of the proposed construction, including the proposed location, changes from that described in this report, we should be notified immediately in order that a review may be made, and any supplemental recommendations provided.

We have prepared this report in accordance with the generally accepted geotechnical engineering practice as it exists in the site area at the time of our study. No warranty expressed or implied is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

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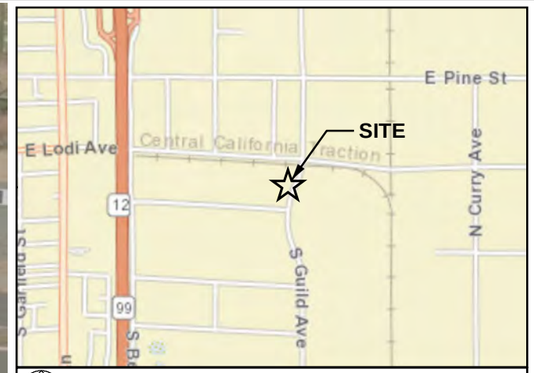
FIGURES

PLOTTED: 6/13/2019 2:44:50 PM BY: HFattal





VICINITY MAP

NOT TO SCALE

NOTE:
BASE MAPPING AND VICINITY MAP CREATED FROM LAYERS COMPILED BY ESRI PRODUCTS AND 2019 MICROSOFT CORPORATION.
COORDINATE SYSTEM:
NAD 1983 2011 STATEPLANE CALIFORNIA III FIPS 0403

LEGEND

- SOIL BORING
- PERCOLATION TEST HOLE

N

0 100 200

1 " = 100 SCALE IN FEET

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CHECKED BY:	L. Serrano
DATE:	06-13-2019
REVISED:	-

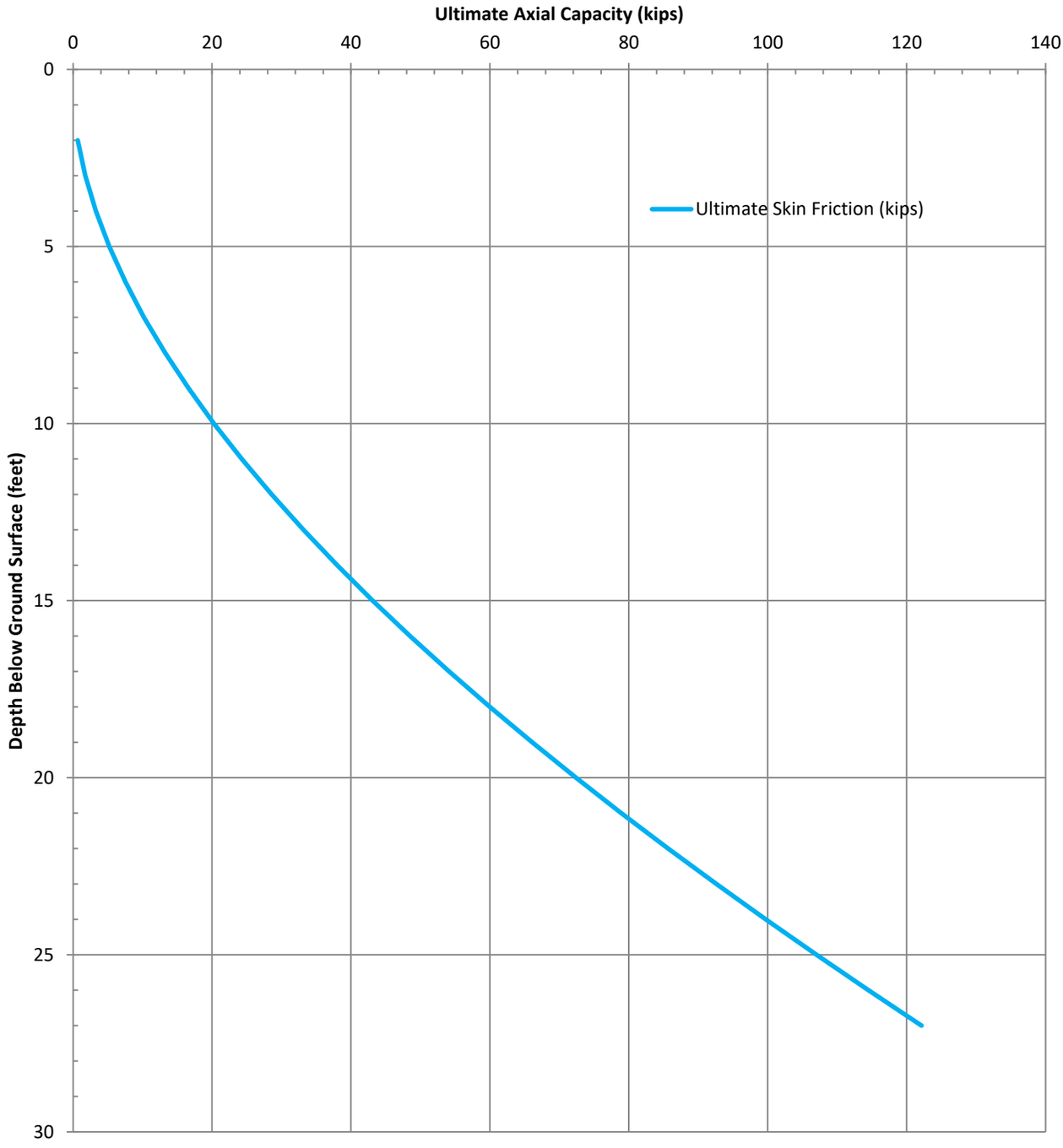
EXPLORATION LOCATION PLAN AND VICINITY MAP

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE

1

GIS FILE PATH: \\azgisstorp01\Working_clients_Automated_Exploration Plans



Notes:

1. Axial capacities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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CHECKED BY:	SP
DATE:	6/13/2019
REVISED:	6/21/2019

ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

PG&E THURMAN SUBSTATION
1215 EAST THURMAN ROAD
LODI, CA

FIGURE
2A

Depth (ft)	Ultimate Axial Capacity (Kips)	Depth (ft)	Ultimate Axial Capacity (Kips)
2	0.7	15	48.5
3	1.7	16	54.1
4	3.3	17	60.0
5	5.2	18	66.1
6	7.5	19	72.4
7	10.2	20	78.9
8	13.2	21	85.7
9	16.6	22	92.6
10	20.3	23	99.7
11	24.3	24	107.0
12	28.6	25	114.5
13	33.1	26	122.1
14	38.0	27	

Notes:

1. Axial capcities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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DATE:	6/13/2019
REVISED:	6/21/2019

ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

PG&E THURMAN SUBSTATION
1215 EAST THURMAN ROAD
LODI, CA

FIGURE
2B

APPENDIX A

FIELD EXPLORATION

Date Begin - End:	5/24/2019	**Drilling Company:**	Taber	**BORING LOG B-1**	
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Solid Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	4 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION | LABORATORY RESULTS

Latitude: 38.12986°
Longitude: -121.24990°
Surface Condition: Topsoil/Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		approximately 6 inches of topsoil, dry												hand auger to 5 feet
		Poorly Graded SAND with Silt (SP-SM): fine to coarse-grained sand, non-plastic, dark brown, moist, trace roots												
5		non-plastic, loose	1		BC=4 4 4			8.7	88.7					switch to solid stem auger at 5 feet
			2		BC=3 5 5						14			
		Silty Clayey SAND (SC-SM): fine to coarse-grained sand, low to medium plasticity, olive yellow, moist, loose												
10		**Poorly Graded SAND with Silt (SP-SM)**: fine to coarse-grained sand, low plasticity, dark brown, dry, dense	3		BC=8 15 23									
		Clayey SAND (SC): fine to coarse-grained sand, low to medium plasticity, yellowish brown, dry, very dense												
15			4		BC=14 23 30							23	10	
		Poorly Graded SAND with Clay (SP-SC): low plasticity, dark brown, dry, medium dense, weakly cemented layer												
20			5		BC=3 12 11									
25		low plasticity, dense	6		BC=12 15 19									
30		low plasticity, medium dense	7		BC=3 12 14									upper 6" of blow counts is slush

The boring was terminated at approximately 31.5 ft. below ground surface. The boring was backfilled with neat cement on May 24, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-1

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-2

PAGE: 1 of 1

PLOTTED: 06/21/2019 02:52 PM BY: MPalmer
PROJECT NUMBER: 20193892.001A OFFICE FILTER: PLEASANTON
gINT FILE: Klf_gint_master_2019 gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/24/2019	**Drilling Company:**	Taber	**BORING LOG B-2**	
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Solid Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	4 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION

Latitude: 38.12999°
Longitude: -121.24940°
Surface Condition: Topsoil/Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS: USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		approximately 6 inches of topsoil, dark brown, moist												hand auger to 5.5 feet
		Silty Clayey SAND (SC-SM): fine to coarse-grained sand, low plasticity, dark brown, moist												
5		increased silt with depth	1		BC=7 7 6			15.3	94.8		63			switch to solid stem auger at 5.5 feet TXUU: c = 1.95 ksf
		Sandy Lean CLAY (CL): fine to coarse-grained sand, low plasticity, dark brown, moist, medium dense, trace roots	2		BC=4 17 23									
		dry, dense, strongly cemented, thin layer at 8.5'												
10			3		BC=3 15 33									poured water down boring to assist in drilling difficulty
15		low to medium plasticity, very dense	4		BC=3 22 35									poured water down boring to assist in drilling difficulty
20		low to medium plasticity, medium dense	5		BC=3 11 12									
		Poorly Graded SAND (SP): fine to coarse-grained sand, non-plastic, reddish brown, dense												
25			6		BC=9 17 17									strong grinding noise during advancement of solid stem auger
30		non-plastic, medium dense	7		BC=13 18 20									
		Clayey SAND (SC): fine to coarse-grained sand, low plasticity, gray, dry, dense												

The boring was terminated at approximately 31.5 ft. below ground surface. The boring was backfilled with neat cement on May 24, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-2

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-3

PAGE: 1 of 1

PLOTTED: 06/21/2019 02:52 PM BY: MPalmer
OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193892.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/28/2019	**Drilling Company:**	Taber	**BORING LOG B-3**	
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Solid Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	4 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION | LABORATORY RESULTS

Latitude: 38.12947°
Longitude: -121.24890°
Surface Condition: Topsoil/Dry Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		approximately 6 inches of topsoil, dark brown, dry												hand auger to 5 feet
		Poorly Graded SAND with Silt (SP-SM): fine to coarse-grained sand, non-plastic, dark brown, moist, more silt with depth												
5		loose	1		BC=5 5 5			10.5	112.2					switch to solid stem auger at 5 feet
		Silty SAND (SM): fine to coarse-grained sand, non-plastic, yellowish brown, moist, medium dense, trace clay	2		BC=3 4 11									
10		**Poorly Graded SAND (SP)**: fine to coarse-grained sand, non-plastic, reddish brown, dry, medium dense	3		BC=4 12 10									
		Clayey SAND (SC): fine to coarse-grained sand, low to medium plasticity, yellowish brown, dry, medium dense												
15		**Poorly Graded SAND (SP)**: fine to coarse-grained sand, non-plastic, dark brown, dry, dense	4		BC=13 17 20									
		Clayey SAND (SC): fine to coarse-grained sand, low to medium plasticity, yellowish brown, dry, dense												
20		**Poorly Graded SAND (SP)**: fine to coarse-grained sand, non-plastic, dark brown, dry, medium dense	5		BC=8 9 10									difficultly advancing solid stem augers grinding noise. Poured water down boring to assist in drilling difficulty
25			6		BC=11 10 11									
		Silty SAND (SM): fine to coarse-grained sand, trace clay, low plasticity, olive brown, dry, dense												
30			7		BC=10 13 17						16			

The boring was terminated at approximately 31.5 ft. below ground surface. The boring was backfilled with neat cement on May 28, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
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PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-3

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-4

PAGE: 1 of 1

PLOTTED: 06/21/2019 02:52 PM BY: MPalmer
PROJECT NUMBER: 20193892.001A OFFICE FILTER: PLEASANTON
gINT FILE: Klf_gint_master_2019 gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/23/2019	**Drilling Company:**	Taber	**BORING LOG B-4**	
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	6 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION

Latitude: 38.12929°
Longitude: -121.24990°
Surface Condition: Topsoil/Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)
		approximately 6 inches of topsoil, dark brown, dry				
		Poorly Graded SAND (SP-SM): fine to medium-grained sand, non-plastic, dark brown, moist, trace roots, with silt				
		Silty SAND (SM): fine to medium-grained sand, non-plastic, dark brown, moist				
5			1		BC=4 6 4	
			2		BC=3 4 7	
10			3		BC=7 7 6	
15		**Poorly Graded SAND with Clay (SP-SC)**: fine to coarse-grained sand, low plasticity, reddish brown, moist, medium dense	4		BC=6 8 9	
		Poorly Graded SAND (SP): fine to coarse-grained sand, non-plastic, reddish brown, dry, dense				
20			5		BC=14 16 19	
25		non-plastic, reddish brown, medium dense	6		BC=7 12 13	
		Clayey SAND (SC): fine to medium-grained sand, low plasticity, gray, dry, medium dense				
		Poorly Graded SAND (SP): fine to coarse-grained sand, non-plastic, reddish brown, dry, dense				
30			7		BC=9 16 20	

LABORATORY RESULTS

USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
							hand auger to 5 feet
				28	NP	NP	switch to hollow stem auger at 5 feet
				23			
							very difficult to auger

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PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-4

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-5

gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20193892.001A
OFFICE FILTER: PLEASANTON
PLOTTED: 06/21/2019 02:52 PM BY: MPalmer

PLOTTED: 06/21/2019 02:52 PM BY: MPalmer

BORING LOG B-4

Date Begin - End:	5/23/2019	**Drilling Company:**	Taber		
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	6 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION | LABORATORY RESULTS

Latitude: 38.12929°
Longitude: -121.24990°
Surface Condition: Topsoil/Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Poorly Graded SAND (SP): fine to coarse-grained sand, non-plastic, reddish brown, dry, dense	8		BC=9 9 15									
		non-plastic, reddish brown gray, medium dense												
40		reddish brown, dense	9		BC=10 14 20									
45			10		BC=7 11 13									
50			11		BC=11 11 12									
55														
60														
65														

The boring was terminated at approximately 51.5 ft. below ground surface. The boring was backfilled with neat cement on May 23, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193892.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

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PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-4

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-5

Date Begin - End:	5/23/2019	**Drilling Company:**	Taber	**BORING LOG B-5**	
Logged By:	H. Fattal	**Drill Crew:**	Rick & David		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger	**Hammer Efficiency:**	89%
Weather:	Not Available	**Exploration Diameter:**	4 in. O.D.	**Hammer Cal. Date:**	10/26/2018

FIELD EXPLORATION | LABORATORY RESULTS

Latitude: 38.12889°
Longitude: -121.24940°
Surface Condition: Topsoil/Dry Grass

Depth (feet)	Graphical Log	Lithologic Description	Sample Number	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		approximately 6 inches of topsoil, dark brown, moist												hand auger to 5 feet
		Poorly Graded SAND with Silt (SP-SM): fine to coarse-grained sand, non-plastic, orangish brown, dry												
		Clayey SAND (SC): fine to coarse-grained sand, low plasticity, dark brown, moist												
5		**Silty SAND (SM)**: fine to coarse-grained sand, low plasticity, reddish brown, dry, medium dense	1		BC=6 9 8			18.8	103.7					switch to solid stem auger at 5 feet
		Clayey SAND (SC): fine to coarse-grained sand, low plasticity, reddish brown, dry, medium dense, thin strongly cemented layer, cementation weaker with depth	2		BC=12 7 12									
10		**Poorly Graded SAND (SP)**: fine to coarse-grained sand, non-plastic, reddish brown, dry, medium dense, trace roots, trace clay	3		BC=12 18 26							24	9	
		Sandy Lean CLAY (CL): fine to medium-grained sand, medium plasticity, reddish brown, dry, hard												
15		**Clayey SAND (SC)**: fine to coarse-grained sand, low plasticity, reddish brown, dry, medium dense	4		BC=14 23 32									
		Poorly Graded SAND with Silt (SP-SM): fine to coarse-grained sand, low plasticity, reddish brown, dry, very dense												
		Poorly Graded SAND with trace Silt (SP): fine to coarse-grained sand, non-plastic, dark brown, dry, dense												poured water down boring
20			5		BC=6 19 22									
		Poorly Graded SAND with Clay (SP-SC): low plasticity, dark brown, dry, dense												
25			6		BC=13 16 19									
		Clayey SAND (SC): fine to coarse-grained sand, non-plastic, dark brown, dry, medium dense												
30		**Poorly Graded SAND (SP)**: fine to coarse-grained sand, non-plastic, dark brown, dry, dense, trace clay	7		BC=11 14 17									

The boring was terminated at approximately 31.5 ft. below ground surface. The boring was backfilled with neat cement on May 23, 2019.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	6/17/2019

BORING LOG B-5

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
A-6

PAGE: 1 of 1

PLOTTED: 06/21/2019 02:53 PM BY: MPalmer
OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193892.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [_KLF_BORING/TEST PIT SOIL LOG]

APPENDIX B

LABORATORY TEST RESULTS

Exploration ID	Depth (ft.)	Sample No.	Sample Description	Water Content (%)	Dry Unit Wt. (pcf)	Sieve Analysis (%)			Atterberg Limits			Additional Tests
						Passing 3/4"	Passing #4	Passing #200	Liquid Limit	Plastic Limit	Plasticity Index	
B-1	6.0			8.7	88.7							
B-1	8.0		DARK YELLOWISH BROWN SILTY CLAYEY SAND (SC-SM)					14				
B-1	15.0	4	DARK YELLOWISH BROWN CLAYEY SAND (SC)						23	13	10	
B-2	6.0			15.3	94.8							TXUU: c = 1.95 ksf
B-2	6.5		OLIVE BROWN SANDY LEAN CLAY (CL)					63				
B-3	6.0			10.5	112.2							
B-3	30.0	7	LIGHT OLIVE BROWN SILTY SAND (SM)					16				
B-4	5.5		DARK YELLOWISH BROWN SILTY SAND (SM)					28	NP	NP	NP	
B-4	10.0	3	DARK YELLOWISH BROWN SILTY SAND (SM)					23				
B-5	6.0			18.8	103.7							
B-5	10.0	3	DARK YELLOWISH BROWN SANDY LEAN CLAY (CL)						24	15	9	

Refer to the Geotechnical Evaluation Report or the supplemental plates for the method used for the testing performed above.
NP = NonPlastic
NA = Not Available

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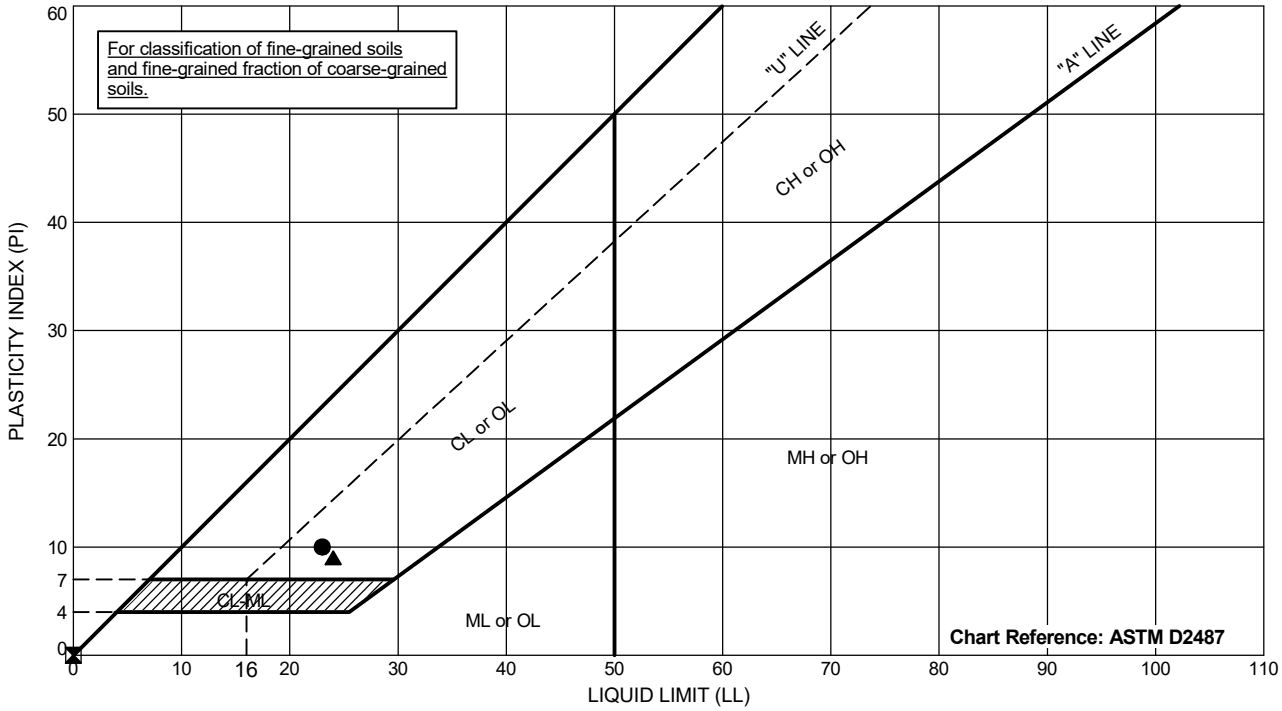
PROJECT NO.: 20193892
DRAWN BY: JDS
CHECKED BY: HF
DATE: 5/29/2019
REVISED: -

LABORATORY TEST RESULT SUMMARY

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

FIGURE
B-1



Exploration ID		Depth (ft.)	Sample Number	Sample Description	Passing #200	LL	PL	PI
●	B-1	15	4	DARK YELLOWISH BROWN CLAYEY SAND (SC)	NM	23	13	10
⊠	B-4	5.5	NA	DARK YELLOWISH BROWN SILTY SAND (SM)	28	NP	NP	NP
▲	B-5	10	3	DARK YELLOWISH BROWN SANDY LEAN CLAY (CL)	NM	24	15	9

Testing performed in general accordance with ASTM D4318.
NP = Nonplastic
NA = Not Available
NM = Not Measured

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PROJECT NO.:	20193892
DRAWN BY:	JDS
CHECKED BY:	HF
DATE:	5/29/2019
REVISED:	-

ATTERBERG LIMITS

PG&E Thurman Substation
1215 East Thurman Road
Lodi, CA

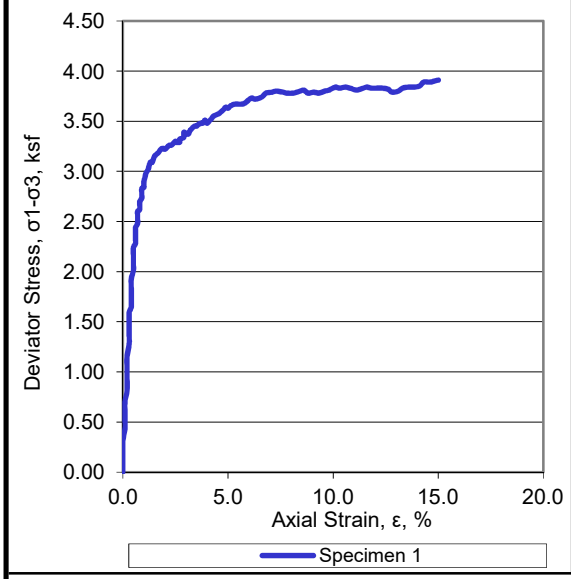
FIGURE
B-1

PLOTTED: 06/10/2019 10:26 AM BY: CPimentel
OFFICE FILTER: PLEASANTON
PROJECT NUMBER: 20193892.001A
gINT FILE: Klf_gint_master_2019
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2019.GLB [KLF_ATTERBERG (ASTM)]

Total	
c = 1.95	ksf

Specimen Shear Picture





Specimen No.			1
Initial	Diameter, in	D_O	2.40
	Height, in	H_O	5.63
	Water Content, %	ω_O	15.3
	Dry Density, lbs/ft^3	$^{\gamma}d_o$	94.8
	Saturation, %	S_O	54
	Void Ratio	e_O	0.744
Minor Principal Stress, ksf		σ_3	0.75
Maximum Deviator Stress, ksf		$(\sigma 1-\sigma 3)_{max}$	3.91
Time to $(\sigma_1-\sigma_3)_{max}$, min		t_f	15.02
Deviator Stress @ 15% Axial Strain, ksf		$(\sigma_1-\sigma_3)_{15\%}$	3.91
Ultimate Deviator Stress, ksf		$(\sigma_1-\sigma_3)_{ult}$	na
Rate of strain, %/min		$'\varepsilon$	1.00
Axial Strain at Failure, %		ε_f	15.02

Description of Specimen: Dark Yellowish Brown Sandy Silt (ML)

Amount of Material Finer than the No. 200, %: nm

LL:	PL:	PI:	G_S:	Specimen Type:	Test Method:
nm	nm	nm	2.65 Assumed	Undisturbed	ASTM D2850

Membrane correction applied

Boring:	B-2
Sample:	1B
Depth, ft:	6.0
Test Date:	6/5/19

Remarks: nm= not measured, na = not applicable

KLEINFELDER
Bright People. Right Solutions.
2601 Barrington Ct, Hayward, CA 94545

Project No.:	20193892
Date:	6/10/19
Entry By:	CP
Checked By:	CP
File Name:	HL12171

TRIAXIAL COMPRESSION TEST (UU)

PG&E THURMAN SUBSTATION
1215 EAST THURMAN ROAD
LODI, CALIFORNIA

Figure
1 of 1

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: Kleinfelder
Client's Project No.: 20193892
Client's Project Name: PG&E Thurman Substation
Date Sampled: 05/24 - 28/19
Date Received: 5-Jun-2019
Matrix: Soil
Authorization: Laboratory Testing Program

Date of Report: 13-Jun-2019

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Resistivity (As Received) (ohms-cm)	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
1906023-001	4 Bulk	+320	7.21	29,000	22,000	N.D.	N.D.	N.D.

Method:	ASTM D1498	ASTM D4972	ASTM G57	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	-	-	50	15	75
Date Analyzed:	12-Jun-2019	11-Jun-2019	7-Jun-2019	7-Jun-2019	7-Jun-2019	11-Jun-2019	11-Jun-2019

* Results Reported on "As Received" Basis
N.D. - None Detected

Cheryl McMillen
Laboratory Director

Quality Control Summary - **All laboratory quality control parameters were found to be within established limits**

APPENDIX C

INFILTRATION TEST DATA

SimplyData Software Suite

Aardvark Permeameter

Location: Thurman Sub
Site: Thurman Sub Boring B-5

Date of Readings:

Time interval: 2 minutes

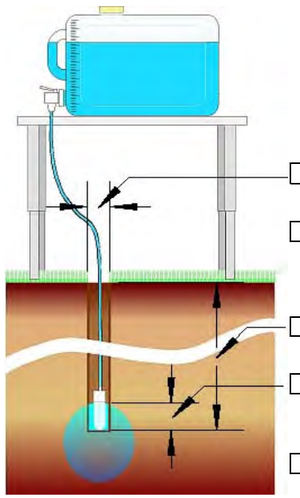
Ksat Method: Earth Manual

Steady Flow Rate achieved when Water Consumption Rate changes less than
+/- 10 % for 3 consecutive readings

Steady Flow Rate:	16.500 ml/min
Tmp Adj Flow Rate:	16.501 ml/min
Percolation Rate:	8.044 min/cm
Ksat:	3.69E-05 cm / sec

Site Details:

Notes:



Site GPS Position

Longitude: 121.2495 degrees West
Latitude: 38.12878 degrees North

5.1 inches — Hole Diameter

60.1 º F — Water Temperature

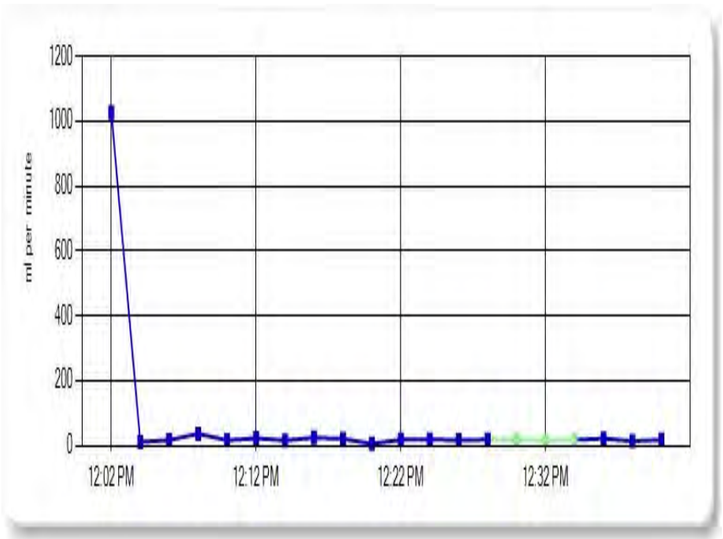
59.8 inches — Hole Depth

72.8 inches — Water Height in Hole

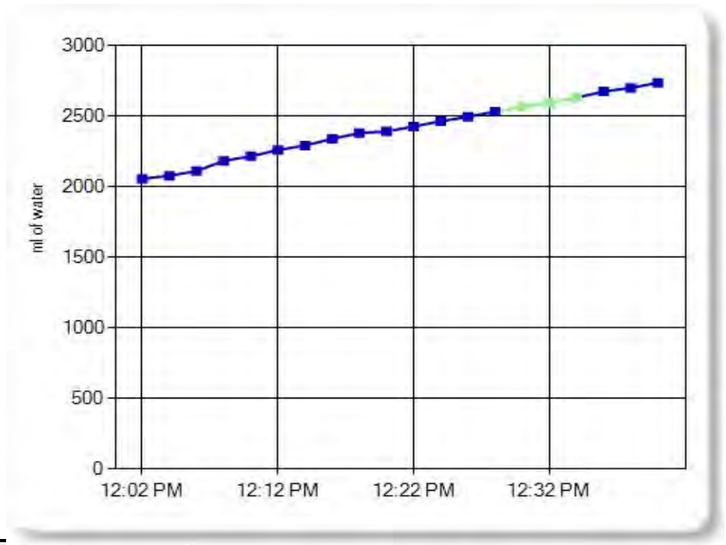
Water Table Depth

Soil Texture Structure Category:
Most structured soils from clays through loams; also includes unstructured medium and fine sands. The category most frequently applicable for agricultural soils.

Water Consumption Rate



Total Water Consumed



Time	Reservoir Water Level (ml)	Elapsed Time Interval (minutes)	Interval Water Consumed (ml)	Total Water Consumed (ml)	Water Consumption Rate (ml / min)	Ignore this Reading?
5/23/2019 12:00:48 P	8363.8	0				
5/23/2019 12:02:48 P	6309.4	2	2054.4	2054.4	1027.2	
5/23/2019 12:04:48 P	6288	2	21.4	2075.8	10.7	
5/23/2019 12:06:48 P	6254.8	2	33.2	2109	16.6	
5/23/2019 12:08:48 P	6182.4	2	72.4	2181.4	36.2	
5/23/2019 12:10:48 P	6150.4	2	32	2213.4	16	
5/23/2019 12:12:48 P	6105.6	2	44.8	2258.2	22.4	
5/23/2019 12:14:48 P	6074	2	31.6	2289.8	15.8	
5/23/2019 12:16:48 P	6026.4	2	47.6	2337.4	23.8	
5/23/2019 12:18:49 P	5985.2	2	41.2	2378.6	20.43	
5/23/2019 12:20:49 P	5974.6	2	10.6	2389.2	5.3	
5/23/2019 12:22:49 P	5939.2	2	35.4	2424.6	17.7	
5/23/2019 12:24:49 P	5902	2	37.2	2461.8	18.6	
5/23/2019 12:26:49 P	5869.6	2	32.4	2494.2	16.2	
5/23/2019 12:28:49 P	5833.8	2	35.8	2530	17.9	
5/23/2019 12:30:49 P	5800	2	33.8	2563.8	16.9	
5/23/2019 12:32:49 P	5768.8	2	31.2	2595	15.6	
5/23/2019 12:34:49 P	5734.8	2	34	2629	17	
5/23/2019 12:36:49 P	5691.6	2	43.2	2672.2	21.6	
5/23/2019 12:38:49 P	5665.4	2	26.2	2698.4	13.1	
5/23/2019 12:40:49 P	5629.8	2	35.6	2734	17.8	

APPENDIX D

GBA INFORMATION SHEET

Important Information about This

Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled*. No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

This Report May Not Be Reliable

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be*, and, in general, *if you are the least bit uncertain* about the continued reliability of this report, contact your geotechnical engineer before applying it. A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed*. The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only*. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures*. If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old.*

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, ***proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration.*** Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. ***Geotechnical engineers are not building-envelope or mold specialists.***

GEOPROFESSIONAL BUSINESS ASSOCIATION

Telephone: 301/565-2733
e-mail: info@geoprofessional.org www.geoprofessional.org

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Appendix F3
LEU Industrial and Guild Substations Geotechnical Investigation Report

[redacted]

Preliminary Subsurface Information for the Electric Industrial Substation Expansion Lodi, California

THERE IS NO EXPRESS OR IMPLIED GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA CONTAINED HEREIN, NOR OF THE INTERPRETATION THEREOF BY BURNS & McDONNELL ENGINEERING COMPANY OR ANY OF THEIR REPRESENTATIVES.

THE SUBSURFACE INFORMATION AND DATA CONTAINED HEREIN DO NOT FORM A PART OF ANY CONTRACT DOCUMENT ISSUED BY BURNS & McDONNELL.

Northern California Power Agency
Lodi, California
Project No. 118664
January 2020

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Page No.

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APPENDIX A – REPORT BY KLEINFELDER

1.0 GENERAL

This subsurface information document consists of a report titled *Preliminary Geotechnical Report, Lodi Electric Industrial Substation Expansion*, dated December 27, 2019. This *Preliminary Geotechnical Report* was prepared by Kleinfelder, Inc. (Kleinfelder) of Pleasanton, CA.

Neither drilling nor laboratory testing was performed by Kleinfelder in the preparation of the *Preliminary Geotechnical Report*. The *Preliminary Geotechnical Report* was developed by Kleinfelder from other site investigations completed by Kleinfelder in the vicinity of this project site. The *Preliminary Geotechnical Report*, as prepared by Kleinfelder, is included in Appendix A of this document.

2.0 LIMITATIONS

2.1 Document Use

The information presented in this document has been prepared for the use of Burns & McDonnell. No other warranty, express or implied, is made as to the information included in this document. In the event that conclusions and recommendations based on data contained in this document are made by others, such conclusions and recommendations are the responsibility of others.

The information gathered and presented in this document was not obtained for an environmental audit nor to evaluate the potential for hazardous materials at the Site. The equipment, techniques, and personnel used to perform geoenvironmental exploration differ substantially from those applied in soil and foundation engineering.

This document is not intended to be utilized as a Geotechnical Baseline Report.

2.2 Variations

The subsurface information submitted in this document is based upon information obtained from site investigations completed in the vicinity of this Site. This document does not reflect variations which may occur, the nature and extent of which may not become evident until construction is performed. If during construction, soil, rock, and/or groundwater conditions appear to be different from those described herein, Burns & McDonnell should be advised so that recommendations made may be evaluated and modified, if necessary. Fluctuations or changes in water levels and groundwater conditions can be influenced by sources outside the site investigated, by seasonal rainfall, and by changes in drainage conditions in and around the Site.

APPENDIX A – REPORT BY KLEINFELDER

Preliminary Geotechnical Report, Lodi Electric Industrial Substation Expansion
Lodi, California
Report Prepared for Burns & McDonnell
Report Prepared by Kleinfelder, Inc.
Report Dated 12/27/2019

PRELIMINARY GEOTECHNICAL REPORT
LODI ELECTRIC INDUSTRIAL SUBSTATION EXPANSION
1215 EAST THURMAN STREET
LODI, CALIFORNIA

PROJECT NO. 20202783.001A

DECEMBER 27, 2019

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ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.

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December 27, 2019
Project No. 20202783.001A

Michael D. Washburn, Senior Electrical Engineer
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
Via Email: mdwashburn@burnsmcd.com

SUBJECT: Preliminary Geotechnical Report

PROJECT: Lodi Electric Industrial Substation Expansion
1215 East Thurman Street
Lodi, California

Dear Mr. Washburn:

The attached report presents Kleinfelder's preliminary geotechnical recommendations for the Lodi Electric Industrial Substation Expansion located in Lodi, California. The report describes the study, findings, conclusions, and recommendations for use in project planning, preliminary design and preparation of preliminary construction specifications. Kleinfelder's services are authorized by our proposal dated October 14, 2019 and were performed in general accordance with the terms of our Master Services Agreement No. 4400007810.

The primary geotechnical concern at this site is shallow foundation support and potential caving of drilled pier excavations due to the loose to medium dense sand soils that are anticipated to be in the subsurface. Based on historical information and Kleinfelder's experience in the area, it is our professional opinion that the subject site is geotechnically suitable for construction of the proposed improvements using conventional grading and shallow and deep foundation systems. Preliminary recommendations for shallow slab, spread footing, and drilled pier foundations are provided in this report. The preliminary recommendations presented herein may be incorporated into project planning, project design, and preparation of construction specifications.

Kleinfelder should review the project plans and specifications when complete to assess if the preliminary recommendations provided herein are consistent with our assumptions and limited understanding of the project. In addition, a final Geotechnical Investigation Report should be prepared that includes nearby subsurface soil data, as permitted, or borings and appropriate testing shall be performed to support the preparation of final plans and specifications for construction.

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Kleinfelder appreciates the opportunity to provide geotechnical engineering services to Burns & McDonnell during the planning and preliminary design phase of this project. If there are any questions concerning the information presented in this report, please contact this office at your convenience.

Respectfully Submitted,

KLEINFELDER, INC.



Alvin Lin
Professional





Stephen P. Plauson, PE, GE
Principal Geotechnical Engineer

cc: Yvonne Barnard (ybarnard@kleinfelder.com)
Kris Johnson (kjjohnson@kleinfelder.com)
Liana Serrano (lserrano@kleinfelder.com)

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Figure 2 Geology Map
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APPENDICES

Appendix A GBA Information Sheet

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1 INTRODUCTION

This report presents the results of a geotechnical engineering data study for the Lodi Electric Industrial Substation Expansion, located at 1215 East Thurman Street in Lodi, California. A site plan and vicinity map are shown on Figure 1. Kleinfelder was retained by Burns & McDonnell to provide geotechnical engineering services for the project. The purpose of this report is to provide preliminary geotechnical engineering recommendations to aid in preliminary project design and preparation of preliminary construction specifications based on Kleinfelder's experience in the area.

1.1 PROPOSED CONSTRUCTION

Project understanding is based on email and telephone correspondence with the project team through September 17, 2019. We understand that Lodi Electric plans to expand the existing Industrial Substation. At this time, foundation loading and dimensions for the aforementioned structures has not been provided. Kleinfelder should review the project plans and specifications when complete to assess if the preliminary recommendations provided herein are consistent with our assumptions and limited understanding of the project. In addition, a final Geotechnical Investigation Report should be prepared that includes nearby subsurface soil data, as permitted, or borings and appropriate testing shall be performed to support the preparation of final plans and specifications for construction.

1.2 PURPOSE AND SCOPE OF SERVICES

The purpose of this data study was to develop geotechnical conclusions and recommendations for use in preliminary project design and specification development. To accomplish these purposes, Kleinfelder's scope of services involves preparing this preliminary report including the following:

- A description of the proposed project including a site vicinity map and site plan.
- General descriptions of the local and regional geology, including a geologic map.
- 2016 California Building Code seismic design criteria.
- Recommendations for site preparation and earthwork.
- Discussion of general earthwork concerns including rock excavation, reuse of onsite soil for engineered fill, and wet weather grading recommendations.
- Recommendations to aid in the design of site drainage.

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- General recommendations for concrete slab and/or spread footing foundations to support substation structures, including bearing capacity, lateral resistance, and settlement estimates.
- An axial capacity analysis for a single drilled pier foundation of a unit diameter based on one possible soil profile across the site.
- Recommendations for lateral capacity of deep foundations including one subsurface profile for use in L-pile analysis.
- Recommendations for drilled pier construction, including recommended drilling methods and concrete placement guidelines.
- Comments on the corrosion potential of foundation soil.

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2 PREVIOUS STUDIES

2.1 PREVIOUS STUDIES

Kleinfelder has performed multiple investigations in the vicinity of the project site. These nearby investigations were reviewed, and relevant data were used to characterize the subsurface conditions in the vicinity of the project site and to develop preliminary recommendations.

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3 GEOLOGIC CONDITIONS

3.1 AREA AND SITE GEOLOGY

The site is located along the central section of the Great Valley geomorphic province in central California. The valley is a large northwestward trending, asymmetric structural trough that has been filled with as much as 6 vertical miles of sediment. The trough is situated between the Sierra Nevada Mountains on the east and the Coast Range Mountains on the west. Both mountain ranges were initially formed by regional uplifts that occurred during the Jurassic and Cretaceous periods of geologic time (greater than 65 million years ago). Renewed uplift began in the Sierra Nevada during late Tertiary time and is continuing today. The deepest and oldest of the sediments that fill the structural trough are marine sediments deposited before the uplift of the Coast Ranges. A mix of marine and continental deposits formed over these older units as seas advanced and retreated in the Sacramento and San Joaquin Valleys. The upper and youngest sediments in the basin are continental deposits consisting of alluvial fan deposits and flood-basin, lake, and marsh deposits.

According to geologic mapping by Marchand and Bartow (1979) and Dawson (2009), the substation area is underlain by Pleistocene aged terrace and alluvial fan deposits of the Upper Modesto formation (see Figure 2). In the project area, these soils generally consist of silts, sands, and gravels with minor clays, which are relatively comparable to the mapped deposits. Regional groundwater levels in the area are greater than 70 feet deep based on DWR well records near the site.

3.2 LOCAL AND REGIONAL FAULTING

The site is not located within a State-designated Alquist-Priolo Earthquake Fault Zone where site-specific studies addressing the potential for surface fault rupture are required, and no known active faults traverse the site. The nearest zoned faults to the project site are the Greenville fault (located about 32 miles to the southwest), Calaveras fault (located about 44 miles to the southwest), Hayward fault (located about 52 miles to the southwest), and San Andreas fault zone (located about 71 miles to the southwest).

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4 SITE CONDITIONS

4.1 SITE AND SURFACE DESCRIPTION

The existing Lodi Electric Industrial Substation is located at 1215 East Thurman Road in Lodi, California. The area of expansion is located within an undeveloped area, directly east of the existing substation at the aforementioned address. The undeveloped area is bordered by developed commercial property on all sides, with East Thurman Road to its south, and rail lines with East Lodi Avenue beyond to the north. The expansion area is relatively level and was observed to be covered with dried vegetation by Kleinfelder staff visiting an adjacent property in May of 2019.

4.2 SUBSURFACE CONDITIONS

Based on previous borings in the vicinity of the subject site and local geology, we anticipate that the subsurface soils include interbedded layers of silty sand, poorly graded sand, and clayey sands. The near surface soils are generally found to be relatively loose in the upper 5 feet and typically increase in relative density with subsequent depth. We also anticipate that there is a layer of disked topsoil in the upper 6 to 12 inches of the site based from review of aerial images from Google Earth, our experience with adjacent properties, and knowledge with typical disking of sites to maintain weed control.

4.3 GROUNDWATER

According to regional well record data published by the State Water Resources Control Board (https://www.waterboards.ca.gov/), regional groundwater levels are generally greater than 70 feet below the ground surface. Regional groundwater was not encountered during our explorations.

It is possible that groundwater conditions at the site could change due to variations in rainfall and runoff, regional groundwater withdrawal or recharge, construction activities, or other factors not apparent at the time the study was performed.

4.4 VARIATIONS IN SUBSURFACE CONDITIONS

Our interpretations of soil and groundwater conditions at the site are based on the conditions encountered in the borings drilled for this project. The conclusions and recommendations that follow are based on those interpretations. If soil or groundwater conditions exposed during construction vary from those presented in this report, Kleinfelder should be notified to evaluate whether our conclusions or recommendations should be modified.

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5 CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical standpoint, the proposed construction is feasible provided the recommendations presented in this report are incorporated into the project design and construction. The following sections discuss conclusions and recommendations with respect to geologic and seismic hazards, California Building Code (CBC) design considerations, site preparation and grading, and foundation design.

5.1 2016 CBC SEISMIC DESIGN PARAMETERS

5.1.1 Site Class

Based on information obtained from the investigation, published geologic literature and maps, and on our interpretation of the 2016 California Building Code (CBC) criteria, it is our opinion that the project site may be classified as Site Class D, Stiff Soil, according to Section 1613.3.2 of 2016 CBC and Table 20.3-1 of American Society of Civil Engineers (ASCE) 7-10 (2010). Site Class D is defined as a soil profile consisting of stiff soil profile with a shear wave velocity between 600 feet per second and 1,200 feet second, standard penetration test (SPT) blow counts (N-value) between 15 blows per foot and 50 blows per foot, or undrained shear strength between 1,000 pounds per square foot and 2,000 pounds per square foot in the top 100 feet.

5.1.2 Seismic Design Parameters

Approximate coordinates for the site are noted below.

- Latitude: 38.129283331 °
- Longitude: -121.25073160 °

For a 2016 California Building Code (CBC) based design, the estimated Maximum Considered Earthquake (MCE) mapped spectral accelerations for 0.2 second and 1 second periods (S_S and S_1), associated soil amplification factors (F_a and F_v), and mapped peak ground acceleration (PGA) are presented in Table 5-1. Corresponding site modified (S_{MS} and S_{M1}) and design (S_{DS} and S_{D1}) spectral accelerations, PGA modification coefficient (F_{PGA}), PGA_M, risk coefficients (C_{RS} and C_{R1}), and long-period transition period (T_L) are also presented in Table 5-1. Presented values were estimated using Section 1613.3 of the 2016 California Building Code (CBC), Chapters 11 and 22 of ASCE 7-10, and the United States Geological Survey (USGS) U.S. seismic design maps (https://seismicmaps.org/).

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Table 5-1
Ground Motion Parameters Based on 2016 CBC

Parameter	Value	Reference
S_S	0.725g	2016 CBC Section 1613.3.1
S_1	0.295g	2016 CBC Section 1613.3.1
Site Class	D	2016 CBC Section 1613.3.2
F_a	1.22	2016 CBC Table 1613.3.3(1)
F_v	1.811	2016 CBC Table 1613.3.3(2)
PGA	0.249g	ASCE 7-10 Figure 22-7
S_{MS}	0.884g	2016 CBC Section 1613.3.3
S_{M1}	0.534g	2016 CBC Section 1613.3.3
S_{DS}	0.590g	2016 CBC Section 1613.4.4
S_{D1}	0.356g	2016 CBC Section 1613.4.4
F_{PGA}	1.301	ASCE 7-10 Table 11.8-1
PGA_M	0.325g	ASCE 7-10 Section 11.8.3
C_{RS}	1.1	ASCE 7-10 Figure 22-17
C_{R1}	1.142	ASCE 7-10 Figure 22-18
T_L	12 seconds	ASCE 7-10 Figure 22-12

5.2 LIQUEFACTION

Earthquake-induced soil liquefaction can be described as a significant loss of soil strength and stiffness caused by an increase in pore water pressure resulting from cyclic loading during shaking. Liquefaction is most prevalent in loose to medium dense, sandy and gravely soils below the groundwater table but can also occur in non-plastic to low-plasticity, finer-grained soils. The potential consequences of liquefaction to engineered structures include loss of bearing capacity, buoyancy forces on underground structures, ground oscillations or “cyclic mobility,” increased lateral earth pressures on retaining walls, liquefaction settlement, and lateral spreading or “flow failures” in slopes.

Based on the experience in the area and historical depth to groundwater at the site, the potential for liquefaction is considered negligible.

5.3 EXPANSIVE SOILS

Based on experience and historical information in the area, we do not anticipate the surficial soils will shrink or swell significantly as a result of soil moisture content changes.

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5.4 SITE PREPARATION

5.4.1 General

Considering site grades are presently well established, site grading is anticipated to be minimal, minus the grading for the proposed pond. General recommendations for site preparation and earthwork construction are presented in the following sections of this report. All earthwork, including excavation, backfill and preparation of subgrade, should be performed in accordance with the geotechnical recommendations presented in this report and applicable portions of the grading code of local regulatory agencies. The grading contractor is responsible to notify governmental agencies, as required, and the geotechnical engineer at the start of site cleanup, the initiation of grading and any time that grading operations are resumed after an interruption. All earthwork should be performed under the observation and testing of a Kleinfelder representative. All references to compaction, maximum density and optimum moisture content are based on ASTM D1557, unless otherwise noted.

5.4.2 Stripping and Grubbing

Any miscellaneous surface or encountered subsurface obstructions, vegetation, debris, or other deleterious materials should be removed from the project area prior to any site grading. Based on experience in the area, the site surface may be loose and contain organics of seasonal vegetation due to previous disking for weed control. The depth of stripping at the time of construction should be enough to remove the visible organics. The stripped materials should not be incorporated into any engineered fill unless they can be thoroughly blended to achieve an organic content less 3 percent by weight and no visible organic matter.

5.4.3 Disturbed Soil, Undocumented Fill and Subsurface Obstructions

Initial site grading should include a reasonable search to locate soil disturbed by previous activity and abandoned underground structures or existing utilities that may exist within the areas of construction. Any loose or disturbed soils, void spaces that may be encountered should be over-excavated to expose firm and relatively unyielding native soil, as approved by a representative of Kleinfelder.

Unless approved otherwise by an on-site representative of Kleinfelder during grading, undocumented fills at the locations of any future grading or shallow foundations should be over-excavated and replaced with engineered fill as recommended below in the “Engineered Fill-Placement and Compaction Criteria” section of this report.

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5.4.4 Scarification and Compaction

In areas requiring placement of fill, it is recommended the fill be placed and compacted as engineered fill. Following site stripping and any required grubbing and/or over-excavation, it is recommended areas to receive engineered fill be scarified to a depth of 8 inches, uniformly moisture conditioned to at least the optimum moisture content for sandy soils (SP, SM, SC) or at least 3 percent above the optimum moisture content for clayey soils (CL, CH) and compacted to at least 90 percent relative compaction for sandy soils or between 88 and 92 percent relative compaction for clayey soils, as determined by ASTM D1557.

5.5 ENGINEERED FILL

5.5.1 Onsite Materials

The on-site soil appears suitable for use as engineered fill. All engineered fill should be free of debris, visible organics, or other deleterious materials, and have a maximum particle size less than 3 inches in maximum dimension. Where imported material is brought in, it is recommended that it be granular in nature and conform to the minimum criteria discussed in Table 5-2.

5.5.2 Non-Expansive Engineered Fill Requirements

Specific requirements for engineered fill as well as applicable test procedures to verify material suitability are provided below:

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Table 5-2
Engineered Fill Requirements

Fill Requirement		Test Procedures	
		ASTM	Caltrans
Gradation			
Sieve Size	**Percent Passing**		
3 inch	100	D6913	202
¾ inch	70-100	D6913	202
No. 200	20-50	D6913	202
Plasticity			
Liquid Limit	**Plasticity Index**		
<30	<12	D4318	204
Organic Content			
No visible organics		---	---
Expansion Potential			---
20 or less		D4829	---
Soluble Sulfates			
Less than 2,000 ppm		---	417
Soluble Chloride			
Less than 300 ppm		---	422
Resistivity			
Greater than 2,000 ohm-cm		---	643

Materials to be used for engineered fill should be sampled and tested by Kleinfelder prior to being transported to the site. Highly pervious materials such as clean crushed stone or pea gravel are not recommended for use in engineered fill because they can permit transmission of water into the underlying materials. We recommend representative samples of imported materials proposed for use as engineered fill be submitted to Kleinfelder for testing and approval at least one week prior to the start of grading and import of this material.

In addition, we recommend that a laboratory corrosion test series (pH, resistivity, redox, sulfides, chlorides, and sulfates) be performed on all proposed import materials.

5.5.3 Placement and Compaction Criteria

Non-expansive soils that meet the criteria outlined in Table 5-2 that are to be used for engineered fill should be uniformly moisture conditioned to at least the optimum moisture content, placed in horizontal lifts less than about 8 inches in loose thickness, and compacted to at least 90 percent relative compaction, as determined by ASTM D1557. Onsite clayey soils to be used for general fill where engineered fill is not required should be uniformly moisture conditioned to at least 4 percent over the optimum moisture content, placed in horizontal lifts no more than about 8 inches

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in loose thickness, and compacted to between 88 and 92 percent relative compaction, as determined by ASTM D1557.

Additional fill lifts should not be placed if the previous lift did not meet the required relative compaction or moisture content, or if soil conditions are not stable. Disking or blending may be required to uniformly moisture condition soils used for engineered fill. Ponding or jetting compaction methods should not be allowed.

All site preparation and fill placement should be observed by Kleinfelder. It is important that during the stripping and scarification processes, a representative of Kleinfelder be present to observe whether any undesirable material is encountered in the construction area and whether exposed soils are similar to those encountered during the (future final) geotechnical site exploration.

5.6 WET WEATHER CONSIDERATIONS

Should construction be performed during or subsequently after wet weather, near-surface site soils may be significantly above the optimum moisture content. These conditions could hamper equipment maneuverability and efforts to compact site soils to the recommended compaction criteria. Disking to aerate, chemical treatment, replacement with drier material, stabilization with a geotextile fabric or geogrid, or other methods may be required to mitigate the effects of excessive soil moisture and facilitate earthwork and construction operations.

5.7 SITE DRAINAGE

Final site grading should provide surface drainage away from all structures and areas to be traversed by vehicles and maintenance equipment. In general, we recommend consideration be given to providing at least 2 percent slope away from structure foundations or access ways.

5.8 TEMPORARY EXCAVATIONS

5.8.1 General

All excavations should comply with applicable local, state, and federal safety regulations including the current Occupational Safety & Health Administration (OSHA) Excavation and Trench Safety Standards. Construction site safety generally is the responsibility of the Contractor, who is responsible for the means, methods, and sequencing of construction operations. Kleinfelder is providing the information below solely as a service to the client. Under no circumstances should

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the information provided be interpreted to mean that Kleinfelder is assuming responsibility for construction site safety or the Contractor's activities. Such responsibility is not being implied and should not be inferred.

5.8.2 Excavation and Slopes

Excavated slope height, slope inclination, or excavation depths (including utility trench excavations) should in no case exceed those specified in local, state, and/or federal safety regulations (e.g., OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926, or successor regulations). Such regulations are strictly enforced and, if they are not followed, the Owner, Contractor, and/or earthwork and utility subcontractors could be liable for substantial penalties.

Underground utilities should be located above a 1H:1V (horizontal to vertical) plane projected down and out from the bottoms of new footings to avoid undermining the footings during the excavation of the utility trench.

Heavy construction equipment, building materials, excavated soil, and vehicular traffic should be kept sufficiently away from the top of any excavation to prevent any unanticipated surcharging. Alternatively, excavation slopes and shoring systems can be designed to accommodate surcharge loadings, if necessary. Shoring, bracing, or underpinning required for the project (if any), should be designed by a professional engineer registered in the State of California.

5.9 TRENCH BACKFILL

All trench backfill should be placed and compacted in accordance with recommendations provided for engineered fill (see Section 5.5). Mechanical compaction is recommended. Ponding or jetting should not be used as a sole means of soil compaction.

5.10 SHALLOW FOUNDATIONS

This section provides general preliminary recommendations for shallow foundations. Kleinfelder should review the design to ensure compliance with the intent of the preliminary geotechnical conclusions and recommendations provided in this report. In addition, a final Geotechnical Investigation Report should be prepared that includes nearby subsurface soil data, as permitted, or borings and appropriate testing shall be performed to support the preparation of final plans and specifications for construction.

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Foundations should satisfy two independent criteria with respect to foundation soils. First, the foundation should have an adequate safety factor against bearing failure with respect to the shear strength of the foundation soils. Second, the vertical movements of the foundation due to settlement (both immediate elastic settlement and consolidation settlement) should be within tolerable limits for the structure. Depending on the settlement tolerance of planned structures, design loading, and foundation dimensions, the general recommendations presented in this report may be subject to modification. If future project needs require additional foundation capacity, Kleinfelder should be contracted to evaluate this potential for specific foundation designs.

Structures may be supported on conventional, shallow, reinforced concrete mat foundations or spread footings, provided the site structures can tolerate the anticipated settlement.

5.10.1 Spread Footings

5.10.1.1 Allowable Bearing Pressure

Shallow spread footings constructed of reinforced concrete may be founded on approved undisturbed native soil and/or engineered fill. The footings should be founded at least 18 inches below lowest adjacent finished grade on subgrade soils that have been prepared in accordance with the recommendations provided in this report. Continuous and isolated rectangular footings should have a minimum width of 12 inches.

For foundation subgrade prepared in accordance with the recommendations provided in this report, spread and strip footings may be designed for a net allowable bearing pressure of up to 2,000 pounds per square foot (psf) due to dead plus live loads. The weight of the foundation that extends below grade may be neglected when computing dead loads. The allowable bearing pressure includes a safety factor of at least 3 with respect shear failure of the foundation soils and may be increased by one-third for transient loading due to wind or seismic forces.

To maintain the desired support, foundations adjacent to utility trenches or other existing foundations should be deepened so that their bearing surfaces are below an imaginary plane having an inclination of 1 horizontal to 1 vertical, extending upward from the bottom edge of the adjacent foundations or utility trenches.

5.10.1.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the

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foundations. An allowable coefficient of sliding friction of 0.39 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the footing is protected from disturbance by concrete or pavement. The allowable friction coefficient and passive resistance may be used concurrently.

5.10.1.3 Settlement

Total settlement of an individual foundation will vary depending on the plan dimensions of the foundation and the actual load supported. Foundation dimensions and loads have not been provided for the proposed structures, we estimate maximum total settlement of foundations designed and constructed in accordance with the preceding recommendations of up to about ½ inch or less. Differential settlement between similarly loaded, adjacent footings are estimated to be about half the total settlement. The majority of foundation settlement is expected to occur rapidly and should be essentially complete shorty after initial application of the loads.

5.10.1.4 Shallow Foundation Construction Considerations

Prior to placing steel or concrete, foundation excavations should be cleaned of any debris, disturbed soil or water. All foundation excavations should be observed by a representative of Kleinfelder just prior to placing fill and/or steel or concrete. The purpose of these observations is to check that the bearing soils actually encountered in the foundation excavations are similar to those assumed in analysis and to verify the recommendations contained herein are implemented during construction.

5.10.2 Mat Foundations

Preliminary recommendations for design and construction of small mat slab foundations up to about 25 feet wide are presented below. Kleinfelder should be consulted to provide supplementary mat foundation recommendations if larger mat slab foundations are planned in the future.

5.10.2.1 Allowable Bearing Pressure

For subgrades prepared as recommended in this report, reinforced concrete mat foundations may be designed for a net allowable bearing pressure of 2,000 psf. If higher allowable bearing capacity for mat foundations is required, Kleinfelder should be consulted to provide supplemental

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engineering and construction recommendations on a case-by-case basis. The allowable bearing pressure applies to dead plus live loads, includes a safety factor of at least 3 with respect to shear failure of the foundation soils, and may be increased by one-third for short-term loading due to wind or seismic forces.

5.10.2.2 Lateral Load Resistance

Lateral loads may be resisted by a combination of friction between the foundation bottoms and the supporting subgrade, and by passive resistance acting against the vertical faces of the foundations. An allowable coefficient of sliding friction of 0.39 between the foundation and the supporting subgrade may be used for design. This value includes a safety factor of at least 1.5. For allowable passive resistance, an equivalent fluid weight of 360 pounds per cubic foot (pcf) acting against the side of the foundation may be used. This value is based on a safety factor of at least 1.5 and generally corresponds to a lateral deflection of less than ½ inch. Passive resistance in the upper 12 inches should be neglected unless the area in front of the foundation is protected from disturbance by concrete or pavement. The friction coefficient and passive resistance may be used concurrently.

5.10.2.3 Subgrade Modulus

For preliminary design purposes, a modulus of subgrade reaction, K_{v1}, of 150 pounds per square inch per inch of deflection (for a 1 square-foot bearing plate) may be used for design of mat slabs. The modulus should be adjusted for the actual slab size using appropriate formulas or software.

5.10.2.4 Mat Slab Settlement

For foundations with design pressures equal to or less than the net allowable pressure provided above, and under static loading conditions, total post-construction foundation settlement is expected to be less than about ½ inch at the center of the mat foundations. Post-construction differential settlement of individual foundation elements is expected to be about one-half the total settlement.

These settlement estimates are based on the assumption that the foundation subgrade is properly prepared, and the foundations are designed and constructed in accordance with the recommendations presented in this report.

5.10.2.5 Mat Foundation Construction Considerations

Underground utilities that are 4 feet deep or shallower and that run parallel to shallow mat foundations generally should be located no closer than 2 feet horizontally away from the perimeter

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edges of the slab. Deeper utilities should be located above a 1H:1V (horizontal to vertical) slope projected downward from the bottom edges of the slab. Utility plans should be reviewed by Kleinfelder prior to trenching to evaluate conformance with this requirement.

Beneath exterior cast-in-place concrete mat foundations, we recommend the design include a base course of well-graded crushed aggregate base at least 6 inches thick. Aggregate base materials should meet current Caltrans specifications for Class 2 aggregate base. Under slabs that will be subject to vehicle loading, the aggregate base course thickness should be increased to a minimum of 6 inches. The base course should be compacted to at least 95 percent relative compaction at optimum moisture content. Thickened slab edges embedded to at least 18 inches below grade need not be underlain by the gravel base course.

5.11 DRILLED PIER FOUNDATIONS

Preliminary recommendations for design and construction of drilled pier foundations are presented in the following sections of this report. Kleinfelder should review the design to ensure compliance with the intent of the preliminary geotechnical conclusions and recommendations provided in this report. In addition, a final Geotechnical Investigation Report should be prepared that includes nearby subsurface soil data, as permitted, or borings and appropriate testing shall be performed to support the preparation of final plans and specifications for construction.

5.11.1 Axial Capacity

Axial pile capacity was developed based on Federal Highway Administration methods using the commercial computer software SHAFT, version 2017, produced by Ensoft, Inc. Static soil strength parameters are based on strength and soil properties measured during the field and laboratory testing phases of this investigation.

Axial loads on drilled piers should be supported by the frictional capacity of the pier. End bearing is not considered in the axial capacity due to strain incompatibility issues between skin friction and end bearing, settlement issues, and the potential for loose materials to exist at the bottoms of the pier holes during construction that cannot be effectively cleaned out. If additional axial capacity is required beyond what is provided in this report, Kleinfelder should be consulted to provide a portion of end bearing capacity and additional construction recommendations.

A curve illustrating the ultimate axial compressive capacity of a unit (1-foot) diameter straight-sided drilled pier installed from the existing grade under static conditions is shown on Figure 3a.

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Corresponding tabulated values are presented on Figure 3b. Capacities for drilled piers with diameters other than 1 foot may be obtained by multiplying the capacity for the 1-foot diameter pier by the actual pier diameter (in feet). For evaluation of allowable axial capacity under static conditions, we recommend a factor of safety of 3 be applied to the ultimate capacity (per the General Order 95 code). Note that the weight of the foundation need not be considered for evaluation of allowable axial capacity.

Ultimate tensile capacity may be obtained by multiplying the compressive capacity by a factor of 0.8 and adding the weight of the foundation. For allowable tension capacity under transient flood, wind or seismic conditions, a safety factor of at least 1.5 should be used. For allowable sustained tension, a safety factor of 3 should be used.

5.11.1.1 Estimated Settlement

Based on the methods outlined by FHWA Drilled Shaft Manual, Brown et al. (2010), total static settlement of each drilled pier should be on the order of 0.1 percent of the pier diameter for a drilled pier designed and constructed in accordance with the recommendations presented in this report. This value includes elastic compression of the pile under design loads. The majority of the settlement should occur during and shortly after application of the structure loads. We suggest allowing for about ¼ inch of settlement to accommodate potential long-term settlement, construction issues, and some soil variability across the site.

5.11.1.2 Axial Capacity Group Effects

The axial capacity of piers developed in accordance with the recommendations provided above applies to single, isolated piers. Consideration of group effects on axial capacity of drilled piers is usually not necessary for piers with center-to-center spacings of at least 3 effective diameters. For closer spacings the capacity of individual piers will be reduced. For these cases Kleinfelder should be consulted to evaluate axial capacity on a case-by-case basis. Note that group effects should also be considered where new foundations are constructed immediately adjacent to existing foundations.

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5.11.2 Lateral Response

5.11.2.1 LPILE Analysis Soil Parameters

Lateral capacity of drilled piers may be developed through analysis of pier response due to a range of design loads. Table 5-3 contains recommended input soil parameters for lateral response analysis of deep foundations using the LPILE computer program (by Ensoft, Inc., Version 2018. Program default values may be used for strain factor (E_{50}) and horizontal subgrade reaction (K).

Table 5-3
LPILE Geotechnical Parameters
Static Conditions

Depth (feet)	Model P-Y Curve	Effective Unit Weight (lb/ft^3)	Cohesion c (psf)	Internal Friction Angle, Φ (degrees)
0 to 30	Sand (Reese)	115	-	30

LPILE analyses determinations could not be performed at this time, as the loading of individual piles have not yet been established by the Burns & McDonnell. When loading is available, Kleinfelder can provide Lpile analysis for an additional fee.

5.11.3 Drilled Pier Construction Considerations

Successful completion of drilled pier foundations requires good construction procedures. Drilled pier excavations should be constructed by a skilled operator using techniques that allow the excavations to be completed, the reinforcing steel placed, and the concrete poured in a continuous manner to reduce the time that excavations remain open. Steel reinforcement and concrete should be placed on the same day of completion of each pier excavation. Additionally, drilled pier excavations should be scheduled to allow concrete in each pile to set over night before drilling adjacent holes that are closer than 4 diameters center-to-center.

The following considerations should be implemented during construction of drilled shaft foundations. We recommend the contractor follow the procedures for drilled pier construction contained in the Federal Highway Administration (FHWA) manual on drilled shaft construction (Brown et al., 2010).

Consistent with Chapter 17 of the 2016 CBC, drilled pier excavations should be inspected and approved by the geotechnical engineer prior to installation of reinforcement. The depths of all pier excavations should be checked immediately prior to concrete placement to verify excessive

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sloughing and/or caving has not reduced the required hole depth. This may be done with a weighted tape measure or similar measuring device.

As described above, loose sandy soils may be encountered during drilled pier construction. In addition, perched groundwater depending on local rainfall and runoff patterns may also be present at the time of construction. The contractor should be prepared to handle caving sandy soil and possibly of perched groundwater conditions during construction of drilled piers at the site.

The depth to regional groundwater is on the order of 70 feet bgs, therefore, it is unlikely that drilled shafts will encounter regional groundwater. If drilled shaft excavations extend below groundwater levels, the excavations should be cleaned such that less than about 1 inch of loose soil remains at the bottom of the drilled hole. Since the piers should be designed to derive their support in skin friction along the sides of the shafts, consideration could be given to over-drilling the shafts to accommodate any sloughing that may occur between drilling and concrete placement. It is recommended that a representative from Kleinfelder observe each drilled shaft excavation to verify soil and excavation conditions prior to placing steel reinforcement or concrete.

Steel reinforcement and concrete should be placed on the same day the drilled hole is completed to reduce the potential for caving and reduce the quantity of suspended soil particles that may settle to the bottom of the hole during wet-method construction. Excavation depths should be checked several times before concrete placement to ensure excessive sedimentation has not occurred. Concrete used for pier construction should be discharged vertically into the drilled hole to reduce aggregate segregation. Under no circumstances should concrete be allowed to free-fall against either the steel reinforcement or the sides of the excavation during shaft construction. Sufficient space should be provided in the pier reinforcement cage during fabrication to allow the insertion of a pump hose or tremie tube for concrete placement. The pier reinforcement cage should be installed, and the concrete pumped immediately after drilling is completed.

In order to develop the design skin friction values provided in the axial capacity figures, concrete used for drilled pier construction should have a slump ranging from 4 to 6 inches if placed in a dry shaft without temporary casing, and from 6 to 8 inches if temporary casing or slurry drilling methods are used. The concrete mix should be designed with appropriate admixtures and/or water/cement ratios to achieve these recommended slumps. Adding water to a conventional mix to achieve the recommended slump should not be allowed. For concrete mixes with slumps over 6 inches, vibration of the concrete during placement is generally not recommended as aggregate settlement may result in the lack of aggregate within the upper portion of the pile.

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If water or drilling fluids are present during concrete placement, concrete should be placed into the hole using tremie methods. Tremie concrete placement should be performed in strict accordance with ACI 304R. The tremie pipe should be rigid and remain below the surface of the in-place concrete at all times to maintain a seal between the water or slurry and fresh concrete. The upper concrete seal layer will likely become contaminated with excess water and soil as the concrete is placed and should be removed to expose uncontaminated concrete immediately following completion of concrete placement. It has been our experience that the concrete seal layer may be on the order of 3 to 5 feet thick but will depend on the pile diameter, amount of water seepage, and construction workmanship.

Loose sandy soils will likely be encountered during drilled pier construction. Use of slurry drilling methods will likely be needed to reduce the potential for caving in the drilled pier excavations. Use of slurry drilling methods normally requires experienced construction personnel to batch and mix the slurry, test the slurry for proper mixing, hydration, viscosity and other important properties, and to monitor slurry performance during drilling. If slurry drilling methods are used, we recommend use of a polymer slurry that meets Caltrans requirements for drilled shaft construction or bentonite-based slurry, mixed and used in accordance with the guidelines in the FHWA Drilled Shaft Manual (Brown et al., 2010). This guideline recommends bentonite slurry mixtures not be left in the hole for more than about 4 hours in order to avoid potential side friction losses that may be caused by excessive thickness of bentonite filter cake on the hole wall.

If caving conditions are encountered in a drilled pier excavation and there are no overhead clearance issues, temporary casing could be used to help mitigate this condition. If temporary steel casing is used, it should be removed from the hole as concrete is being placed. The bottom of the casing should be maintained below the top of the concrete during casing withdrawal and concrete placement operations. Casing should not be withdrawn until sufficient quantities of concrete have been placed into the excavation to balance the groundwater head outside the casing. Continuous vibration of the casing or other methods may be required to reduce the potential for voids occurring within the concrete mass during casing withdrawal. Corrugated metal pipe should not be used as casing. In no case should casing material be left in the excavation after concrete has been placed without the approval of the project structural and geotechnical engineers. Concrete should be in direct contact with the surrounding soil or the design parameters and recommendations in the geotechnical report are not valid.

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5.12 SOIL CORROSION

Based on historical information and past experience in the area, Kleinfelder anticipates that the potential for the soils at the site to be corrosive to concrete elements and buried ferrous metal piping, cast iron pipes, or other objects made of these materials is negligible. We recommend that a corrosion engineer be consulted to recommend appropriate protective measures.

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6 ADDITIONAL SERVICES

6.1 PREPARATION OF FINAL GEOTECHNICAL INVESTIGATION REPORT

The preliminary recommendations herein are intended to support planning and preliminary design of the new expansion planned at the Lodi Electric Industrial Substation in Lodi, California. Kleinfelder should conduct a general review of the preliminary plans and specifications to evaluate that the earthwork and foundation recommendations presented in this report have been properly interpreted and implemented during design. In addition, a final Geotechnical Investigation Report should be prepared that includes nearby subsurface soil data, as permitted, or borings and appropriate testing shall be performed to support the preparation of final plans and specifications for construction.

6.2 PLANS AND SPECIFICATIONS REVIEW

Kleinfelder should conduct a general review of the final plans and specifications to evaluate that the earthwork and foundation recommendations have been properly interpreted and implemented during design. In the event Kleinfelder is not retained to perform this recommended review, no responsibility for misinterpretation of the recommendations by Kleinfelder is accepted.

6.3 CONSTRUCTION OBSERVATION AND TESTING

It is recommended that all earthwork and foundation construction be monitored by a representative from Kleinfelder, including site preparation, placement of all engineered fill and trench backfill, construction of slab and all foundation excavations. The purpose of these services is to observe the soil conditions encountered during construction, evaluate the applicability of the recommendations presented in this report to the soil conditions encountered, and recommend appropriate changes in design or construction procedures if conditions differ from those described herein.

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7 LIMITATIONS

This report presents information for planning and preliminary design of the new expansion, planned at the Lodi Electric Industrial Substation in Lodi, California. Preliminary recommendations contained in this report are based on historical information, experience in the area, geologic interpretation based on published articles and geotechnical data, and our present knowledge of the proposed construction.

It is possible that soil conditions could vary beyond the points explored. If the scope of the proposed construction, including the proposed location, changes from that described in this report, we should be notified immediately in order that a review may be made, and any supplemental recommendations provided.

We have prepared this report in accordance with the generally accepted geotechnical engineering practice as it exists in the site area at the time of our study. No warranty expressed or implied is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

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FIGURES

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LEGEND

PROPOSED EXPANSION

NOTE:
BASE MAPPING AND VICINITY MAP CREATED FROM LAYERS COMPILED BY ESRI PRODUCTS AND 2019 MICROSOFT CORPORATION.
COORDINATE SYSTEM: NAD 1983 2011 STATEPLANE CALIFORNIA III FIPS 0403



VICINITY MAP NOT TO SCALE



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1 " = 200 SCALE IN FEET

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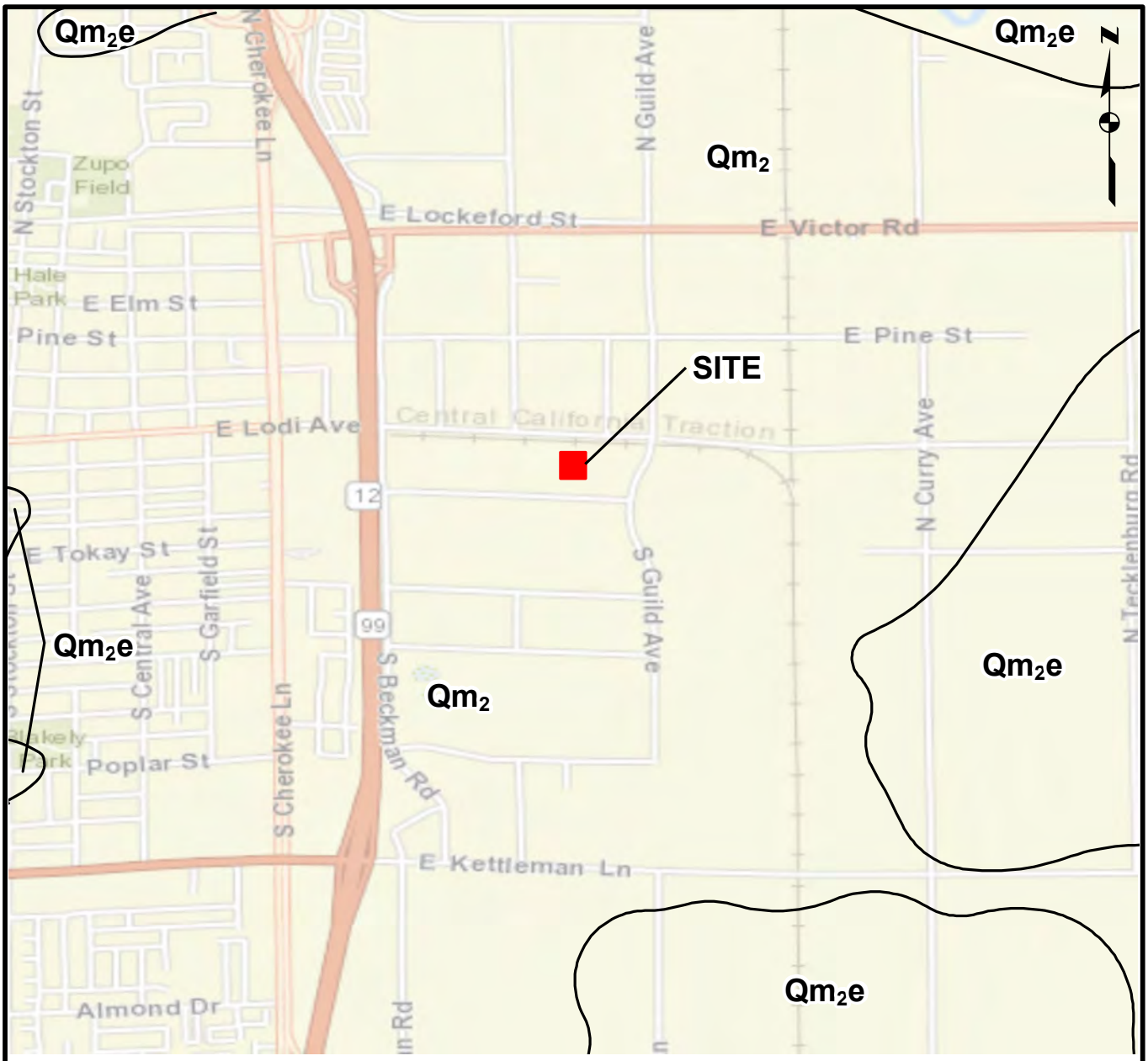
DRAWN BY:	JSala
CHECKED BY:	A. Lin
DATE:	12-09-2019

SITE PLAN AND VICINITY MAP

Lodi Electric Industrial Substation Expansion
1215 Thurman Street
Lodi, California

FIGURE 1



0 1,000 2,000 4,000 Feet

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LEGEND

GEOLOGY

Geologic contact

Qm_2 - Riverbank formation, upper member, undivided

Qm_2e - Riverbank formation, upper member, eolian dune sand deposits

Source:
Marchand, D.E., and Barstow, J.A., 1979, "Preliminary geologic map of Cenezoic deposits of the Bellota quadrangle, California: U.S. Geological Survey, Open-File Report OF 79-664", scale 1:62,500

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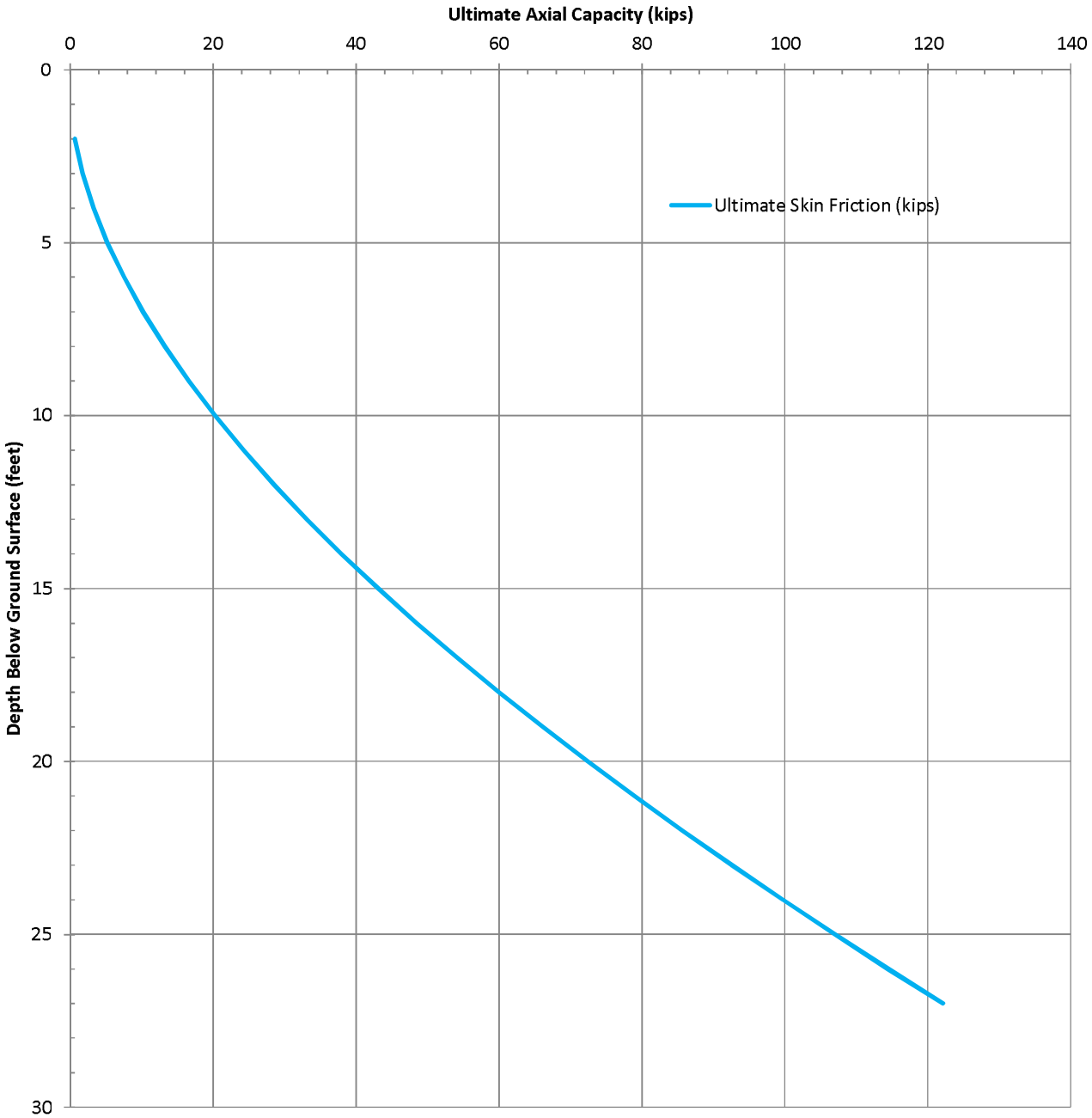
PROJECT NO	20202783
DRAWN:	12/26/2019
DRAWN BY:	JP
CHECKED BY	AL
FILE NAME:	LodiElec_Geo.MXD

GEOLOGY MAP

LODI ELECTRIC INDUSTRIAL SUBSTATION EXPANSION
1215 THURMAN STREET
LODI, CALIFORNIA

FIGURE
2

\\azrgisstorp01\GIS_Projects\Client\PGE\20202783_LodiElectric\MXD\LodiElec_Geo.mxd



Notes:

1. Axial capacities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

LODI ELECTRIC INDUSTRIAL SUBSTATION EXPANSION

1215 EAST THURMAN STREET

LODI, CA

FIGURE

3A

Depth (ft)	Ultimate Axial Capacity (Kips)	Depth (ft)	Ultimate Axial Capacity (Kips)
2	0.7		48.5
3	1.7	16	54.1
4	3.3	17	60.0
5	5.2	18	66.1
6	7.5	19	72.4
7	10.2	20	78.9
8	13.2	21	85.7
9	16.6	22	92.6
10	20.3	23	99.7
11	24.3	24	107.0
12	28.6	25	114.5
13	33.1	26	122.1
14	38.0	27	

Notes:

1. Axial capcities of drilled piers with diameters other than one foot may be obtained by multiplying the unit capacity by the diameter of the pier (in feet).
2. Ultimate tensile capacity may be obtained by multiplying the ultimate compressive capacity by a factor of 0.8.
3. The curve represents ultimate axial capacity of a straight-sided drilled pier. See text discussion for factor of safety and group effects.

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PROJECT NO.:	20202783.001A
DRAWN BY:	AL
CHECKED BY:	
DATE:	12/10/2019
REVISED:	

ULTIMATE AXIAL CAPACITY TABLE
UNIT DIAMETER (1-FOOT)
DRILLED PIER
STATIC CONDITION

LODI ELECTRIC INDUSTRIAL SUBSTATION EXPANSION

1215 EAST THURMAN STREET

LODI, CA

FIGURE

3B

APPENDIX A

GBA INFORMATION SHEET

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Important Information about This

Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled*. No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

You Need to Inform Your Geotechnical Engineer about Change

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

This Report May Not Be Reliable

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be*, and, in general, *if you are the least bit uncertain* about the continued reliability of this report, contact your geotechnical engineer before applying it. A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only*. To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely*. Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old.*

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, ***proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration.*** Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. ***Geotechnical engineers are not building-envelope or mold specialists.***

GEOPROFESSIONAL BUSINESS ASSOCIATION

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e-mail: info@geoprofessional.org www.geoprofessional.org

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Appendix F4
Paleontological Resources Impact Evaluation Report

Paleontological Resources Impact Evaluation

Date:	November 17, 2022
Project name:	Northern San Joaquin 230 kV Transmission
Attention:	Starla Lane
Client:	Pacific Gas and Electric Company
Prepared by:	MariaElena Conserva/Earthview Science
Copies to:	Colleen Taylor/Jacobs, Erin Rice/PG&E

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1. Summary

This Paleontological Resources Impact Evaluation Report was completed to assess potential paleontological impacts associated with the Northern San Joaquin 230 kilovolt (kV) Transmission Project (project) in San Joaquin County, California, and to assist Pacific Gas and Electric Company (PG&E) in complying with laws, ordinances, regulations, and standards pertaining to paleontological resources. The City of Lodi and its Lodi Electric Utility (LEU) also will modify and construct connecting electric infrastructure as part of the project.

This assessment was conducted according to procedures laid out in PG&E Paleontological Resources Standards and Procedures (PG&E 2015) and includes review of geologic maps, institutional records, scientific literature, aerial imagery, and project plans.

This assessment finds that the study area (at least 0.5 mile beyond the extent of the potential transmission line route) has paleontological sensitivity ranging from low to high (Bureau of Land Management Potential Fossil Yield Classification [PFYC] System Classes 2 to 4). However, all potential PG&E transmission alignment routes and connecting PG&E and LEU station end points would have, at most, a moderate likelihood of impacting scientifically significant vertebrate fossils during project construction. Environmental protection measures (EPMs) are recommended for excavations greater than 3 feet below ground surface (bgs) in previously undisturbed sediment and worker environmental awareness training should cover paleontological resources.

2. Project Description

This project entails constructing a new 230 kV transmission line between an existing PG&E transmission line into the City of Lodi (to LEU facilities) in San Joaquin County, California, extending approximately 8 to 11 miles (refer to Attachment 1). The PG&E transmission line would consist of tubular steel poles (TSPs). The western part of the project also would include construction of a new PG&E Thurman Switching Station and a new LEU Guild Substation adjacent to the existing LEU Industrial Substation, which will be modified within the City of Lodi. Ancillary infrastructure modification and construction by PG&E and by LEU will occur within the City of Lodi. Three existing PG&E 60 kV lines currently connecting into LEU Industrial Substation will be reconfigured within their existing alignments after the new 230 kV transmission line is in service. The existing PG&E Lockeford Substation will be expanded on existing substation property in the central part of the new PG&E 230 kV alignment (refer to Attachment 1).

2.1 Ground-Disturbing Activity

General ground-disturbing work associated with the project would include the following types of activity:

- Some grading may be required to level access roads, work areas, and the new, modified, or expanded substation and switching station locations.

- PG&E TSP installation would require the excavation of approximately 6- to 9-foot-diameter shafts that are approximately 18 to 30-feet deep. Poles would be spaced approximately 740 to 800 feet apart for a total of approximately 73 poles.
- Temporary guard structures would be installed by PG&E where the new lines cross existing infrastructure such as roads (approximately 35 structures) or other electrical lines (approximately 22 crossings). They would require excavation of shafts from approximately 2 to 3 feet in diameter and up to approximately 7 feet in depth.
- Excavation required to install foundations for new equipment at the two LEU substations is not expected to exceed an approximate 4-foot diameter and an approximate 20-foot drilled pier foundation depth. Foundation excavations at PG&E Lockeford Substation and PG&E Thurman Switching Station are expected to be up to approximately 28 feet deep with an approximate 3.5-foot-diameter excavation. Additionally, approximately four grounding wells at the new PG&E Thurman Switching Station are expected to be installed at a depth of approximately 100 feet. Grounding rods typically have an approximately 1- to 1.5-inch diameter and a drill rig would be used to excavate a narrow shaft to install the rod within the well.
- The typical method for shaft excavation would be auguring.

3. Regulatory Setting

This section summarizes the federal, state, and local regulatory context, as well as professional standards that apply to paleontological resources in the project vicinity.

3.1 Federal

The following federal laws protect paleontological resources on federal lands as well as projects funded or overseen by federal agencies.

Antiquities Act of 1906

The Antiquities Act of 1906 (Title 16 United States Code Sections 431–433 [16 USC § 431–433]) was enacted with the primary goal of protecting cultural resources in the U.S. This act explicitly prohibits appropriation, excavation, injury, and destruction of any historic or prehistoric ruin or monument, or any "object of antiquity" located on lands owned or controlled by the federal government, without prior permission of the secretary of the federal department that has jurisdiction over the site. The act also establishes criminal penalties, including fines and imprisonment, for these acts. The Antiquities Act contains a requirement for studies by qualified experts in the subject matter, and contains precise stipulations regarding the management/curation of collected materials. Although the Antiquities Act itself and its implementing regulation (Title 43 Code of Federal Regulations Section 3 [43 CFR § 3]) do not specifically mention paleontological resources, "objects of antiquity" have been interpreted to include paleontological resources by the National Park Service (NPS), Bureau of Land Management (BLM), U.S. Forest Service (USFS), and other federal agencies.

National Environmental Policy Act

The National Environmental Policy Act (NEPA) of 1966, as amended (Pub. L. 91-190, 42 U.S.C. 4321–4347, January 1, 1970, as amended by Pub. L. 94-52, July 3, 1975, Pub. L. 94-83, August 9, 1975, and Pub. L. 97-258 § 4(b), September 13, 1982), recognizes the continuing responsibility of the federal government to "preserve important historic, cultural, and natural aspects of our national heritage…" (Sec. 101 [42 USC § 4321]) (#382). This can be interpreted to refer to paleontological as well as cultural resources. When not on federal lands, requiring paleontological analysis under NEPA is at the discretion of the lead federal agency.

Paleontological Resources Preservation, Omnibus Public Lands Act

The Omnibus Public Lands Act, (Public Law 111-011, Title VI, Subtitle D [OPLA-PRP 2009]) is legislation directing the Secretaries (of the Interior and Agriculture) to manage and protect paleontological resources on federal land using scientific principles and expertise. OPLA-PRP incorporates most of the recommendations of the report of the Secretary of the Interior entitled Assessment of Fossil Management on Federal and Indian Lands (2000) to formulate a consistent paleontological resources management framework. In passing the OPLA-PRP, Congress officially recognized the scientific importance of paleontological resources on some federal lands by declaring that fossils from these lands are federal property that must be preserved and protected. The OPLA-PRP codifies existing policies of the BLM, NPS, USFS, Bureau of Reclamation (BOR), and U.S. Fish and Wildlife Service (USFWS), and provides the following:

- Uniform criminal and civil penalties for illegal sale and transport, and theft and vandalism of fossils from federal lands
- Uniform minimum requirements for paleontological resource-use permit issuance (terms, conditions, and qualifications of applicants)
- Uniform definitions for "paleontological resources" and "casual collecting"
- Uniform requirements for curation of federal fossils in approved repositories

There are federal legislative protections for scientifically significant fossils for projects that take place on federal lands (with certain exceptions such as the Department of Defense). If any portion of the project occurs on federally managed lands (for instance, BLM lands), federal protections for paleontological resources on those lands apply under NEPA, OPLA_PRP, and the Federal Land Policy and Management Act (FLPMA) of 1976.

3.2 State

California Environmental Quality Act

The California Environmental Quality Act (CEQA) encourages the protection of all aspects of the environment by requiring state and local agencies to prepare multidisciplinary analyses of the environmental impacts of a proposed project, and to make decisions based on the findings of those analyses.

Treatment of paleontological resources under CEQA generally is conducted according to guidance from the Society for Vertebrate Paleontology (SVP) or other agencies (BLM and USFS), and typically includes identification, assessment, and development of mitigation measures for potential impacts to significant or unique resources.

Appendix G of the CEQA Guidelines provides guidance relative to significant impacts on paleontological resources, which states that a project normally will result in a significant impact on the environment if it will disrupt or adversely affect a paleontological resource or site or unique geologic feature, except as part of a scientific study.

California Public Resources Code

The State of California Public Resources Code (Chapter 1.7), Sections 5097.5 and 30244, includes additional state-level requirements for the assessment and management of paleontological resources. These statutes require reasonable mitigation of adverse impacts to paleontological resources resulting from development on state lands, define the removal of paleontological sites or features from state lands as a misdemeanor, and prohibit the removal of any paleontological site or feature from state land without permission of the applicable jurisdictional agency. Section 30244 requires reasonable mitigation for impacts on paleontological resources that occur as a result of development on public lands. Further,

California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources.

3.3 Local

City and county general plans may include objectives, policies, and actions for the identification and protection of paleontological resources. However, because the California Public Utilities Commission (CPUC) has exclusive jurisdiction over utility project siting, design, and construction, PG&E is not subject to local discretionary regulations. A description of local policies and regulations for paleontological resources is provided for informational purposes and to assist with CEQA review where applicable.

The City of Lodi is a local agency and must comply with its own local plans and policies for LEU's portion of the project.

General plans of the City of Lodi and San Joaquin County were reviewed for provisions relevant to paleontological resources (City of Lodi 2010; San Joaquin County 2016). No provisions were found for San Joaquin County. The only provision relevant to paleontological resources in the City of Lodi General Plan is the following:

Policy C-P18

In the event that archaeological/paleontological resources are discovered during site excavation, the City shall require that grading and construction work on the project site be suspended until the significance of the features can be determined by a qualified archaeologist/paleontologist. The City will require that a qualified archaeologist/paleontologist make recommendations for measures necessary to protect any site determined to contain or constitute an historical resource, a unique archaeological resource, or a unique paleontological resource or to undertake data recovery, excavation, analysis, and curation of archaeological/paleontologist materials. City staff shall consider such recommendations and implement them where they are feasible in light of project design as previously approved by the City.

3.4 Professional Standards

SVP is an organization of professional and academic paleontologists that established standard guidelines (1995, 1996, 2010) for practices regarding paleontological resource assessments; monitoring and mitigation; data and fossil recovery; sampling procedures, specimen preparation, identification, and analysis; and museum curation. However, these guidelines were developed at an institutional level that is dedicated to scholarship and education rather than resource management or regulatory compliance.

In 2014, a white paper was published that includes best mitigation practices for paleontological studies. The mitigation practices outlined in this paper have a consensus among professional paleontologists regarding field methods, reporting standards, qualifications, and other procedures for conducting paleontological resource management activities (Murphey et al. 2014). PG&E has incorporated many of these findings into its guidance and assumes that professional paleontologists follow standards outlined by SVP, BLM, and other professional organizations except where they conflict with PG&E guidelines.

4. Methods

Existing data were analyzed according to PG&E Paleontological Resources Standards and Procedures (PG&E 2015). The analysis included (1) geologic map review, (2) scientific literature review, (3) institutional paleontological records search, (4) aerial imagery review, and (5) available geotechnical reports. Geological maps were obtained at the smallest unit available (in this case, 1:62,500 scale) (Marchand & Atwater 1979; Marchand & Bartow 1979). Geological and paleontological literature relevant to the northern San Joaquin Valley was reviewed for paleontological finds. Databases from the University of California, Museum of Paleontology (UCMP) and Paleobiology were searched for paleontological records within 1 mile of the project corridor (UCMP 2022; Paleobiology Database 2022) (refer to

Attachment 3). Google Earth aerial imagery also was reviewed for physiographic context and land use of the project site and vicinity. The following geotechnical reports were reviewed:

- Geotechnical Investigation Report for PG&E Lockeford Substation (Kleinfelder 2019a)
- Geotechnical Investigation Report for PG&E Thurman Switching Station (Kleinfelder 2019b)
- Preliminary Subsurface Information for the Electric Industrial Substation Expansion, Lodi, California (Burns and McDonnell 2020)

A study area was established for this evaluation that included the maximum project footprint plus a half-mile buffer beyond the project (Attachment 1).

5. Results

5.1 Geologic Setting

The study area extends approximately 9 miles from the east side of the City of Lodi across unincorporated San Joaquin County farmland. This area lies within the Great Valley physiographic province of California (also known as the Central Valley), a relatively flat alluvial plain approximately 400 miles long and 50 miles wide. The Central Valley is a structural trough or basin in which sediments have accumulated since the Jurassic Period (about 160 million years ago). The basin filled with thousands of feet of marine sediment up to the early Miocene Period (approximately 20 million years ago). After that, a change in the motion between the Pacific and North American plates resulted in the gradual uplift of the Coast Ranges and the eventual isolation of the basin from the ocean. Subsequently, sediments were derived from the neighboring Coast Ranges and the Sierra Nevada. By the late Pliocene Epoch (2 to 3 million years ago), subaerial depositional conditions prevailed: Sierra Nevada derived sediments were deposited on the east side of the basin, and Coast Range-derived sediments were deposited on the west side of the basin. Because of the greater size and elevation of the Sierra Nevada relative to the Coast Ranges, Sierra alluvial fans are vastly larger than those of the Coast Ranges and therefore tend to dominate Central Valley geology.

The study area is within the San Joaquin Valley (the southern half of the Central Valley), 1 mile south of the Mokelumne River, a major waterway that flows from the central Sierra Nevada into the Sacramento-San Joaquin River Delta. Bear Creek and Paddy Creek cross the project alignment. The study area is mostly farmland dedicated to row crops, except for the western end, which is within an industrial zone of the City of Lodi. As discussed in the following sections, study area geologic units date to the Holocene, Pleistocene, and Pliocene (Figure 1).

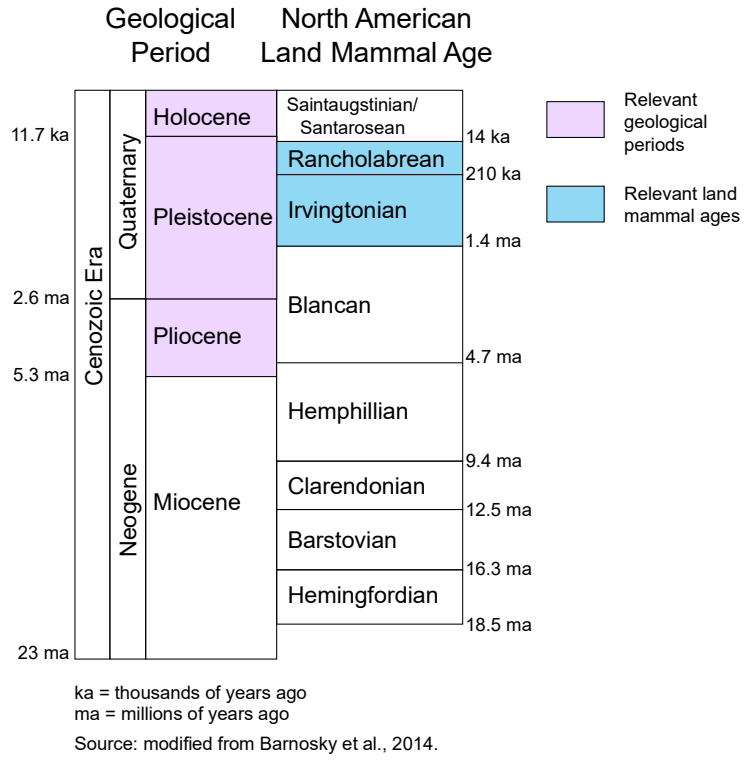

Figure 1. Geologic Periods and Land Mammal Ages Relevant to this Assessment

Geologic Units

Geologic units for the study area are presented in Attachment 1 (Marchand & Atwater 1979; Marchand & Bartow 1979; Dawson 2009). Geologic units are described in the following section from youngest to oldest.

- Alluvium (Qha) – Holocene age (11,700 years ago to present) poorly to moderately sorted sand, gravel, and silt.
- Alluvium/Colluvium (Qu) – Unnamed late Pleistocene age (approximately 2 million years ago to 11,700 years ago) or Holocene age alluvium and colluvium consisting of flat, relatively undissected fan, terrace, basin deposits, and small active streams.
- Modesto Formation – Late Pleistocene arkosic alluvium sand with minor gravel and silt, forming Mokelumne River alluvial fans, low terraces, and high floodplains. This formation includes the following units:
  - Qm2 – upper unit chiefly made of sand, becoming finer-grained toward the fan toe, and is probably glacial outwash.
  - Qm2e – upper unit made of arkosic sand that formed low dunes on the Mokelumne River fan and in the Delta. Although it is not well sorted, this unit is probably eolian.
  - Qm2f – lower unit made of foothill-derived alluvial silt, clay, and minor sand following tributaries across lower fans. It consists of abundant volcanic detritus.
  - Qm1 – lower unit made of arkosic alluvium forming the Mokelumne River alluvial fan. It is probably glacial outwash.
- Riverbank Formation – Middle to late Pleistocene arkosic alluvium sand with silt, forming terraces and alluvial fans along the Mokelumne River. Upper to lower units are as follows:

  - Qr3 – upper unit consisting of arkosic alluvium forming the Mokelumne River alluvial fan. It is primarily sand and probably glacial outwash.
  - Qr3f – upper unit consisting of foothill-derived alluvial sand and silt. It contains abundant volcanic detritus.
  - Qr2 – middle unit consisting of arkosic alluvium from the middle Pleistocene period forming Mokelumne River terraces and alluvial fan. It is chiefly sand and probably glacial outwash.
  - Qr2f – lower unit consisting of foothill-derived alluvial sand and silt. It contains abundant volcanic detritus.
- Turlock Lake Formation (Qt1) – Early to middle Pleistocene period arkosic alluvium, including sand with some silt and minor gravel (Dawson 2009).
- Laguna Formation (Tl) – Pliocene period (approximately 5 to 2.6 million years ago) cobble gravel, sand, and minor silt of mixed metamorphic, granitic, and volcanic sources.

5.2 Literature and Records Search Results

Institutional records searches and scientific literature review were performed for the study area and surrounding areas (UCMP 2022; Paleobiology Database 2022; Jefferson 1991) (refer to Attachment 3). The study area includes the proposed alignment plus a 0.5-mile buffer on each side. No records of fossils were found within 1 mile of the study area. However, because the study area is largely undeveloped, adjacent areas with similar geology were examined. The results are presented by geologic formation.

Pleistocene to Holocene geologic formations represent the major Pleistocene formations of the eastern San Joaquin Valley from youngest to oldest: Modesto Formation, Riverbank Formation, and Turlock Lake Formation. During the Pleistocene, also known as the Ice Age, the Central Valley teemed with animals. Late Ice Age fauna is known as the Rancholabrean Land Mammal stage. This group includes herbivores such as mammoth, mastodon, camels, bison, llamas, elk, and horses, as well as predators such as the short-faced bear, saber-tooth cat, scimitar cat, dire wolf, and California lion. Middle and early Ice Age fauna is known as the Irvingtonian Land Mammal stage, which includes mammoths, mastodons, and other members of the elephant family, horses, bone-crushing dogs, hyenas, wolves, saber-toothed cats, and bears. Fossils representing both of these faunas have been found in the San Joaquin Valley.

Alluvium/Colluvium (Qu) represents unnamed Holocene and possibly latest Pleistocene sediment. This formation is widespread across the state of California. It consists of unconsolidated sediment that generally is considered too young to produce significant fossils. Occasionally, significant vertebrate fossils are found in this sediment because it is older than previously thought or because older layers lie close to the surface (Maguire & Holroyd 2016). For this assessment, no fossil localities were found within this type of sediment within 9 miles of the study area.

Modesto Formation and subunits (Qm2, Qm2e, Qm2f, Qm1) are the youngest Pleistocene geologic units in the study area. They are thought to date to the late Ice Age, or the Rancholabrean Land Mammal Age. Modesto Formation sediments are fluvial and, under some circumstances, have been fossiliferous. Fossils are found occasionally in sediment attributed to the Modesto Formation, primarily along major rivers and first-order streams.

Paleontological records search and literature review results for the Modesto Formation fossils closest to the project corridor are listed in Table 1. The nearest fossil localities are in Stockton, approximately 9 to 11 miles from the project, including Lincoln Village, State Route (SR) 99, and Mormon Slough. Other fossil localities are more than 25 miles away.

Table 1. Modesto Formation Fossil Localities within 75 miles of Project

Approx. Distance to Project (miles)	Locality Name and Location	Locality Number	Common Name	Taxon	Age	Geologic Formation	Reference
9	Lincoln Village, Stockton	V4822	horse	Equus	Rancholabrean	Likely Modesto	UCMP 2022
11	South Stockton Six-Lane Project 1, 2, 3, SR 99/Stockton	V2016003, V2016004, V2016005	not listed	not listed	Rancholabrean	Modesto	UCMP 2022
11	Mormon Slough, Stockton	V5107	horse, mammoth	*Equus, Mammuthus*	Rancholabrean	Likely Modesto	UCMP 2022
> 25	Garber Farm, Stanislaus County	V72007	ground sloth, mammoth	*Megalonyx jeffersoni, Mammuthus columbi*	Pleistocene/ Rancholabrean	Modesto	UCMP 2022
> 25	McManis Ranch, Stanislaus County	V72186	bison	*Bison latifrons*	Pleistocene/ Rancholabrean	Modesto	UCMP 2022
45	Walnut Energy Center, Turlock	V99464	camel, bison	*Camelops, Bison*	Pleistocene/ Rancholabrean	Modesto	UCMP 2022
75	Sutter Energy Center, Sutter County	PB1018	plants	not listed	Pleistocene	Modesto	UCMP 2022
75	SR 99 Arboleda Drive, Merced	Not listed	1667 specimen recovered	1667 specimen recovered	Pleistocene/ Rancholabrean	Modesto/ Riverbank	Cogstone 2013

Riverbank Formation and subunits (Qr2, Qr2f, Qr3, Qr3f) date from about 450,000 years ago to 150,000 years ago, covering the late Irvingtonian Land Mammal Age as well as the early and mid Rancholabrean Land Mammal Age (Dundas et al. 1996). The Riverbank Formation has yielded early Rancholabrean and late Irvingtonian mammalian fossils, including the extinct North American camel (Camelops), mammoth (Mammuthus), ground sloth (Megalonyx), and bison (Bison). Some fossil localities attributed to the Modesto Formation have been revealed under scrutiny actually to be from the upper Riverbank Formation. The fossiliferous Riverbank Formation is a compound soil with a strongly gleyed (green-gray-blue wetland soil) horizon with a discontinuous hardpan composed of caliche (calcium carbonate cementing the fine-grained alluvium). Similarly, fossil localities attributed to the Riverbank Formation have sometimes been found to be part of the Turlock Lake Formation (Dundas & Chatters 2013). However, no fossil localities in the Riverbank Formation were found for this assessment within 7 miles of the study area.

Paleontological records search and literature review results for the Riverbank Formation fossils closest to the project are listed in Table 2.

Table 2. Riverbank Formation Fossil Localities within 50 Miles of Project

Approx. Distance to Project (miles)	Locality Name and Location	Locality Number	Common Name	Taxon	Geological Formation	Reference
12	Herald, Sacramento County	V3524	horse	*Equus*	Riverbank	Fisk 2006
25	Erhardt Avenue, City of Sacramento	V74086	mammoth	*Mammuthus columbi*	Riverbank	UCMP 2022
25	Elk Grove Gravel Pit, Sacramento County	not available	horse	*Equus*	Riverbank	Piper et al. 1939
25	Cometa Road, San Joaquin County	V5039	horse	*Equus*	Likely Riverbank	UCMP 2022
>25	Brant Ranch, Stanislaus County	V72008	sloth	*Glossotherium harlani*	Riverbank	UCMP 2022
30	Davis Gravel Pit, City of Sacramento	V6747	camel, horse, mammoth/ mastodon	*Camelops, Mammuthus, Equus*	Riverbank	Hansen and Begg 1970
30	Teichert Gravel Pit, City of Sacramento	V69129	various vertebrate	114 specimen	Riverbank	UCMP 2022
30	Teichert Gravel Pit, City of Sacramento	~ 30	camel, sloth	*Camelops hesternus, Glossotherium*	Riverbank	UCMP 2022
30	Perkins Gravel Pit, City of Sacramento	not available	camel, horse, mammoth/ mastodon	*Camelops, Mammuthus, Equus*	Riverbank	Fisk 2006
35	Chicken Ranch Slough I, City of Sacramento	V67224	mammoth	*Mammuthus columbi*	Riverbank	UCMP 2022
35	Chicken Ranch Slough II, City of Sacramento	V68141	horse	*Equus*	Riverbank	UCMP 2022
40	Arco (Sleep Train) Arena, City of Sacramento	not available	various vertebrate and plant	at least 12 taxa	Riverbank	Hilton et al. 2000

Turlock Lake Formation (Qt1) is an early- to mid-Pleistocene geologic unit corresponding to the Irvingtonian Land Mammal Age, a period not well represented in the fossil record. Since 1993, thousands of vertebrate fossils have been found in the Turlock Lake Formation, approximately 20 miles southeast of the study area at Fairmead Landfill in the City of Chowchilla (Dundas & Chatters 2013). Fossils from more than 72 taxa were found. The Madera County Fossil Discovery Center museum was built to house them. It has been reported that fossils have been discovered periodically by heavy equipment operators since the opening of the landfill (Dundas & Chatters 2013).

Fairmead Landfill fossils were found in the upper unit of the Turlock Lake Formation in a large deposit of greenish clay a half-meter thick. The discovery occurred 40 feet bgs, under approximately 30 feet of Riverbank Formation sediment, including the middle and upper unit. The fossils were found in the first 10 feet of Turlock Lake Formation sediment.

Outside of the Fairmead Landfill discovery, fossil discoveries in the Turlock Lake Formation seem to be limited. Although there is evidence that some Turlock Lake Formation fossils, including the Fairmead Landfill site, are mistakenly attributed to Riverbank Formation in UCMP (Dundas et al. 1996; Dundas & Chatters 2013), no other vertebrate fossil localities in the Turlock Lake Formation were found for this assessment. Several plant fossil localities are attributed to Turlock Lake Formation, but all are in eastern Fresno County, approximately 120 miles from the study area (UCMP 2022).

Laguna Formation is a Pliocene period formation dating from 5 to 2.6 million years ago, described in detail in Marchand and Allawart (1981). No fossil localities are attributed to Laguna Formation in UCMP (UCMP 2022). For this assessment, no other evidence was found that the Laguna Formation is fossiliferous.

6. Paleontological Significance and Sensitivity

PG&E uses definitions of significance and sensitivity based on the FLPMA as well as standards developed by agencies and professional societies, including the BLM, SVP, and the California Department of Transportation (PG&E 2015).

6.1 Definition of Significance and Significance Criteria

Significance refers to the scientific importance of fossils. PG&E (2015) considers an individual fossil specimen to be significant if it is identifiable and if it meets one of the following criteria:

- A type specimen (the individual from which a species or subspecies has been described)
- A member of a rare species
- A species that is part of a diverse assemblage (for instance, a site where more than one fossil has been discovered) and from which important information regarding life histories of individuals can be drawn
- An element different from, or more complete than, those now available for its species
- A complete specimen

More specifically, PG&E uses the following research criteria to determine whether a fossil is significant:

- Taxonomy – Fossils that represent rare or unknown taxa, such as defining a new species
- Evolution – Fossils that represent important stages in evolutionary relationships, to fill gaps or enhance under-represented intervals in the stratigraphic record
- Biostratigraphy – Fossils that are important for determining relative geologic age, or for use in stratigraphic correlation
- Paleoecology – Fossils that are important for reconstructing ancient community structure and ancient sedimentary environment
- Taphonomy – Fossils that are exceptionally well or uniquely preserved

6.2 Sensitivity Criteria

PG&E uses the PFYC developed by BLM to assess paleontological sensitivity (Table 3). In this system, geologic units are classified based on the relative abundance of scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts. It is important to note that although significant localities may occasionally occur in a geologic unit, a few widely scattered important fossils or localities do not necessarily indicate a higher class. The relative abundance of significant localities is the primary determinant for the class assignment.

Table 3. Paleontological Sensitivity of Geologic Units Using BLM Potential Fossil Yield Classification System

Class 1 – Very Low
Geologic units not likely to contain fossil remains that include: ▪ Igneous or metamorphic units ▪ Units precambrian in age or older ▪ Artificial or imported fill material
Class 2 – Low
Geologic units not likely to contain vertebrate or scientifically significant nonvertebrate fossils that include: ▪ Vertebrate or significant invertebrate or plant fossils not present or very rare ▪ Geologic units younger than 10,000 years before present ▪ Recent aeolian deposits ▪ Sediments that exhibit significant physical and chemical changes
Class 3 – Moderate or Unknown
Fossiliferous sedimentary units in which fossil content varies in significance, abundance, and occurrence, or are of unknown fossil potential. These units have the following subclassifications: ▪ Class 3a – Moderate potential: relatively low potential to impact significant fossils but high potential to impact common fossils. They generally exhibit the following characteristics: - Marine in origin with sporadic occurrences of vertebrate fossils - Vertebrate and scientifically significant invertebrate or plant fossils occur intermittently, with low predictability ▪ Class 3b – Unknown potential: sedimentary unit is poorly studied or documented but conditions suggest significant fossils could be present.
Class 4 – High
Geologic units that have a high occurrence of significant fossils that vary in occurrence and predictability. These units have the following subclassifications: ▪ Class 4a – Unit is exposed with little soil or vegetative cover or has extensive outcrop areas with exposed bedrock ▪ Class 4b – Unit is buried by extensive soil or vegetation cover. Exposed outcrops are less than contiguous 2 acres.
Class 5 – Very High
Geologic units that consistently produce scientifically significant fossils. Fossils can be reasonably expected to occur within the impacted area.
Source: Adapted from PG&E 2015.

6.3 Determination of Sensitivity for Geologic Units within Study Area

PFYC criteria from Table 3 were applied to the geologic units in the study area as summarized in Table 4. These sensitivity ratings incorporate the geologic unit description in Section 5.1 and literature and records search in Section 5.2. The ratings also incorporate the extent of proposed earth-moving activities discussed in Section 2.

Table 4. Paleontological Sensitivity of Geologic Units in Study Area

Geologic Unit	Paleontological Sensitivity – PFYC Category	Basis for Sensitivity Rating
Qha – Alluvium (Holocene)	2: low	Holocene age sediment generally is considered too young to contain scientifically significant fossils.
Qu – Alluvium/Colluvium (Holocene/ Pleistocene)	2: low	Qu sediment represents Holocene and latest Pleistocene periods. Significant fossils are occasionally found in Qu sediment. However, this geologic unit is relatively widespread at the surface in the San Joaquin Valley and no fossil localities attributed to this unit were found within 7 miles of the study area. Qu is considered to be of low sensitivity.
Qm_2 – Modesto Formation (Pleistocene)	2 to 3: low to moderate	Modesto Formation is the uppermost Pleistocene geologic unit in the study area. Significant fossils are found only occasionally in Modesto Formation as can be seen in Table 1, which shows fossils at only 8 localities with 75 miles of the study area. However, at anticipated project excavation depths of 30 feet or more, encountering the upper Riverbank Formation (below the Modesto Formation) is likely because it lies below the Modesto Formation. The Riverbank Formation has moderate sensitivity.
Qm_2e – Modesto Formation (Pleistocene)		
Qm_2f – Modesto Formation (Pleistocene)		
Qm_1 – Modesto Formation (Pleistocene)		
Qr_3 – Upper Riverbank Formation (Pleistocene)	3: moderate	Riverbank Formation has yielded significant vertebrate fossils of early Rancholabrean or late Irvingtonian age. However, no fossil localities in Riverbank Formation were found for this assessment within 7 miles of the study area. Overall, scientifically significant fossils occur in this formation intermittently and with low predictability outside of major river channels. The Riverbank Formation is determined to have moderate sensitivity.
Qr_3f – Upper Riverbank Formation (Pleistocene)		
Qr_2f – Middle Riverbank Formation (Pleistocene)		
Qr_2 – Lower Riverbank Formation (Pleistocene)		
Qt_1 – Turlock Lake Formation (Pleistocene)	3: moderate	As discussed in Section 5.2, a significant Irvingtonian Land Mammal Age fossil discovery occurred approximately 20 miles southeast of the study area at Fairmead Landfill. However, evidence for other vertebrate fossil localities in this formation is limited. Several plant fossil localities from this formation were found, but they are all approximately 120 miles from the study area. Turlock Lake Formation has yielded occasional fossils with predictability. At project excavation depths, this formation is determined to have moderate paleontological sensitivity in the study area.
Tl – Laguna Formation (Pliocene)	2: low	As discussed in Section 5.2, this formation is not known to be fossiliferous. Accordingly, sensitivity is determined to be low.

7. Findings and Recommendations

7.1 Findings

Attachment 2, Paleontological Sensitivity Map, is based on Table 4 and shows the paleontological sensitivity of geologic units underlying proposed transmission alignments and substations. From Attachment 2 and Table 4, the following conclusions can be made:

- The LEU portion of the project, and the PG&E portion of the project when west of PG&E Lockeford Substation, except for PG&E transmission line structures W1, W2, W7, and W9, would be constructed on sediment that has been determined to have low to moderate paleontological sensitivity, with moderate sensitivity beginning at an approximate depth of 30 feet.
- The expanded PG&E Lockeford Substation, PG&E transmission line structures W1, W2, W7, and W9, and the majority of new PG&E transmission lines east of PG&E Lockeford Substation, would be constructed on sediment with moderate paleontological sensitivity. These PG&E portions of the project are located where Riverbank formation occurs at the surface.
- East of PG&E Lockeford Substation, two PG&E transmission line structures (E5 and E19) are mapped as being located on sediment with low paleontological sensitivity.
- None of the proposed project features would be constructed on geologic units of high paleontological sensitivity according to surface mapping.

However, because there is potential to encounter geologic units of greater sensitivity at depth and also potential – although relatively low – for unanticipated fossil discovery in geologic units determined to be of low to moderate sensitivity, EPMs described in the following sections, are recommended.

7.2 Recommendations

The following EPMs are recommended for ground-disturbing activities greater than 3 feet bgs. No measures are recommended in soil or sediment that is imported or previously disturbed. No measures are recommended for drilling/augering excavation with a drill that is 3 feet or less in diameter.

EPM PAL–1a: Retain a PG&E Qualified Paleontological Principal Investigator. A PG&E Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all EPMs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques. Qualifications of PG&E's Paleontological Principal Investigator will be confirmed by the CPUC prior to retention.

EPM PAL–1b: Retain an LEU Qualified Paleontological Principal Investigator. An LEU Paleontological Principal Investigator who meets the standards set forth by the Society of Vertebrate Paleontology will be retained to ensure that all EPMs related to paleontological resources are properly implemented. The Paleontological Principal Investigator will have a master's degree or Ph.D. in geology or paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.

EPM PAL–2a: PG&E Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all PG&E work locations. It may be provided by the PG&E project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved

- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

EPM PAL–2b: LEU Workers Environmental Awareness Training. Training on paleontological resources protection will be administered for excavation deeper than 3 feet bgs at all LEU work locations. It may be provided by the LEU project Paleontologist or Archaeologist as a stand-alone training or it may be included as part of the overall environmental awareness training as required by the project.

The training will include the following:

- The types of fossils that could occur at the project site
- The types of lithologies in which the fossils could be preserved
- The procedures that should be taken in the event of a fossil discovery
- Penalties for disturbing paleontological resources

EPM PAL-3a: Paleontological Resource Monitoring for Select PG&E Construction Activities. A paleontological monitor will be present to monitor for paleontological resources in areas where Riverbank formation occurs at the surface and excavation is greater than 3 feet deep and, for excavations involving drilling or augering, uses a drill diameter that is larger than 3 feet. The paleontological monitor will be able to: (1) recognize fossils and paleontological deposits, and deposits that may be paleontologically sensitive; (2) take accurate and detailed field notes, photographs, and locality coordinates; and (3) document project-related ground-disturbing activities, their locations, and other relevant information, including a photographic record.

EPM PAL–4a: PG&E Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during PG&E's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and Cultural Resource Specialist (CRS) immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for a PG&E Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, PG&E will implement measures to protect and document the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and CRS.
- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing or increasing the amount of monitoring required.

EPM PAL–4b: LEU Unanticipated Paleontological Discovery. If significant paleontological resources are discovered during LEU's construction activities, the following procedures will be followed:

- Stop work immediately within 100 feet of the fossil find.
- Contact the designated project inspector and LEU Cultural Resource Lead immediately.
- Protect the site from further impacts, including looting, erosion, or other human or natural damage.
- Arrange for an LEU Paleontological Principal Investigator to evaluate the discovery. If the discovery is determined to be significant, LEU will implement measures to protect and document the paleontological resource. Work may not resume within 100 feet of the find until approved by the paleontologist and LEU Cultural Resource Lead.

- Curate all fossils discovered in an appropriate repository.
- A qualified paleontologist will be notified to review the need for paleontological monitoring during subsequent ground-disturbing activities with the potential to affect paleontologically sensitive sediments at that location. The qualified paleontologist will be responsible for the reassessment of paleontological sensitivity upon the receipt of additional information from ongoing excavations, which may result in reducing or increasing the amount of monitoring required.

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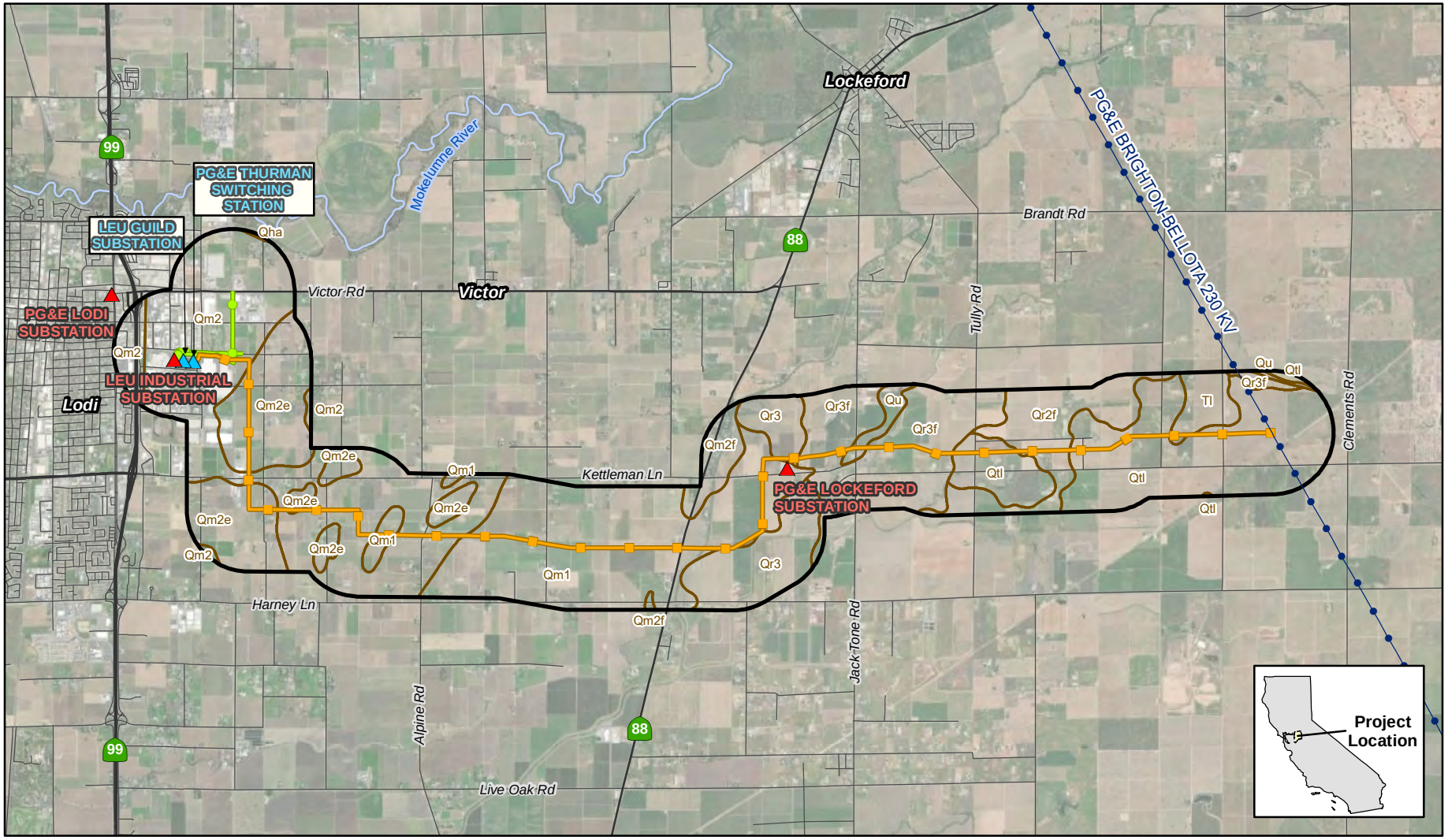

Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line Modification
- Existing PG&E 230 kV Transmission Line
- 0.5-mile Radius Around Project Components
- Geologic Unit*

Source: Marchand and Atwater, 1979; Marchand and Bartow, 1979

*Geologic Units
Qha – alluvium (Holocene)
Qu – alluvium/colluvium (Holocene/Pleistocene)
Qm2 – Modesto Formation – upper (Pleistocene)
Qm2e – Modesto Formation – upper (Pleistocene)
Qm2f – Modesto Formation – upper (Pleistocene)
Qm1 – Modesto Formation – lower (Pleistocene)
Qr2 – Riverbank Formation – middle (Pleistocene)
Qr2f – Riverbank Formation – middle (Pleistocene)
Qr3 – Riverbank Formation – upper (Pleistocene)
Qr3f – Riverbank Formation – upper (Pleistocene)
Qtl – Turlock Lake Formation (Pleistocene)
Tl – Laguna Formation (Pliocene)

N

0 0.5 1 2
Miles

Figure 1
Geologic Units
Northern San Joaquin 230 kV Transmission Project

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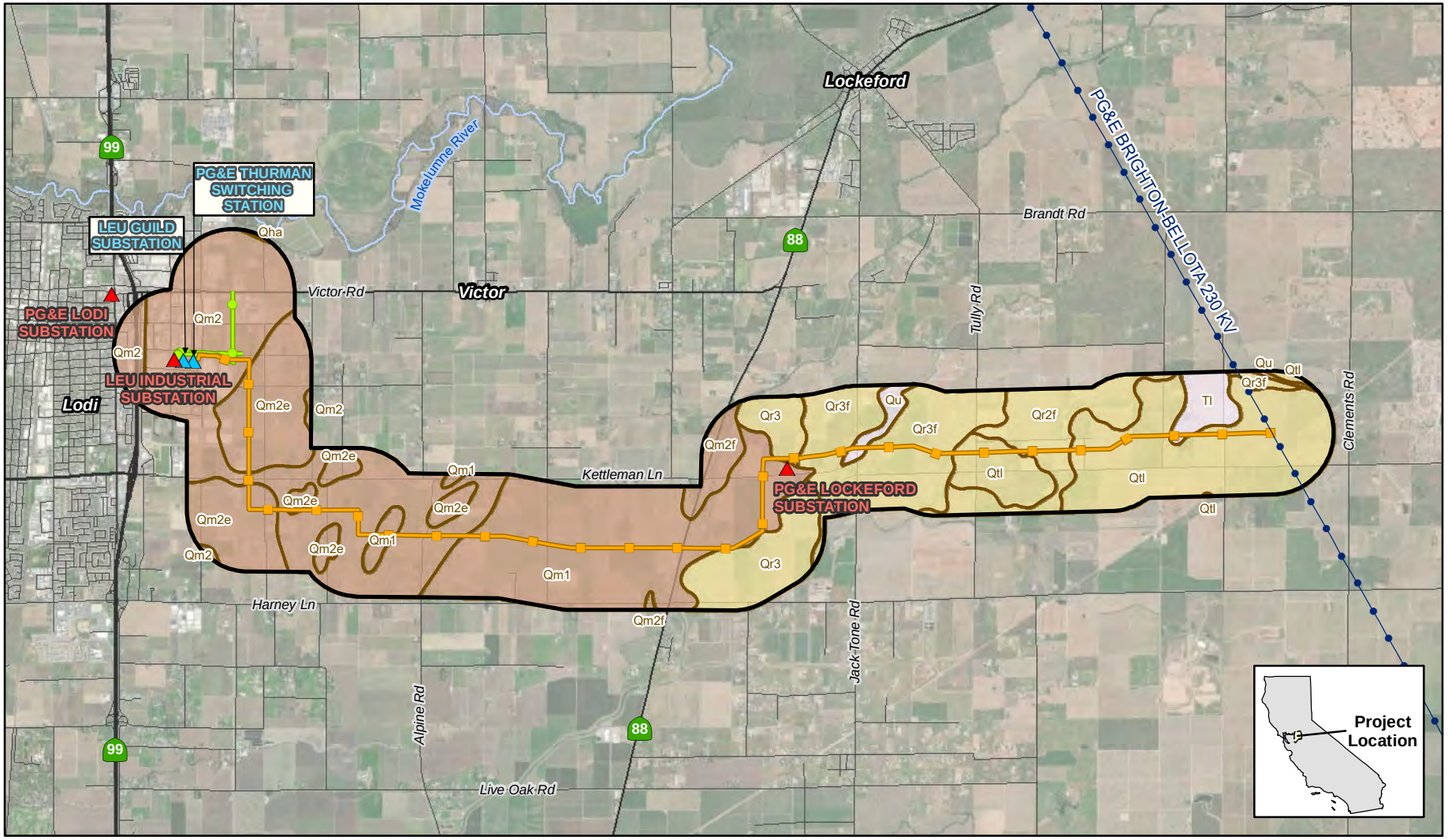

Legend

- Exsting Substation
- New Substation/ Switching Station
- PG&E New 230 kV Transmission Line
- Existing PG&E 60 kV Power Line Modification
- Existing PG&E 230 kV Transmission Line
- 0.5-mile Radius Around Project Components

Paleontological Sensitivity

- Moderate
- Low to Moderate
- Low

Source: Marchand and Atwater, 1979; Marchand and Bartow, 1979

*Geologic Units
Qha – alluvium (Holocene)
Qu – alluvium/colluvium (Holocene/Pleistocene)
Qm2 – Modesto Formation – upper (Pleistocene)
Qm2e – Modesto Formation – upper (Pleistocene)
Qm2f – Modesto Formation – upper (Pleistocene)
Qm1 – Modesto Formation – lower (Pleistocene)
Qr2 – Riverbank Formation – middle (Pleistocene)
Qr2f – Riverbank Formation – middle (Pleistocene)
Qr3 – Riverbank Formation – upper (Pleistocene)
Qr3f – Riverbank Formation – upper (Pleistocene)
Qtl – Turlock Lake Formation (Pleistocene)
Tl – Laguna Formation (Pliocene)

N

0 0.5 1 2
Miles

Figure 2
Paleontological Sensitivity
Northern San Joaquin 230 kV Transmission Project

\\Dc1vs01\gisproj\P\PGE\NSJPC\MapFiles\PEA\Geology\Paleo_Sensitivity_221115.mxd

Appendix G1
Environmental Data Resources, Inc.
Report for Project Areas

Northern San Joaquin 230 Kv Transmission Project
San Joaquin County
Lodi, CA 95240

Inquiry Number: 7105771.1s
September 02, 2022

EDR Area / Corridor Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

SAN JOAQUIN COUNTY
LODI, CA 95240

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Lists of state and tribal leaking storage tanks

CPS-SLIC: Statewide SLIC Cases

A review of the CPS-SLIC list, as provided by EDR, has revealed that there is 1 CPS-SLIC site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
CENTRAL CALIFORNIA T	***305 S GUILD AVE***	***A2 / 10***	***57***
Database: CPS-SLIC, Date of Government Version: 05/23/2022 Global Id: T10000003187 Facility Status: Open - Assessment & Interim Remedial Action			

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 05/13/2022 has revealed that there is 1 FINDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
CENTRAL CALIFORNIA T	305 S GUILD AVE	A1 / 10	57

EXECUTIVE SUMMARY

Registry ID:: 110065242375

CERS: CERS

A review of the CERS list, as provided by EDR, and dated 04/18/2022 has revealed that there is 1 CERS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
CENTRAL CALIFORNIA T	***305 S GUILD AVE***	***A2 / 10***	***57***

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/26/2022 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
B&G INDUSTRIES Site ID: 0900114 EPA Id: CAD982359184	100 S CLUFF AVE	NNW 1/8 - 1/4 (0.177 mi.)	N58 / 1	211

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

A review of the RCRA-LQG list, as provided by EDR, and dated 06/20/2022 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LODI METAL TECH,INC EPA ID:: CAD981369994	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***

RCRA-SQG: RCRA - Small Quantity Generators

A review of the RCRA-SQG list, as provided by EDR, and dated 06/20/2022 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
WESTERN FARM SVC - L EPA ID:: CAT080011836	***6042 E. KETTLEMAN RD***	***W 0 - 1/8 (0.085 mi.)***	***F24 / 10***	***103***
CERTAINTEED CORP EPA ID:: CAD094881067	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.185 mi.)***	***P61 / 9***	***214***

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/25/2022 has revealed that there are 4 ENVIROSTOR sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
B & G INDUSTRIES Facility Id: 39240005 Status: No Further Action	100 S CLUFF AVE	NNW 1/8 - 1/4 (0.177 mi.)	N56 / 1	209
LODI METAL TECH,INC Facility Id: 39340005 Status: Refer: Other Agency	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***
PINKERTON FOUNDRY Facility Id: 39330006 Status: Refer: Other Agency	***32 N CLUFF***	***N 1/4 - 1/2 (0.321 mi.)***	***W86 / 1***	***421***
LODI DOOR INC Facility Id: 39340006 Status: Refer: RCRA	***1220 VICTOR RD***	***N 1/2 - 1 (0.520 mi.)***	***95 / 2***	***475***

Lists of state and tribal leaking storage tanks

LUST: Geotracker's Leaking Underground Fuel Tank Report

A review of the LUST list, as provided by EDR, has revealed that there are 12 LUST sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DELTA PACKING CO Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 05/23/2022 Global Id: T0607700415 Status: Completed - Case Closed Status: Case Closed	***5950 KETTLEMAN LN E***	***W 1/8 - 1/4 (0.137 mi.)***	***L46 / 10***	***171***
LODI METAL TECH,INC Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 05/23/2022	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***

Global Id: T0607700150
Status: Completed - Case Closed
Status: Case Closed

LODI READY MIX ***851 LODI AVE E*** ***WNW 1/4 - 1/2 (0.262 mi.)*** ***S82 / 1*** ***414***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700362
Status: Completed - Case Closed
Status: Case Closed

LODI LUMBER CO ***1025 INDUSTRIAL*** ***SSW 1/4 - 1/2 (0.313 mi.)*** ***V84 / 9*** ***418***
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700396
Status: Completed - Case Closed

LODI LUMBER CO ***1025 INDUSTRIAL WAY*** ***SSW 1/4 - 1/2 (0.313 mi.)*** ***V85 / 9*** ***420***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Status: Case Closed

S.J. MOSQUITO ABATEM ***200 BECKMAN*** ***WNW 1/4 - 1/2 (0.339 mi.)*** ***87 / 1*** ***423***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700152
Status: Completed - Case Closed
Status: Case Closed

AMERICAN DUTCH FOUND ***42 CLUFF*** ***N 1/4 - 1/2 (0.344 mi.)*** ***W88 / 1*** ***426***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700223
Status: Completed - Case Closed
Status: Case Closed

PART CONTAINER CORP ***1400 VICTOR*** ***N 1/4 - 1/2 (0.370 mi.)*** ***89 / 2*** ***429***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700681
Status: Completed - Case Closed
Status: Case Closed

CAL TRANS LODI MAINT ***845 PINE ST E*** ***NW 1/4 - 1/2 (0.386 mi.)*** ***X91 / 1*** ***433***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700365
Status: Completed - Case Closed
Status: Case Closed

LUSD TRANSPORTATION ***820 CLUFF*** ***S 1/4 - 1/2 (0.403 mi.)*** ***92 / 9*** ***435***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700460
Status: Completed - Case Closed
Status: Case Closed

DON KELLER TRUCKING ***940 VICTOR*** ***NNW 1/4 - 1/2 (0.468 mi.)*** ***93 / 1*** ***438***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Global Id: T0607700731
Status: Completed - Case Closed
Status: Case Closed

TERESI TRUCKING LLC ***900 1/2 VICTOR ROAD*** ***NNW 1/4 - 1/2 (0.485 mi.)*** ***94 / 1*** ***440***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022

Global Id: T0607700727
Status: Completed - Case Closed
Status: Case Closed

CPS-SLIC: Statewide SLIC Cases

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 3 CPS-SLIC sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
B & G INDUSTRIES, S.	100 CLUFF RD S	N 1/8 - 1/4 (0.173 mi.)	N54 / 1	206
Database: SLIC REG 5, Date of Government Version: 04/01/2005				
B&G INDUSTRIES, S.B.	***100 SOUTH CLUFF AVE***	***NNW 1/8 - 1/4 (0.177 mi.)***	***N57 / 1***	***210***
Database: CPS-SLIC, Date of Government Version: 05/23/2022 Global Id: SLT5S0423083 Facility Status: Open - Inactive				
KISHIDA PROPERTY	***860 E. PINE STREET***	***NW 1/4 - 1/2 (0.371 mi.)***	***X90 / 1***	***432***
Database: CPS-SLIC, Date of Government Version: 05/23/2022 Global Id: T10000000285 Facility Status: Completed - Case Closed				

Lists of state and tribal registered storage tanks

UST: Active UST Facilities

A review of the UST list, as provided by EDR, has revealed that there are 9 UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ERNEST HEKENLAIBLE	14117 N LOCUST TREE	S 0 - 1/8 (0.023 mi.)	B3 / 12	58
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0005283				
ROBERT & CYNTHIA WEA	15466 N LINN RD	N 0 - 1/8 (0.066 mi.)	14 / 15	75
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0000565				
MCVICKER, WILL	15510 N JACK TONE RD	N 0 - 1/8 (0.076 mi.)	E18 / 13	97
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0005514				
BREA AGRICULTURAL IN	6042 E KETTLEMAN LN	W 0 - 1/8 (0.085 mi.)	F21 / 10	99
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0004692				
BREA AGRICULTURAL SE	6042 E KETTLEMAN LN	W 0 - 1/8 (0.085 mi.)	F22 / 10	99
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable				

Facility Id: FA0004881

METTLER PROPERTY	14090 N ALPINE RD	S 1/8 - 1/4 (0.133 mi.)	42 / 19	166
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0007276				
DELTA PACKING COMPAN	5950 E KETTLEMAN LN	W 1/8 - 1/4 (0.137 mi.)	L49 / 10	193
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0005059				
TRIANGLE PACIFIC COR	300 S BECKMAN RD	W 1/8 - 1/4 (0.185 mi.)	P60 / 9	214
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0005948				
HEARTLAND STEEL PROD	213 S KELLY ST	NW 1/8 - 1/4 (0.248 mi.)	U80 / 1	299
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0000696				

AST: Aboveground Petroleum Storage Tank Facilities

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
SCHAEFER SYTEMS LLC	1250 E THURMAN RD	S 0 - 1/8 (0.104 mi.)	H31 / 10	135
Database: AST, Date of Government Version: 07/06/2016				
KETTLEMAN HILLS FACI	35251 OLD SKYLINE RD	W 1/8 - 1/4 (0.145 mi.)	L53 / 10	206
Database: AST, Date of Government Version: 07/06/2016				
NORTH AMERICAN SPECI	300 S BECKMAN RD	W 1/8 - 1/4 (0.185 mi.)	P59 / 9	213
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycler Database

A review of the SWRCY list, as provided by EDR, and dated 06/06/2022 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
TOKAY VALLEY RECYCLI	***60 S CLUFF AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***N67 / 1***	***241***
Cert Id: RC14663				

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: CERS HAZ WASTE

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/18/2022 has revealed that there are 13 CERS HAZ WASTE sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DELTA PACKING CO. OF	***6021 E KETTLEMAN LAN***	***W 0 - 1/8 (0.053 mi.)***	***C10 / 10***	***66***
SSHP COLD STORAGE, L	***6030 E KETTLEMAN LN***	***W 0 - 1/8 (0.073 mi.)***	***C15 / 10***	***76***
R & L CARRIERS	***1330 THURMAN ST***	***S 0 - 1/8 (0.100 mi.)***	***G26 / 10***	***109***
SCHAEFER SYTEMS LLC	***1250 E THURMAN RD***	***S 0 - 1/8 (0.104 mi.)***	***H29 / 10***	***127***
PACIFIC COAST PRODUC	***650 S GUILD***	***SSW 0 - 1/8 (0.109 mi.)***	***J34 / 10***	***138***
JOES AUTOMOTIVE OF L	***200 COMMERCE ST #101***	***NNW 0 - 1/8 (0.123 mi.)***	***I40 / 2***	***151***
DELTA PACKING COMPAN	***5950 E KETTLEMAN LAN***	***W 1/8 - 1/4 (0.137 mi.)***	***L47 / 10***	***174***
SWEETENER PRODUCTS I	***1150 E THURMAN ST***	***SW 1/8 - 1/4 (0.137 mi.)***	***M50 / 9***	***194***
NORTH AMERICAN SPECI	***300 S BECKMAN RD***	***W 1/8 - 1/4 (0.185 mi.)***	***P62 / 9***	***225***
GUARANTEE REPAIR SER	***101 COMMERCE ST***	***NNW 1/8 - 1/4 (0.198 mi.)***	***Q65 / 2***	***232***
D&B JUNGEBLUT	***5827 E KETTLEMAN LN***	***W 1/8 - 1/4 (0.220 mi.)***	***R69 / 10***	***276***
SHANDS DIESEL TRUCK	***885 E LODI AVE A***	***WNW 1/8 - 1/4 (0.246 mi.)***	***S74 / 1***	***282***
LODI METAL TECH,INC	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***

Toxic Pits: Toxic Pits Cleanup Act Sites

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 Toxic Pits site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
OVERHEAD/LODI DOOR C		***NNW 1/2 - 1 (0.573 mi.)***	***97 / 1***	***481***
Closure Date: 12/31/90				
Task #: 85114				
Status: CLOSED				

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 7 SWEEPS UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
EMIL HEKENLAIBLE	***14117 N LOCUST TREE***	***S 0 - 1/8 (0.023 mi.)***	***B5 / 12***	***59***
Comp Number: 4200				
GENE MCKNIGHT	***14415 N ALPINE ROAD***	***N 0 - 1/8 (0.059 mi.)***	***D13 / 11***	***74***
Status: A				
Tank Status: A				
Comp Number: 4358				
WILL MCVICKER	***15510 N JACK TONE RO***	***N 0 - 1/8 (0.076 mi.)***	***E17 / 13***	***96***
Comp Number: 4353				
DELTA PACKING COMPAN	***5950 E KETTLEMAN LAN***	***W 1/8 - 1/4 (0.137 mi.)***	***L47 / 10***	***174***

Comp Number: 1347				
BREA AGRI SERV INC	***5991 E KETTLEMAN LN***	***W 1/8 - 1/4 (0.138 mi.)***	***L52 / 10***	***201***
Comp Number: 2132				
CERTAINTEED CORP	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.185 mi.)***	***P61 / 9***	***214***
Comp Number: 2347				
LODI METAL TECH,INC	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***
Comp Number: 2131				

HIST UST: Hazardous Substance Storage Container Database

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 26 HIST UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
EMIL HECKENLAIBLE	14117 NORTH LOCUST T	S 0 - 1/8 (0.023 mi.)	B4 / 12	58
Facility Id: 00000048395				
LODI COLD STORAGE	6021 E KETTLEMEN	W 0 - 1/8 (0.053 mi.)	C7 / 10	62
LODI COLD STORAGE	6021 E KETTLEMAN LN	W 0 - 1/8 (0.053 mi.)	C8 / 10	63
Facility Id: 00000051360				
WINSTON C WATSON	14262 N LOCUST TREE	N 0 - 1/8 (0.054 mi.)	11 / 12	72
Facility Id: 00000049056				
BGM RANCH	14415 NORTH ALPINE R	N 0 - 1/8 (0.059 mi.)	D12 / 11	73
Facility Id: 00000056261				
WILL MCVICKER	***15510 N JACK TONE RO***	***N 0 - 1/8 (0.076 mi.)***	***E17 / 13***	***96***
MCVICKER RANCH	15510M N JACK TONE R	N 0 - 1/8 (0.076 mi.)	E19 / 13	98
Facility Id: 00000028827				
LW KEARL	14408 NO ALPINE RD	N 0 - 1/8 (0.079 mi.)	20 / 11	98
Facility Id: 00000064739				
A J HANDEL JR	15277 N CURRY AVE	E 0 - 1/8 (0.110 mi.)	35 / 10	145
Facility Id: 00000033511				
GEORGE IWAMIYA	15661 N CURRY AVE	E 0 - 1/8 (0.110 mi.)	36 / 10	145
Facility Id: 00000037041				
RICHARD D DIEKMAN	15415 N CURRY AVE	E 0 - 1/8 (0.110 mi.)	K37 / 10	146
Facility Id: 00000044214				
SHARBOB, INC DBA LOC	13975 N HIGHWAY 88	S 0 - 1/8 (0.120 mi.)	39 / 20	150
Facility Id: 00000014331				
HUBERT METTLER	14413 N LOCUST TREE	N 1/8 - 1/4 (0.129 mi.)	41 / 12	165
Facility Id: 00000037054				
GLENN C NOMA	15308 N CURRY AVE	E 1/8 - 1/4 (0.135 mi.)	43 / 10	167
Facility Id: 00000044402				
GARETH E HOSMER	15542 NO CURRY AVE	E 1/8 - 1/4 (0.135 mi.)	45 / 10	170
Facility Id: 00000023666				
DELTA PACKING COMPAN	***5950 E KETTLEMAN LAN***	***W 1/8 - 1/4 (0.137 mi.)***	***L47 / 10***	***174***
DELTA PACKING COMPAN	5950 E KETTLEMAN LN	W 1/8 - 1/4 (0.137 mi.)	L48 / 10	192
Facility Id: 00000016590				
BREA AGRI SERV INC	***5991 E KETTLEMAN LN***	***W 1/8 - 1/4 (0.138 mi.)***	***L52 / 10***	***201***
Facility Id: 00000042978				
CERTAINTEED CORP	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.185 mi.)***	***P61 / 9***	***214***

Facility Id: 00000067253				
CLYDE C CULBERTSON Facility Id: 00000052104	13915 N LOCUST TREE	S 1/8 - 1/4 (0.187 mi.)	64 / 20	232
DUANE M JUNGEBLUT Facility Id: 00000038195	5827 F KETTLEMAN LAN	W 1/8 - 1/4 (0.220 mi.)	R70 / 10	278
FRANK CANEDA Facility Id: 00000055157	15760 N TULLY RD	N 1/8 - 1/4 (0.227 mi.)	71 / 14	278
LAWRENCE LIPPERT Facility Id: 00000023284	7362 E KETTLEMAN	N 1/8 - 1/4 (0.245 mi.)	73 / 10	281
FRANKLYN R WENDELL Facility Id: 00000053489	14199 N CURRY AVE	S 1/8 - 1/4 (0.247 mi.)	78 / 10	298
PAT HALE Facility Id: 00000028243	7540 E KETTLEMAN LN	N 1/8 - 1/4 (0.248 mi.)	79 / 11	298
LODI METAL TECH,INC Facility Id: 00000000716	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***

CERS TANKS: California Environmental Reporting System (CERS) Tanks

A review of the CERS TANKS list, as provided by EDR, and dated 04/18/2022 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
SCHAEFER SYTEMS LLC	***1250 E THURMAN RD***	***S 0 - 1/8 (0.104 mi.)***	***H29 / 10***	***127***
NORTH AMERICAN SPECI	***300 S BECKMAN RD***	***W 1/8 - 1/4 (0.185 mi.)***	***P62 / 9***	***225***

CA FID UST: Facility Inventory Database

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 7 CA FID UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
EMIL HEKENLAIBLE Facility Id: 39003957 Status: I	***14117 N LOCUST TREE***	***S 0 - 1/8 (0.023 mi.)***	***B5 / 12***	***59***
GENE MCKNIGHT Facility Id: 39001276 Status: A	***14415 N ALPINE ROAD***	***N 0 - 1/8 (0.059 mi.)***	***D13 / 11***	***74***
WILL MCVICKER Facility Id: 39004090 Status: I	***15510 N JACK TONE RO***	***N 0 - 1/8 (0.076 mi.)***	***E17 / 13***	***96***
DELTA PACKING COMPAN Facility Id: 39000430 Status: I	***5950 E KETTLEMAN LAN***	***W 1/8 - 1/4 (0.137 mi.)***	***L47 / 10***	***174***
BREA AGRI SERV INC Facility Id: 39003050 Status: I	***5991 E KETTLEMAN LN***	***W 1/8 - 1/4 (0.138 mi.)***	***L52 / 10***	***201***
CERTAINTEED CORP	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.185 mi.)***	***P61 / 9***	***214***

Facility Id: 39001880
Status: I

LODI METAL TECH,INC ***213 SO. KELLY STREET*** ***NW 1/8 - 1/4 (0.248 mi.)*** ***U81 / 1*** ***301***
Facility Id: 39003652
Status: I

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/20/2022 has revealed that there are 21 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
HECKENLAIBLE FARMS I EPA ID:: CAL000404573	14117 N LOCUST TREE	S 0 - 1/8 (0.023 mi.)	B6 / 12	60
DELTA PACKING CO EPA ID:: CAL000263220	6021 E KETTLEMEN LN	W 0 - 1/8 (0.053 mi.)	C9 / 10	63
SILVESTRES MECHANICA EPA ID:: CAL000348824	6030 E KETTLEMAN LN	W 0 - 1/8 (0.073 mi.)	C16 / 10	93
CROP PRODUCTION SERV EPA ID:: CAL000160218	6042 E KETTLEMAN LN	W 0 - 1/8 (0.085 mi.)	F23 / 10	100
CEPHEID EPA ID:: CAL000460927	1330 E THURMAN RD	S 0 - 1/8 (0.100 mi.)	G25 / 10	106
AMERICAN MASTER TECH EPA ID:: CAL000433471	1330 THURMAN ST	S 0 - 1/8 (0.100 mi.)	G27 / 10	122
SCIENTIFIC SPECIALTI EPA ID:: CAL000207603	1310 THURMAN ST	S 0 - 1/8 (0.102 mi.)	28 / 10	125
SCHAEFER SYSTEMS LLC EPA ID:: CAL000204751	1250 E THURMAN RD	S 0 - 1/8 (0.104 mi.)	H30 / 10	132
PACIFIC COAST PRODUC EPA ID:: CAL000205335	650 SO GUILD AVE	SSW 0 - 1/8 (0.109 mi.)	J33 / 10	136
PACIFIC GAS & ELECTR EPA ID:: CAC002995533	12861 EAST KETTLEMAN	S 0 - 1/8 (0.111 mi.)	38 / 13	147
GEORGE PERLEGOS EPA ID:: CAC003167961	15506 N. CURRY AVE.	E 1/8 - 1/4 (0.135 mi.)	K44 / 10	168
SWEETENER PRODUCTS I EPA ID:: CAL000280186	1150 E THURMAN ST	SW 1/8 - 1/4 (0.137 mi.)	M51 / 9	199
BREA AGRI SERV INC EPA ID:: CAD000629428	***5991 E KETTLEMAN LN***	***W 1/8 - 1/4 (0.138 mi.)***	***L52 / 10***	***201***
FWS CONSTRUCTION EPA ID:: CAL000400719	111 S GUILD AVE	N 1/8 - 1/4 (0.177 mi.)	O55 / 2	207
NORTH AMERICAN SPECI EPA ID:: CAL000385256	300 S BECKMAN RD	W 1/8 - 1/4 (0.185 mi.)	P63 / 9	229
GUARANTEE REPAIR SER	101 COMMERCE ST	NNW 1/8 - 1/4 (0.198 mi.)	Q66 / 2	238

EPA ID:: CAL913476006				
CENTRAL VALLEY PAINT EPA ID:: CAL000447846	67 S GUILD AVE	N 1/8 - 1/4 (0.206 mi.)	O68 / 2	273
MIA BROWN EPA ID:: CAC003089492	14281 VINTAGE ROAD	S 1/8 - 1/4 (0.228 mi.)	72 / 10	279
SHANDS DIESEL TRUCK EPA ID:: CAL000213988	885 E LODI AVE	WNW 1/8 - 1/4 (0.246 mi.)	S75 / 1	290
BUSHCO PRECISION MAC EPA ID:: CAL000430104	21 COMMERCE ST	NNW 1/8 - 1/4 (0.247 mi.)	T76 / 2	293
BUSHCO PRECISION EPA ID:: CAL000376523	21 COMMERCE ST	NNW 1/8 - 1/4 (0.247 mi.)	T77 / 2	295

Cortese: "Cortese" Hazardous Waste & Substances Sites List

A review of the Cortese list, as provided by EDR, and dated 03/21/2022 has revealed that there are 11 Cortese sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DELTA PACKING CO Cleanup Status: COMPLETED - CASE CLOSED	***5950 KETTLEMAN LN E***	***W 1/8 - 1/4 (0.137 mi.)***	***L46 / 10***	***171***
LODI METAL TECH,INC Cleanup Status: COMPLETED - CASE CLOSED	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***
LODI READY MIX Cleanup Status: COMPLETED - CASE CLOSED	***851 LODI AVE E***	***WNW 1/4 - 1/2 (0.262 mi.)***	***S82 / 1***	***414***
LODI LUMBER CO Cleanup Status: COMPLETED - CASE CLOSED	***1025 INDUSTRIAL WAY***	***SSW 1/4 - 1/2 (0.313 mi.)***	***V85 / 9***	***420***
S.J. MOSQUITO ABATEM Cleanup Status: COMPLETED - CASE CLOSED	***200 BECKMAN***	***WNW 1/4 - 1/2 (0.339 mi.)***	***87 / 1***	***423***
AMERICAN DUTCH FOUND Cleanup Status: COMPLETED - CASE CLOSED	***42 CLUFF***	***N 1/4 - 1/2 (0.344 mi.)***	***W88 / 1***	***426***
PART CONTAINER CORP Cleanup Status: COMPLETED - CASE CLOSED	***1400 VICTOR***	***N 1/4 - 1/2 (0.370 mi.)***	***89 / 2***	***429***
CAL TRANS LODI MAINT Cleanup Status: COMPLETED - CASE CLOSED	***845 PINE ST E***	***NW 1/4 - 1/2 (0.386 mi.)***	***X91 / 1***	***433***
LUSD TRANSPORTATION Cleanup Status: COMPLETED - CASE CLOSED	***820 CLUFF***	***S 1/4 - 1/2 (0.403 mi.)***	***92 / 9***	***435***
DON KELLER TRUCKING Cleanup Status: COMPLETED - CASE CLOSED	***940 VICTOR***	***NNW 1/4 - 1/2 (0.468 mi.)***	***93 / 1***	***438***
TERESI TRUCKING LLC Cleanup Status: COMPLETED - CASE CLOSED	***900 1/2 VICTOR ROAD***	***NNW 1/4 - 1/2 (0.485 mi.)***	***94 / 1***	***440***

HIST CORTESE: Hazardous Waste & Substance Site List

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 9 HIST CORTESE sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DELTA PACKING CO Reg Id: 390530	***5950 KETTLEMAN LN E***	***W 1/8 - 1/4 (0.137 mi.)***	***L46 / 10***	***171***
LODI METAL TECH,INC Reg Id: 390216	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.248 mi.)***	***U81 / 1***	***301***
LODI READY MIX & BUI Reg Id: 390467	***851 E LODI AVE***	***WNW 1/4 - 1/2 (0.292 mi.)***	***83 / 1***	***417***
LODI LUMBER CO Reg Id: 390508	***1025 INDUSTRIAL***	***SSW 1/4 - 1/2 (0.313 mi.)***	***V84 / 9***	***418***
S.J. MOSQUITO ABATEM Reg Id: 390218	***200 BECKMAN***	***WNW 1/4 - 1/2 (0.339 mi.)***	***87 / 1***	***423***
AMERICAN DUTCH FOUND Reg Id: 390303	***42 CLUFF***	***N 1/4 - 1/2 (0.344 mi.)***	***W88 / 1***	***426***
PART CONTAINER CORP Reg Id: 390853	***1400 VICTOR***	***N 1/4 - 1/2 (0.370 mi.)***	***89 / 2***	***429***
LUSD TRANSPORTATION Reg Id: 390584	***820 CLUFF***	***S 1/4 - 1/2 (0.403 mi.)***	***92 / 9***	***435***
DON KELLER TRUCKING Reg Id: 390909	***940 VICTOR***	***NNW 1/4 - 1/2 (0.468 mi.)***	***93 / 1***	***438***

Notify 65: Proposition 65 Records

A review of the Notify 65 list, as provided by EDR, and dated 06/10/2022 has revealed that there are 2 Notify 65 sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ARCO STATION #760	225 SOUTH CHEROKEE	W 1/2 - 1 (0.528 mi.)	96 / 1	480
ARCO STATION #2076	800 EAST KETTLEMAN L	W 1/2 - 1 (0.996 mi.)	98 / 9	482

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
WESTSIDE GARAGE AUTO	226 COMMERCE ST S	NW 0 - 1/8 (0.109 mi.)	I32 / 2	136

MAPPED SITES SUMMARY

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
A1 / 10	CENTRAL CALIFORNIA T	305 S GUILD AVE	FINDS	TP		
A2 / 10	CENTRAL CALIFORNIA T	305 S GUILD AVE	CPS-SLIC, CERS	TP		
B3 / 12	ERNEST HEKENLAIBLE	14117 N LOCUST TREE	UST	124	0.023	South
B4 / 12	EMIL HECKENLAIBLE	14117 NORTH LOCUST T	HIST UST	124	0.023	South
B5 / 12	EMIL HEKENLAIBLE	14117 N LOCUST TREE	SWEEPS UST, CA FID UST	124	0.023	South
B6 / 12	HECKENLAIBLE FARMS I	14117 N LOCUST TREE	RCRA NonGen / NLR	124	0.023	South
C7 / 10	LODI COLD STORAGE	6021 E KETTLEMEN	HIST UST	279	0.053	West
C8 / 10	LODI COLD STORAGE	6021 E KETTLEMAN LN	HIST UST	279	0.053	West
C9 / 10	DELTA PACKING CO	6021 E KETTLEMEN LN	RCRA NonGen / NLR	279	0.053	West
C10 / 10	DELTA PACKING CO. OF	6021 E KETTLEMAN LAN	CERS HAZ WASTE, EMI, NPDES, CIWQS, CERS	279	0.053	West
11 / 12	WINSTON C WATSON	14262 N LOCUST TREE	HIST UST	284	0.054	North
D12 / 11	BGM RANCH	14415 NORTH ALPINE R	HIST UST	312	0.059	North
D13 / 11	GENE MCKNIGHT	14415 N ALPINE ROAD	SWEEPS UST, CA FID UST	312	0.059	North
14 / 15	ROBERT & CYNTHIA WEA	15466 N LINN RD	UST	347	0.066	North
C15 / 10	SSHP COLD STORAGE, L	6030 E KETTLEMAN LN	CERS HAZ WASTE, CERS	384	0.073	West
C16 / 10	SILVESTRES MECHANICA	6030 E KETTLEMAN LN	RCRA NonGen / NLR	384	0.073	West
E17 / 13	WILL MCVICKER	15510 N JACK TONE RO	SWEEPS UST, HIST UST, CA FID UST	400	0.076	North
E18 / 13	MCVICKER, WILL	15510 N JACK TONE RD	UST	400	0.076	North
E19 / 13	MCVICKER RANCH	15510M N JACK TONE R	HIST UST	400	0.076	North
20 / 11	LW KEARL	14408 NO ALPINE RD	HIST UST	416	0.079	North
F21 / 10	BREA AGRICULTURAL IN	6042 E KETTLEMAN LN	UST	451	0.085	West
F22 / 10	BREA AGRICULTURAL SE	6042 E KETTLEMAN LN	UST	451	0.085	West
F23 / 10	CROP PRODUCTION SERV	6042 E KETTLEMAN LN	RCRA NonGen / NLR	451	0.085	West
F24 / 10	WESTERN FARM SVC - L	6042 E. KETTLEMAN RD	RCRA-SQG, FINDS, ECHO	451	0.085	West
G25 / 10	CEPHEID	1330 E THURMAN RD	RCRA NonGen / NLR	528	0.100	South
G26 / 10	R & L CARRIERS	1330 THURMAN ST	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CE..	528	0.100	South
G27 / 10	AMERICAN MASTER TECH	1330 THURMAN ST	RCRA NonGen / NLR	528	0.100	South
28 / 10	SCIENTIFIC SPECIALTI	1310 THURMAN ST	RCRA NonGen / NLR	536	0.102	South
H29 / 10	SCHAEFER SYTEMS LLC	1250 E THURMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	547	0.104	South
H30 / 10	SCHAEFER SYSTEMS LLC	1250 E THURMAN RD	RCRA NonGen / NLR	547	0.104	South
H31 / 10	SCHAEFER SYTEMS LLC	1250 E THURMAN RD	AST	547	0.104	South
I32 / 2	WESTSIDE GARAGE AUTO	226 COMMERCE ST S	EDR Hist Auto	575	0.109	NW
J33 / 10	PACIFIC COAST PRODUC	650 SO GUILD AVE	RCRA NonGen / NLR	576	0.109	SSW
J34 / 10	PACIFIC COAST PRODUC	650 S GUILD	CERS HAZ WASTE, CERS	576	0.109	SSW
35 / 10	A J HANDEL JR	15277 N CURRY AVE	HIST UST	581	0.110	East
36 / 10	GEORGE IWAMIYA	15661 N CURRY AVE	HIST UST	582	0.110	East
K37 / 10	RICHARD D DIEKMAN	15415 N CURRY AVE	HIST UST	583	0.110	East
38 / 13	PACIFIC GAS & ELECTR	12861 EAST KETTLEMAN	RCRA NonGen / NLR	587	0.111	South
39 / 20	SHARBOB, INC DBA LOC	13975 N HIGHWAY 88	HIST UST	633	0.120	South

MAPPED SITES SUMMARY

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

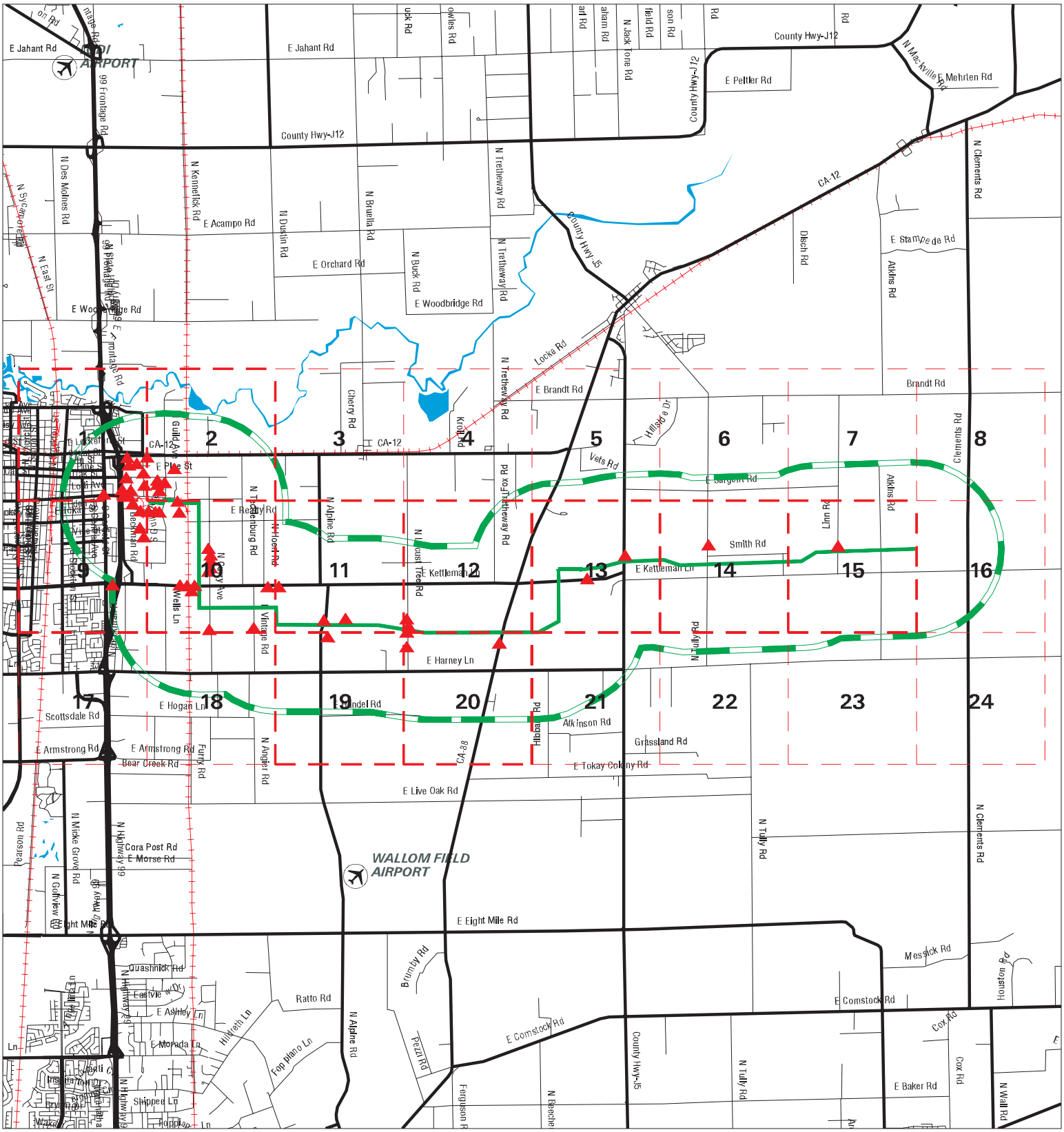
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
I40 / 2	JOES AUTOMOTIVE OF L	200 COMMERCE ST #101	CERS HAZ WASTE, CERS	651	0.123	NNW
41 / 12	HUBERT METTLER	14413 N LOCUST TREE	HIST UST	680	0.129	North
42 / 19	METTLER PROPERTY	14090 N ALPINE RD	UST	701	0.133	South
43 / 10	GLENN C NOMA	15308 N CURRY AVE	HIST UST	713	0.135	East
K44 / 10	GEORGE PERLEGOS	15506 N. CURRY AVE.	RCRA NonGen / NLR	714	0.135	East
45 / 10	GARETH E HOSMER	15542 NO CURRY AVE	HIST UST	714	0.135	East
L46 / 10	DELTA PACKING CO	5950 KETTLEMAN LN E	LUST, CHMIRS, Cortese, HIST CORTESE, CER...	723	0.137	West
L47 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LAN	CERS HAZ WASTE, SWEEPS UST, HIST UST, CA...	723	0.137	West
L48 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LN	HIST UST	723	0.137	West
L49 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LN	UST	723	0.137	West
M50 / 9	SWEETENER PRODUCTS I	1150 E THURMAN ST	CERS HAZ WASTE, CERS, HWTS	724	0.137	SW
M51 / 9	SWEETENER PRODUCTS I	1150 E THURMAN ST	RCRA NonGen / NLR	724	0.137	SW
L52 / 10	BREA AGRI SERV INC	5991 E KETTLEMAN LN	SWEEPS UST, HIST UST, CA FID UST, RCRA N...	730	0.138	West
L53 / 10	KETTLEMAN HILLS FACI	35251 OLD SKYLINE RD	AST	768	0.145	West
N54 / 1	B & G INDUSTRIES, S.	100 CLUFF RD S	CPS-SLIC	911	0.173	North
O55 / 2	FWS CONSTRUCTION	111 S GUILD AVE	RCRA NonGen / NLR	935	0.177	North
N56 / 1	B & G INDUSTRIES	100 S CLUFF AVE	ENVIROSTOR	937	0.177	NNW
N57 / 1	B&G INDUSTRIES, S.B.	100 SOUTH CLUFF AVE	CPS-SLIC, CERS	937	0.177	NNW
N58 / 1	B&G INDUSTRIES	100 S CLUFF AVE	SEMS-ARCHIVE	937	0.177	NNW
P59 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	AST	977	0.185	West
P60 / 9	TRIANGLE PACIFIC COR	300 S BECKMAN RD	UST	977	0.185	West
P61 / 9	CERTAINTEED CORP	300 SOUTH BECKMAN RO	RCRA-SQG, SWEEPS UST, HIST UST, CA FID U...	977	0.185	West
P62 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	977	0.185	West
P63 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	RCRA NonGen / NLR	977	0.185	West
64 / 20	CLYDE C CULBERTSON	13915 N LOCUST TREE	HIST UST	987	0.187	South
Q65 / 2	GUARANTEE REPAIR SER	101 COMMERCE ST	CERS HAZ WASTE, CERS	1048	0.198	NNW
Q66 / 2	GUARANTEE REPAIR SER	101 COMMERCE ST	RCRA NonGen / NLR	1048	0.198	NNW
N67 / 1	TOKAY VALLEY RECYCLI	60 S CLUFF AVE	SWRCY, NPDES, CERS	1062	0.201	NNW
O68 / 2	CENTRAL VALLEY PAINT	67 S GUILD AVE	RCRA NonGen / NLR	1088	0.206	North
R69 / 10	D&B JUNGEBLUT	5827 E KETTLEMAN LN	CERS HAZ WASTE, CERS	1159	0.220	West
R70 / 10	DUANE M JUNGEBLUT	5827 F KETTLEMAN LAN	HIST UST	1159	0.220	West
71 / 14	FRANK CANEDA	15760 N TULLY RD	HIST UST	1199	0.227	North
72 / 10	MIA BROWN	14281 VINTAGE ROAD	RCRA NonGen / NLR	1202	0.228	South
73 / 10	LAWRENCE LIPPERT	7362 E KETTLEMAN	HIST UST	1292	0.245	North
S74 / 1	SHANDS DIESEL TRUCK	885 E LODI AVE A	CERS HAZ WASTE, CERS	1299	0.246	WNW
S75 / 1	SHANDS DIESEL TRUCK	885 E LODI AVE	RCRA NonGen / NLR	1299	0.246	WNW
T76 / 2	BUSHCO PRECISION MAC	21 COMMERCE ST	RCRA NonGen / NLR	1302	0.247	NNW
T77 / 2	BUSHCO PRECISION	21 COMMERCE ST	RCRA NonGen / NLR	1302	0.247	NNW
78 / 10	FRANKLYN R WENDELL	14199 N CURRY AVE	HIST UST	1306	0.247	South

MAPPED SITES SUMMARY

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
79 / 11	PAT HALE	7540 E KETTLEMAN LN	HIST UST	1308	0.248	North
U80 / 1	HEARTLAND STEEL PROD	213 S KELLY ST	UST	1309	0.248	NW
U81 / 1	LODI METAL TECH,INC	213 SO. KELLY STREET	RCRA-LQG, ENVIROSTOR, LUST, CERS HAZ WAS	1309	0.248	NW
S82 / 1	LODI READY MIX	851 LODI AVE E	LUST, Cortese, CERS	1383	0.262	WNW
83 / 1	LODI READY MIX & BUI	851 E LODI AVE	HIST UST, HIST CORTESE	1544	0.292	WNW
V84 / 9	LODI LUMBER CO	1025 INDUSTRIAL	LUST, HIST UST, HIST CORTESE	1653	0.313	SSW
V85 / 9	LODI LUMBER CO	1025 INDUSTRIAL WAY	LUST, Cortese, CERS	1653	0.313	SSW
W86 / 1	PINKERTON FOUNDRY	32 N CLUFF	ENVIROSTOR, EMI	1697	0.321	North
87 / 1	S.J. MOSQUITO ABATEM	200 BECKMAN	LUST, Cortese, HIST CORTESE, CERS	1791	0.339	WNW
W88 / 1	AMERICAN DUTCH FOUND	42 CLUFF	LUST, Cortese, HIST CORTESE, CERS	1815	0.344	North
89 / 2	PART CONTAINER CORP	1400 VICTOR	LUST, CHMIRS, Cortese, HIST CORTESE, CER...	1956	0.370	North
X90 / 1	KISHIDA PROPERTY	860 E. PINE STREET	CPS-SLIC, CERS	1957	0.371	NW
X91 / 1	CAL TRANS LODI MAINT	845 PINE ST E	LUST, Cortese, CERS	2036	0.386	NW
92 / 9	LUSD TRANSPORTATION	820 CLUFF	LUST, Cortese, HIST CORTESE, CERS	2130	0.403	South
93 / 1	DON KELLER TRUCKING	940 VICTOR	LUST, Cortese, HIST CORTESE, CERS	2469	0.468	NNW
94 / 1	TERESI TRUCKING LLC	900 1/2 VICTOR ROAD	RCRA-LQG, LUST, SWEEPS UST, FINDS, ECHO,...	2560	0.485	NNW
95 / 2	LODI DOOR INC	1220 VICTOR RD	RCRA-SQG, ENVIROSTOR, FINDS, ECHO	2746	0.520	North
96 / 1	ARCO STATION #760	225 SOUTH CHEROKEE	Notify 65	2787	0.528	West
97 / 1	OVERHEAD/LODI DOOR C		WMUDS/SWAT, Toxic Pits	3023	0.573	NNW
98 / 9	ARCO STATION #2076	800 EAST KETTLEMAN L	Notify 65	5260	0.996	West

Key Map - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1 1/2 3 Miles

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22 8:54 AM

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	2	1	1	NR	4
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	2	10	NR	NR	12
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500	1	0	2	1	NR	NR	4
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		5	4	NR	NR	NR	9
AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	1	0	NR	NR	1
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		6	7	NR	NR	NR	13
Toxic Pits	1.000		0	0	0	1	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		3	4	NR	NR	NR	7
HIST UST	0.250		12	14	NR	NR	NR	26
CERS TANKS	0.250		1	1	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST	0.250		3	4	NR	NR	NR	7
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		10	11	NR	NR	NR	21
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	2	9	NR	NR	11
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	2	7	NR	NR	9
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	2	NR	2
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP	1	NR	NR	NR	NR	NR	1
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		3	43	61	28	4	0	139

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

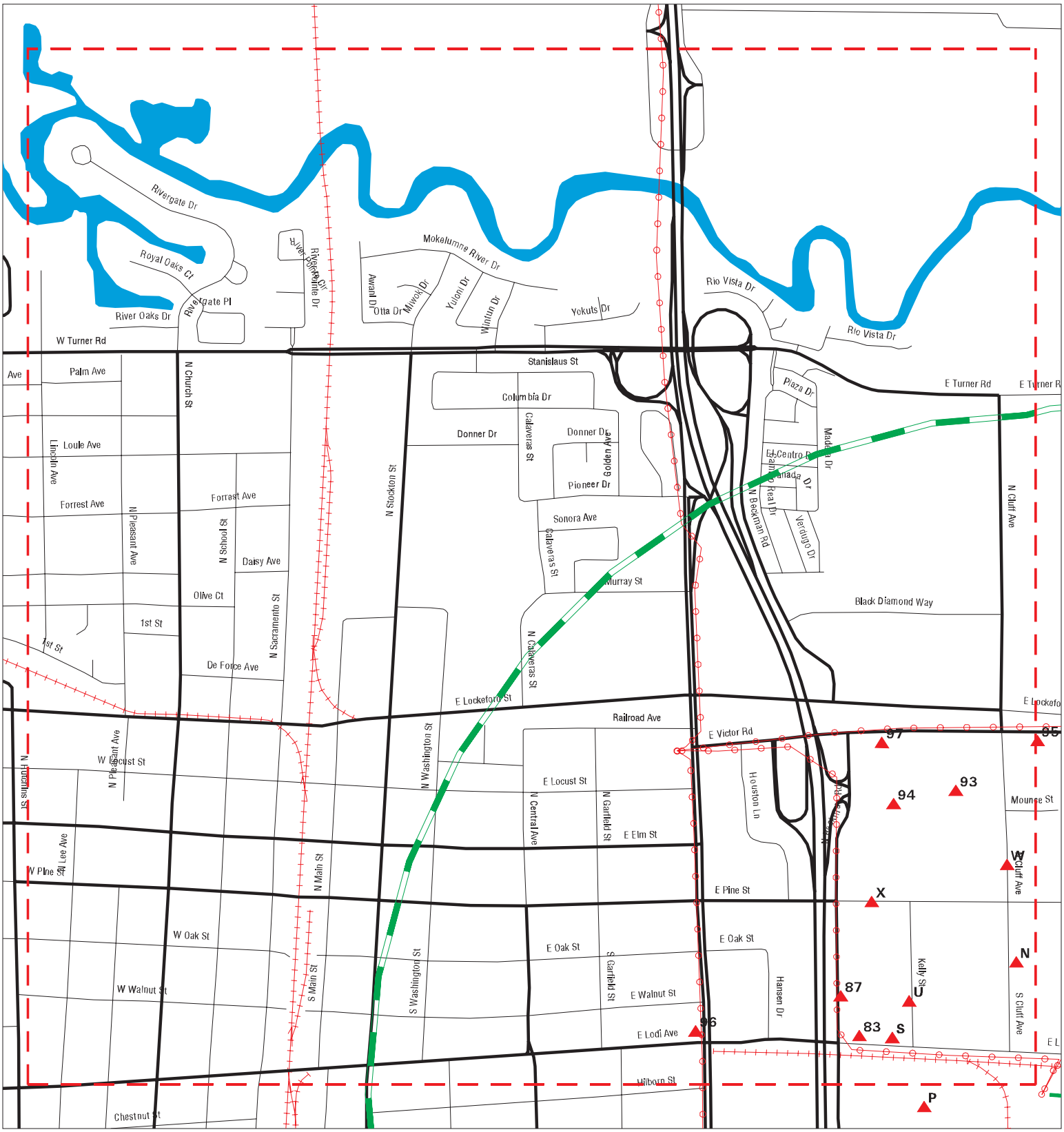
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22

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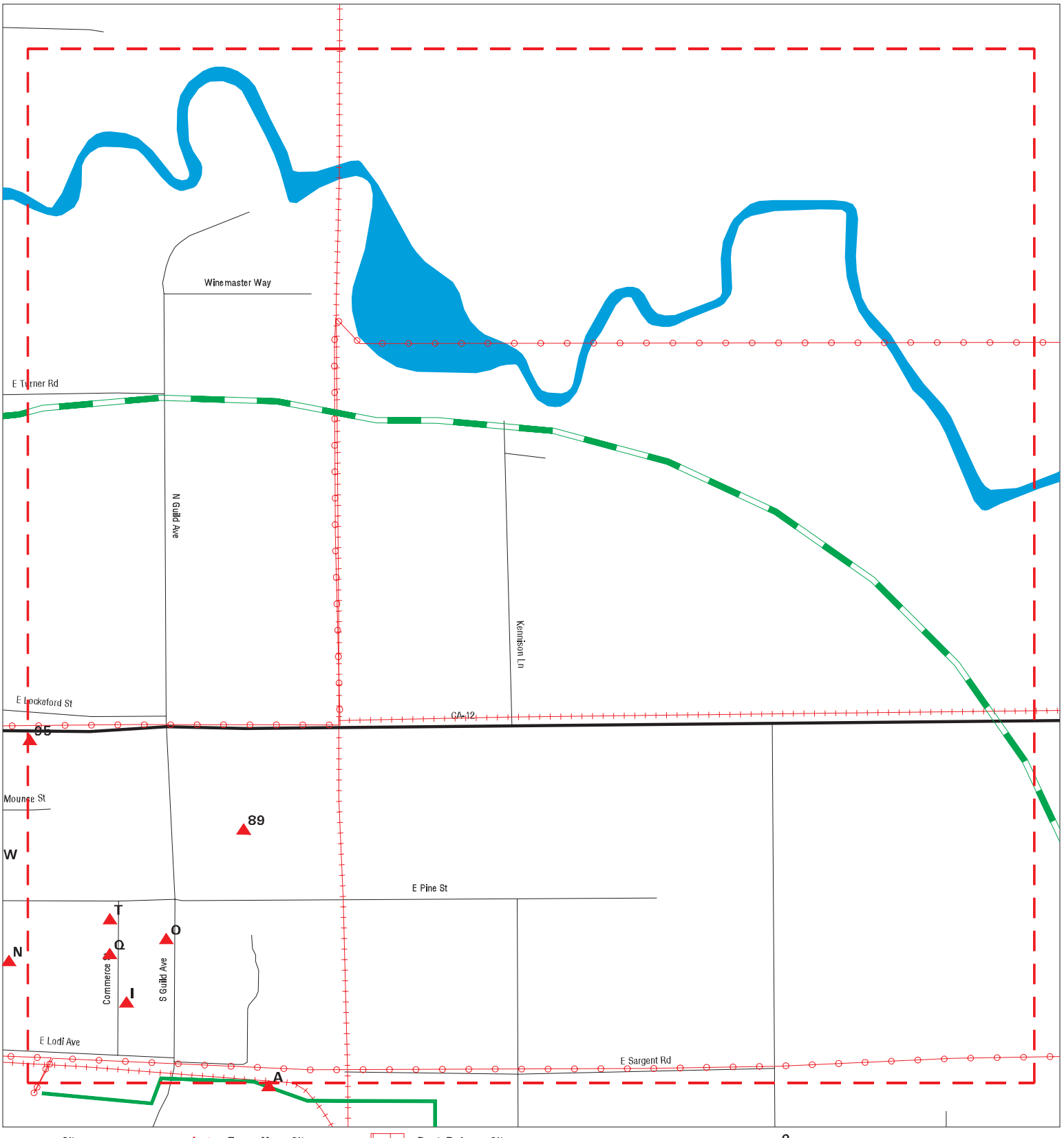
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
N54 / 1	B & G INDUSTRIES, S.	100 CLUFF RD S	CPS-SLIC	911	0.173	North
N56 / 1	B & G INDUSTRIES	100 S CLUFF AVE	ENVIROSTOR	937	0.177	NNW
N57 / 1	B&G INDUSTRIES, S.B.	100 SOUTH CLUFF AVE	CPS-SLIC, CERS	937	0.177	NNW
N58 / 1	B&G INDUSTRIES	100 S CLUFF AVE	SEMS-ARCHIVE	937	0.177	NNW
N67 / 1	TOKAY VALLEY RECYCLI	60 S CLUFF AVE	SWRCY, NPDES, CERS	1062	0.201	NNW
S74 / 1	SHANDS DIESEL TRUCK	885 E LODI AVE A	CERS HAZ WASTE, CERS	1299	0.246	WNW
S75 / 1	SHANDS DIESEL TRUCK	885 E LODI AVE	RCRA NonGen / NLR	1299	0.246	WNW
U80 / 1	HEARTLAND STEEL PROD	213 S KELLY ST	UST	1309	0.248	NW
U81 / 1	LODI METAL TECH,INC	213 SO. KELLY STREET	RCRA-LQG, ENVIROSTOR, LUST, CERS HAZ WAS	1309	0.248	NW
S82 / 1	LODI READY MIX	851 LODI AVE E	LUST, Cortese, CERS	1383	0.262	WNW
83 / 1	LODI READY MIX & BUI	851 E LODI AVE	HIST UST, HIST CORTESE	1544	0.292	WNW
W86 / 1	PINKERTON FOUNDRY	32 N CLUFF	ENVIROSTOR, EMI	1697	0.321	North
87 / 1	S.J. MOSQUITO ABATEM	200 BECKMAN	LUST, Cortese, HIST CORTESE, CERS	1791	0.339	WNW
W88 / 1	AMERICAN DUTCH FOUND	42 CLUFF	LUST, Cortese, HIST CORTESE, CERS	1815	0.344	North
X90 / 1	KISHIDA PROPERTY	860 E. PINE STREET	CPS-SLIC, CERS	1957	0.371	NW
X91 / 1	CAL TRANS LODI MAINT	845 PINE ST E	LUST, Cortese, CERS	2036	0.386	NW
93 / 1	DON KELLER TRUCKING	940 VICTOR	LUST, Cortese, HIST CORTESE, CERS	2469	0.468	NNW
94 / 1	TERESI TRUCKING LLC	900 1/2 VICTOR ROAD	RCRA-LQG, LUST, SWEEPS UST, FINDS, ECHO,...	2560	0.485	NNW
96 / 1	ARCO STATION #760	225 SOUTH CHEROKEE	Notify 65	2787	0.528	West
97 / 1	OVERHEAD/LODI DOOR C		WMUDS/SWAT, Toxic Pits	3023	0.573	NNW

Focus Map - 2 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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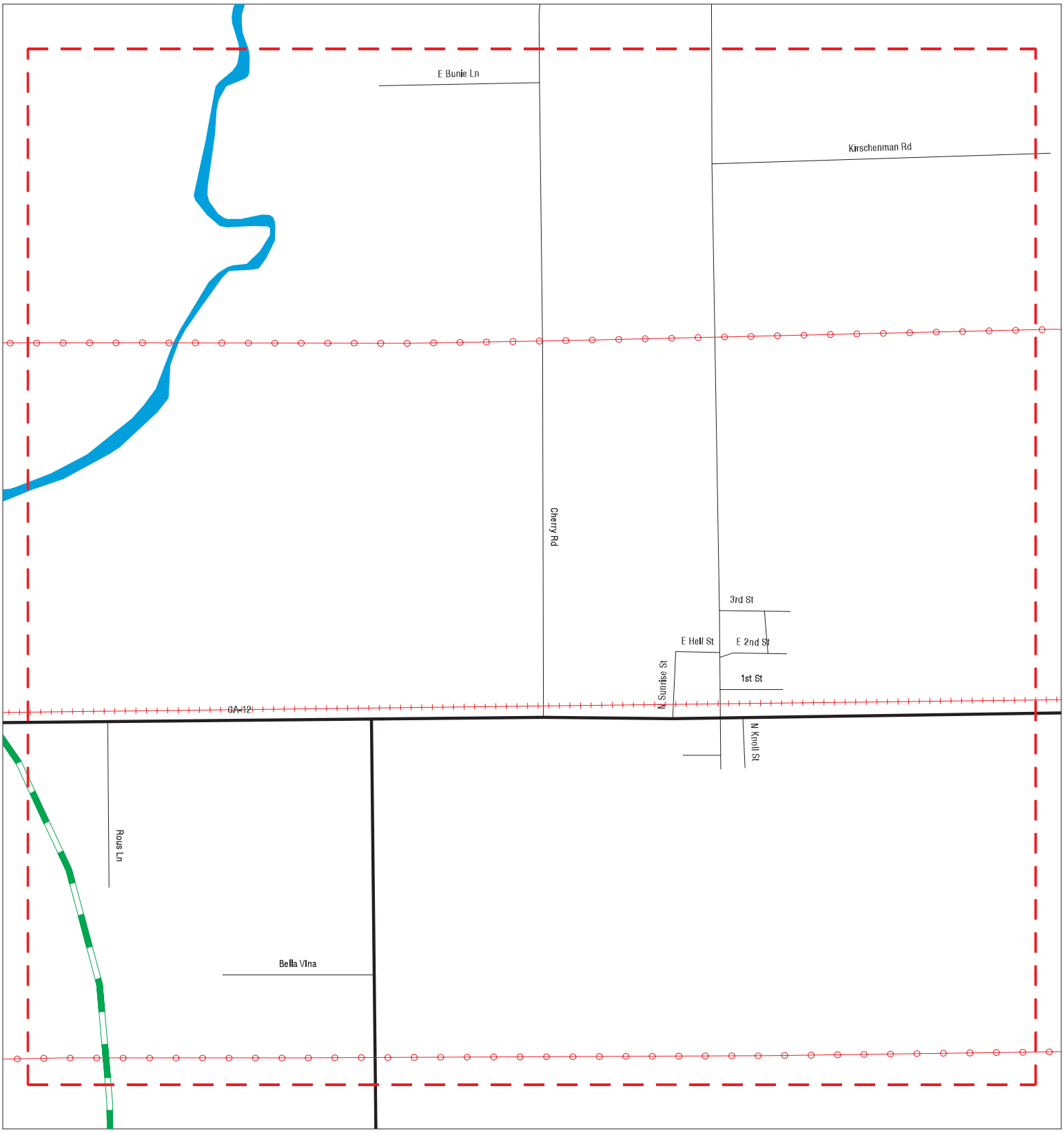
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
I32 / 2	WESTSIDE GARAGE AUTO	226 COMMERCE ST S	EDR Hist Auto	575 0.109 NW
I40 / 2	JOES AUTOMOTIVE OF L	200 COMMERCE ST #101	CERS HAZ WASTE, CERS	651 0.123 NNW
O55 / 2	FWS CONSTRUCTION	111 S GUILD AVE	RCRA NonGen / NLR	935 0.177 North
Q65 / 2	GUARANTEE REPAIR SER	101 COMMERCE ST	CERS HAZ WASTE, CERS	1048 0.198 NNW
Q66 / 2	GUARANTEE REPAIR SER	101 COMMERCE ST	RCRA NonGen / NLR	1048 0.198 NNW
O68 / 2	CENTRAL VALLEY PAINT	67 S GUILD AVE	RCRA NonGen / NLR	1088 0.206 North
T76 / 2	BUSHCO PRECISION MAC	21 COMMERCE ST	RCRA NonGen / NLR	1302 0.247 NNW
T77 / 2	BUSHCO PRECISION	21 COMMERCE ST	RCRA NonGen / NLR	1302 0.247 NNW
89 / 2	PART CONTAINER CORP	1400 VICTOR	LUST, CHMIRS, Cortese, HIST CORTESE, CER...	1956 0.370 North
95 / 2	LODI DOOR INC	1220 VICTOR RD	RCRA-SQG, ENVIROSTOR, FINDS, ECHO	2746 0.520 North

Focus Map - 3 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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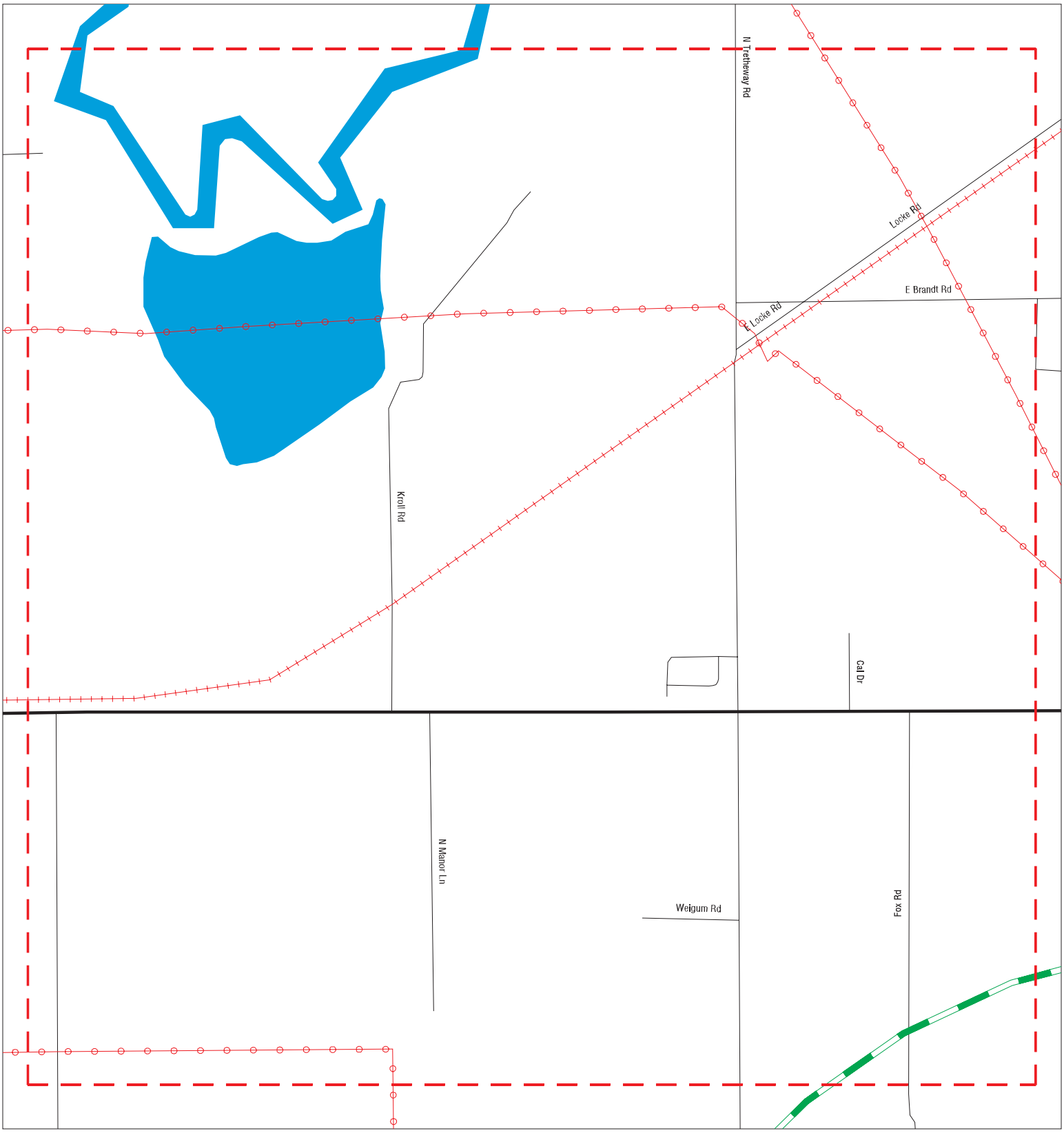
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 5 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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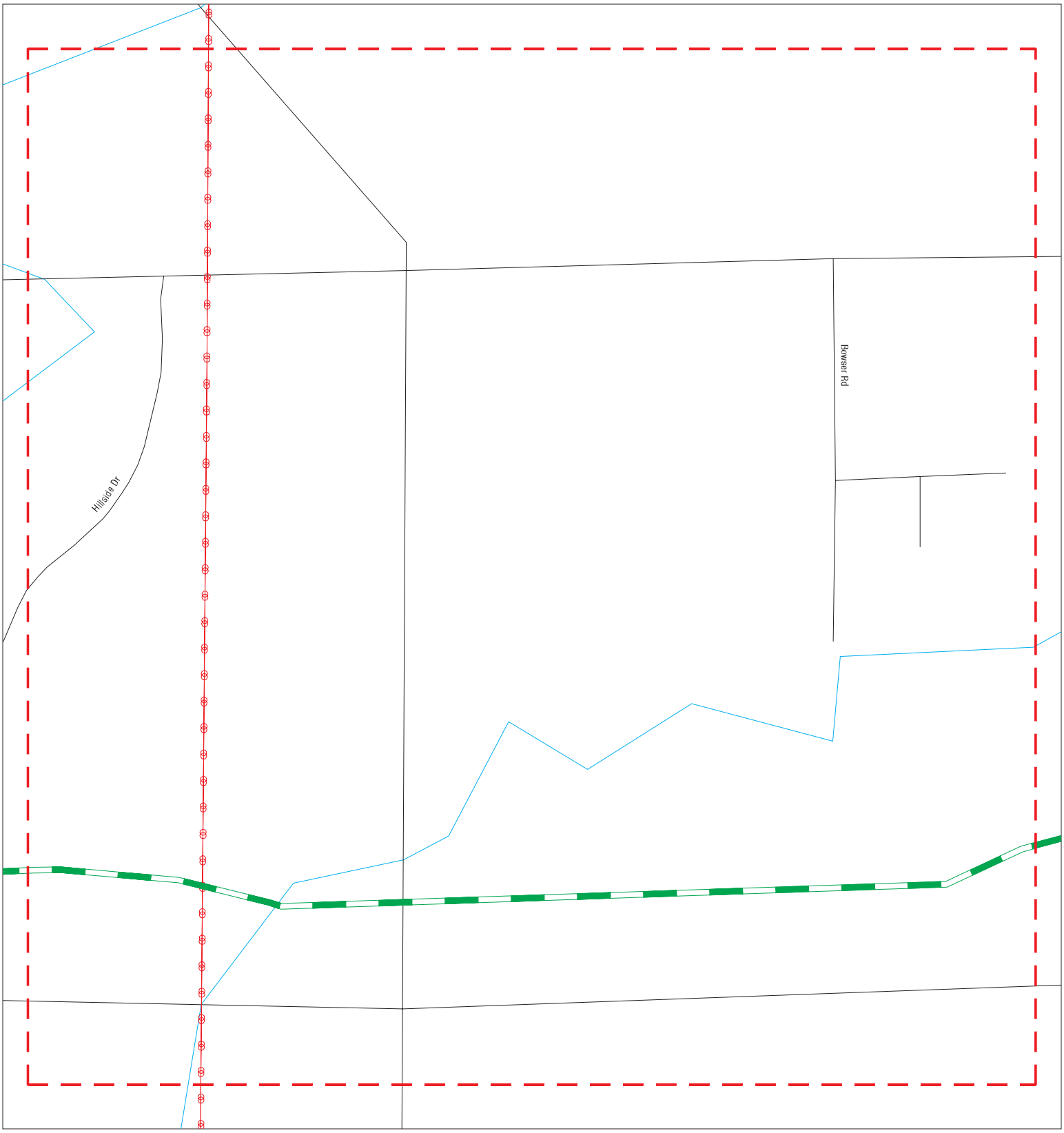
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 6 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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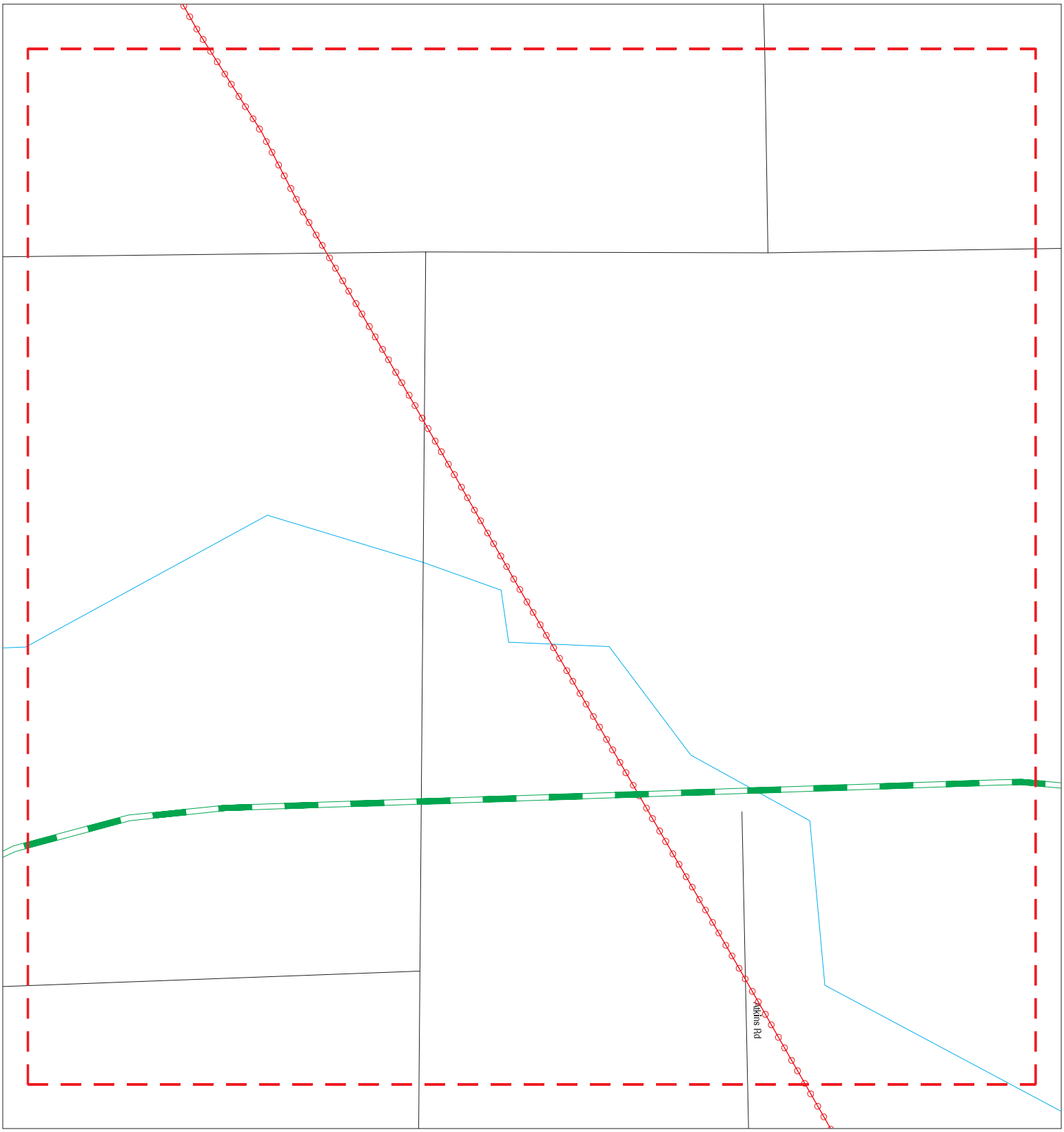
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 7 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22

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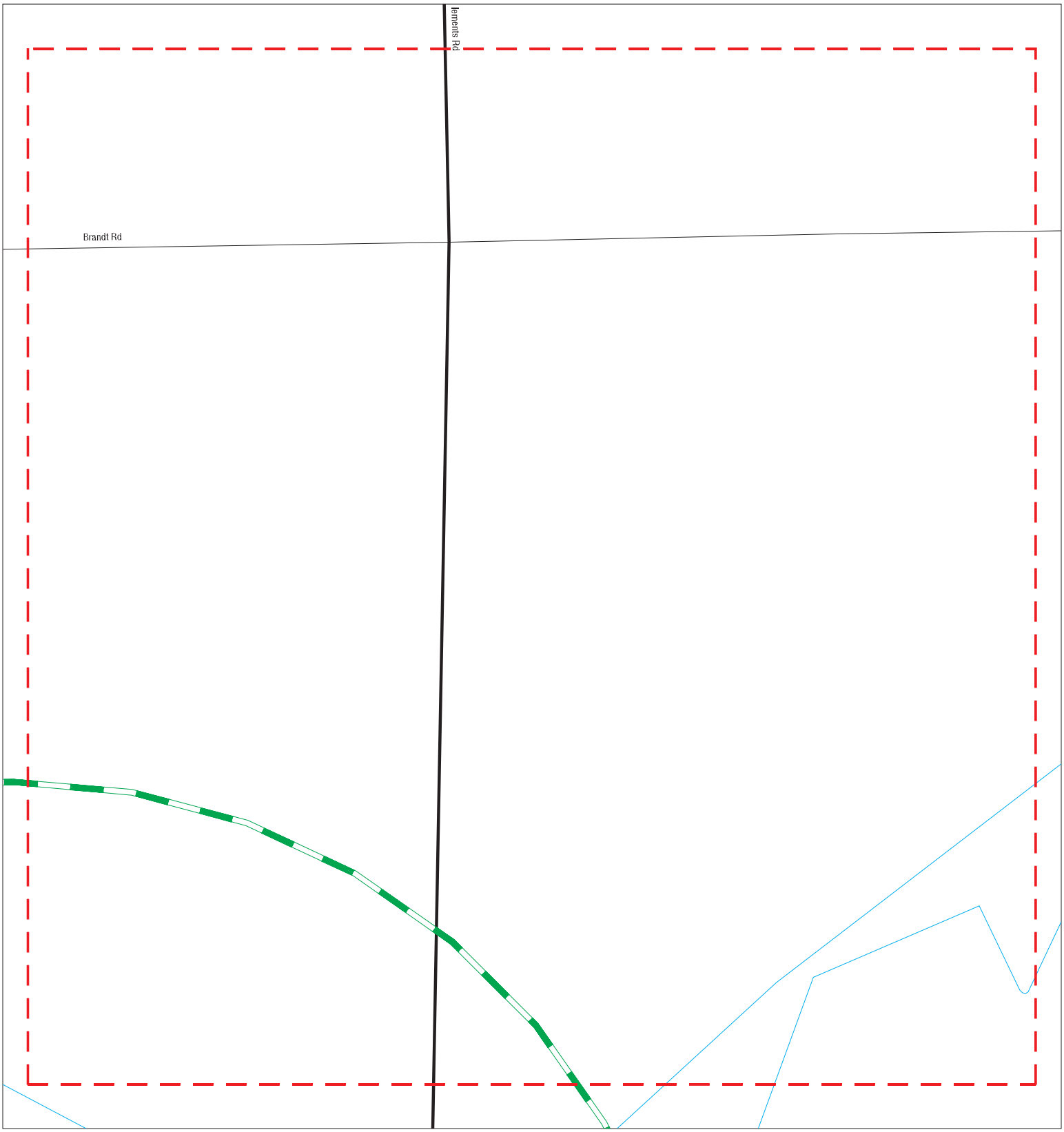
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 8 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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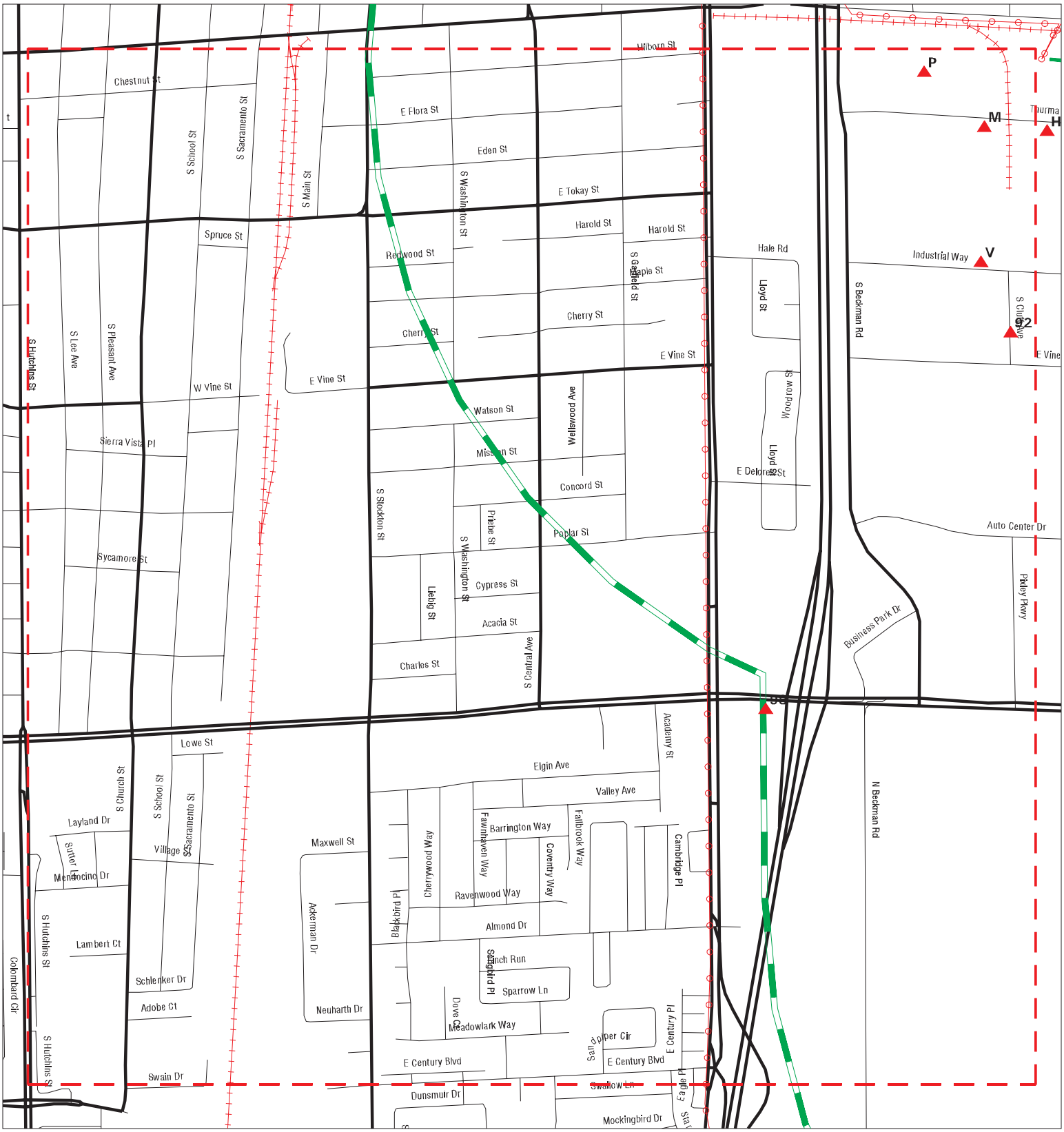
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 9 - 7105771.1s



SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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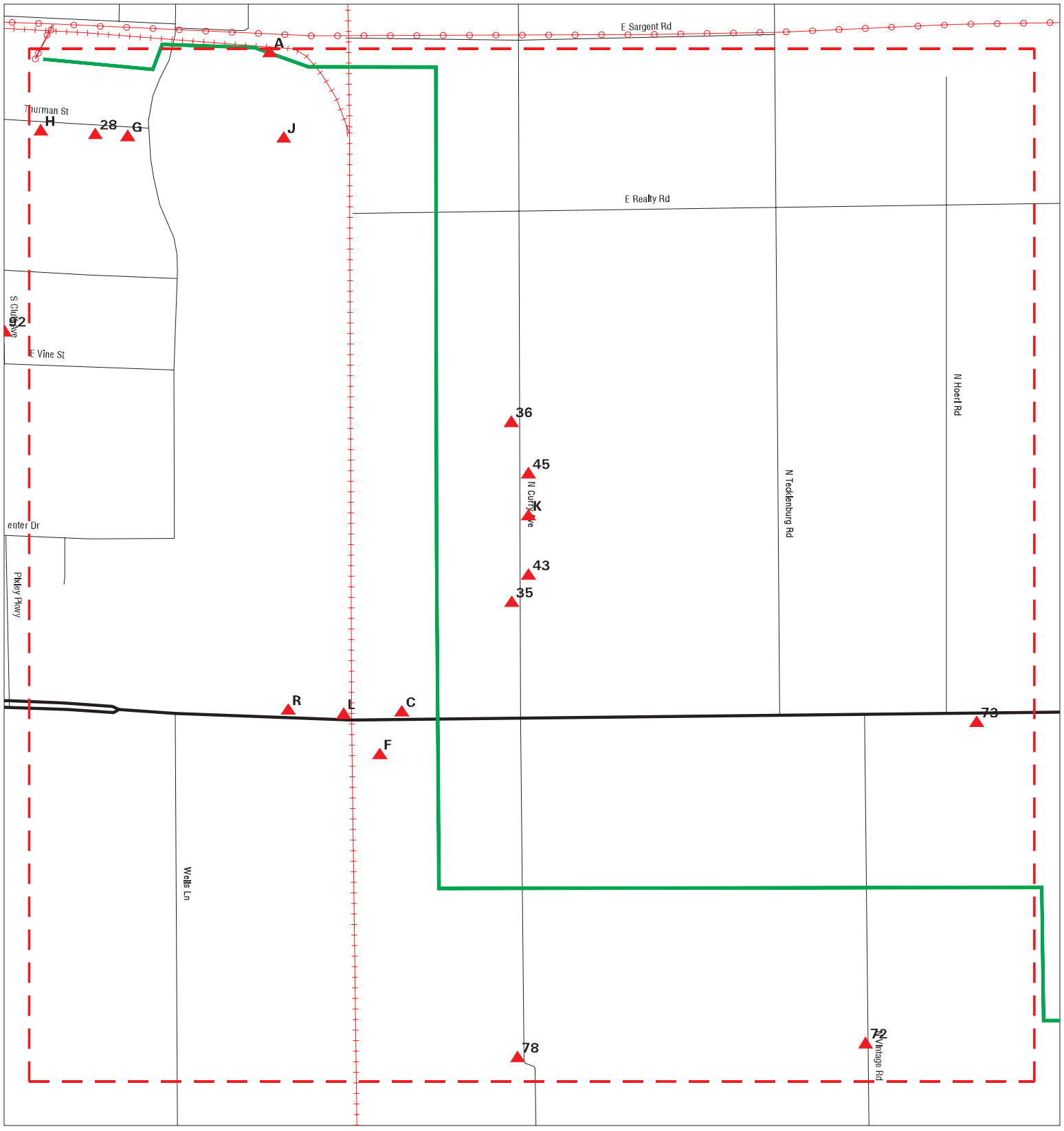
MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
M50 / 9	SWEETENER PRODUCTS I	1150 E THURMAN ST	CERS HAZ WASTE, CERS, HWTS	724	0.137	SW
M51 / 9	SWEETENER PRODUCTS I	1150 E THURMAN ST	RCRA NonGen / NLR	724	0.137	SW
P59 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	AST	977	0.185	West
P60 / 9	TRIANGLE PACIFIC COR	300 S BECKMAN RD	UST	977	0.185	West
P61 / 9	CERTAINTEED CORP	300 SOUTH BECKMAN RO	RCRA-SQG, SWEEPS UST, HIST UST, CA FID U...	977	0.185	West
P62 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	977	0.185	West
P63 / 9	NORTH AMERICAN SPECI	300 S BECKMAN RD	RCRA NonGen / NLR	977	0.185	West
V84 / 9	LODI LUMBER CO	1025 INDUSTRIAL	LUST, HIST UST, HIST CORTESE	1653	0.313	SSW
V85 / 9	LODI LUMBER CO	1025 INDUSTRIAL WAY	LUST, Cortese, CERS	1653	0.313	SSW
92 / 9	LUSD TRANSPORTATION	820 CLUFF	LUST, Cortese, HIST CORTESE, CERS	2130	0.403	South
98 / 9	ARCO STATION #2076	800 EAST KETTLEMAN L	Notify 65	5260	0.996	West

Focus Map - 10 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22

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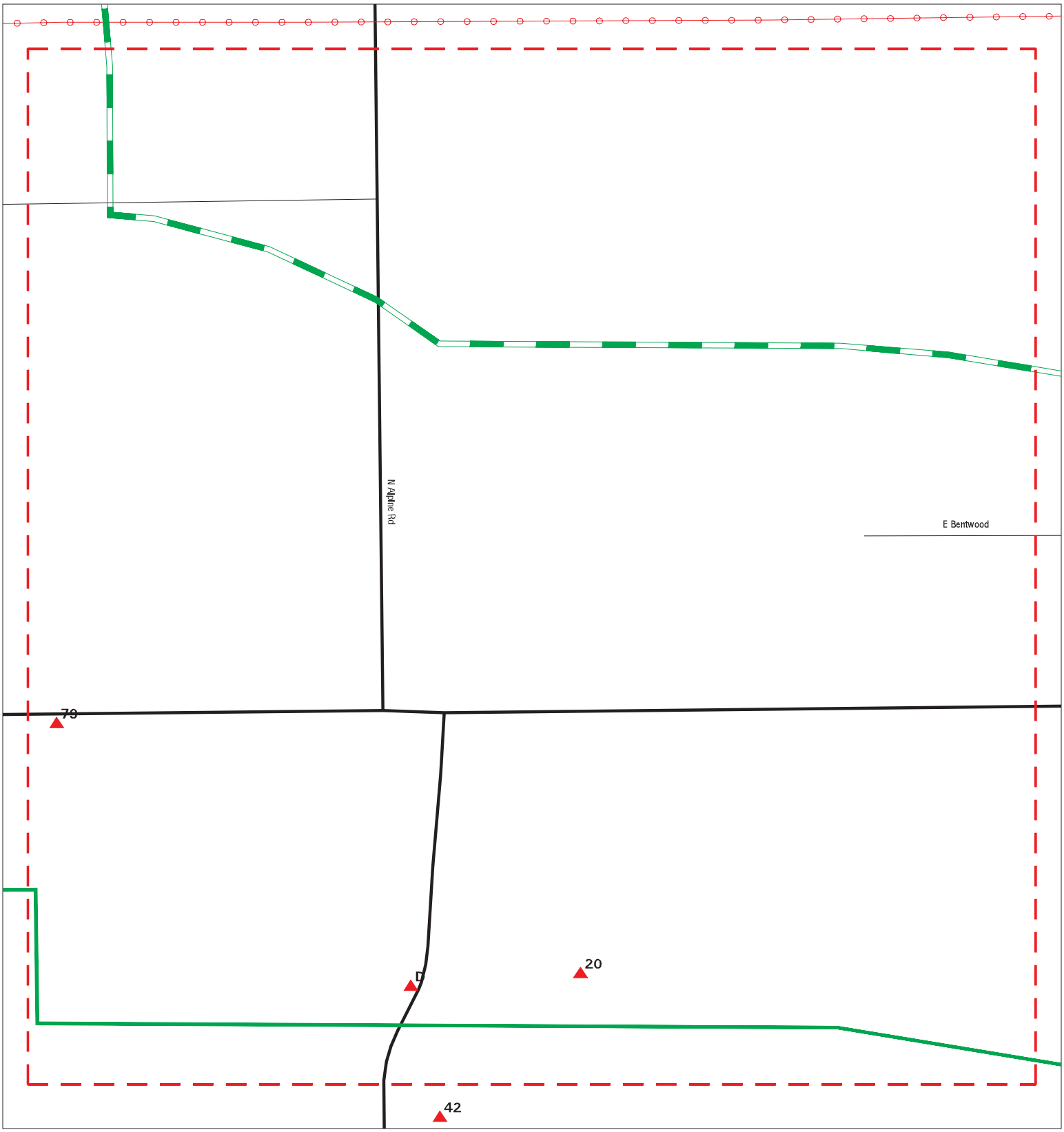
MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
A1 / 10	CENTRAL CALIFORNIA T	305 S GUILD AVE	FINDS	TP		
A2 / 10	CENTRAL CALIFORNIA T	305 S GUILD AVE	CPS-SLIC, CERS	TP		
C7 / 10	LODI COLD STORAGE	6021 E KETTLEMEN	HIST UST	279	0.053	West
C8 / 10	LODI COLD STORAGE	6021 E KETTLEMAN LN	HIST UST	279	0.053	West
C9 / 10	DELTA PACKING CO	6021 E KETTLEMEN LN	RCRA NonGen / NLR	279	0.053	West
C10 / 10	DELTA PACKING CO. OF	6021 E KETTLEMAN LAN	CERS HAZ WASTE, EMI, NPDES, CIWQS, CERS	279	0.053	West
C15 / 10	SSHP COLD STORAGE, L	6030 E KETTLEMAN LN	CERS HAZ WASTE, CERS	384	0.073	West
C16 / 10	SILVESTRES MECHANICA	6030 E KETTLEMAN LN	RCRA NonGen / NLR	384	0.073	West
F21 / 10	BREA AGRICULTURAL IN	6042 E KETTLEMAN LN	UST	451	0.085	West
F22 / 10	BREA AGRICULTURAL SE	6042 E KETTLEMAN LN	UST	451	0.085	West
F23 / 10	CROP PRODUCTION SERV	6042 E KETTLEMAN LN	RCRA NonGen / NLR	451	0.085	West
F24 / 10	WESTERN FARM SVC - L	6042 E. KETTLEMAN RD	RCRA-SQG, FINDS, ECHO	451	0.085	West
G25 / 10	CEPHEID	1330 E THURMAN RD	RCRA NonGen / NLR	528	0.100	South
G26 / 10	R & L CARRIERS	1330 THURMAN ST	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CE...	528	0.100	South
G27 / 10	AMERICAN MASTER TECH	1330 THURMAN ST	RCRA NonGen / NLR	528	0.100	South
28 / 10	SCIENTIFIC SPECIALTI	1310 THURMAN ST	RCRA NonGen / NLR	536	0.102	South
H29 / 10	SCHAEFER SYTEMS LLC	1250 E THURMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	547	0.104	South
H30 / 10	SCHAEFER SYSTEMS LLC	1250 E THURMAN RD	RCRA NonGen / NLR	547	0.104	South
H31 / 10	SCHAEFER SYTEMS LLC	1250 E THURMAN RD	AST	547	0.104	South
J33 / 10	PACIFIC COAST PRODUC	650 SO GUILD AVE	RCRA NonGen / NLR	576	0.109	SSW
J34 / 10	PACIFIC COAST PRODUC	650 S GUILD	CERS HAZ WASTE, CERS	576	0.109	SSW
35 / 10	A J HANDEL JR	15277 N CURRY AVE	HIST UST	581	0.110	East
36 / 10	GEORGE IWAMIYA	15661 N CURRY AVE	HIST UST	582	0.110	East
K37 / 10	RICHARD D DIEKMAN	15415 N CURRY AVE	HIST UST	583	0.110	East
43 / 10	GLENN C NOMA	15308 N CURRY AVE	HIST UST	713	0.135	East
K44 / 10	GEORGE PERLEGOS	15506 N. CURRY AVE.	RCRA NonGen / NLR	714	0.135	East
45 / 10	GARETH E HOSMER	15542 NO CURRY AVE	HIST UST	714	0.135	East
L46 / 10	DELTA PACKING CO	5950 KETTLEMAN LN E	LUST, CHMIRS, Cortese, HIST CORTESE, CER...	723	0.137	West
L47 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LAN	CERS HAZ WASTE, SWEEPS UST, HIST UST, CA...	723	0.137	West
L48 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LN	HIST UST	723	0.137	West
L49 / 10	DELTA PACKING COMPAN	5950 E KETTLEMAN LN	UST	723	0.137	West
L52 / 10	BREA AGRI SERV INC	5991 E KETTLEMAN LN	SWEEPS UST, HIST UST, CA FID UST, RCRA N...	730	0.138	West
L53 / 10	KETTLEMAN HILLS FACI	35251 OLD SKYLINE RD	AST	768	0.145	West
R69 / 10	D&B JUNGEBLUT	5827 E KETTLEMAN LN	CERS HAZ WASTE, CERS	1159	0.220	West
R70 / 10	DUANE M JUNGEBLUT	5827 F KETTLEMAN LAN	HIST UST	1159	0.220	West
72 / 10	MIA BROWN	14281 VINTAGE ROAD	RCRA NonGen / NLR	1202	0.228	South
73 / 10	LAWRENCE LIPPERT	7362 E KETTLEMAN	HIST UST	1292	0.245	North
78 / 10	FRANKLYN R WENDELL	14199 N CURRY AVE	HIST UST	1306	0.247	South

Focus Map - 11 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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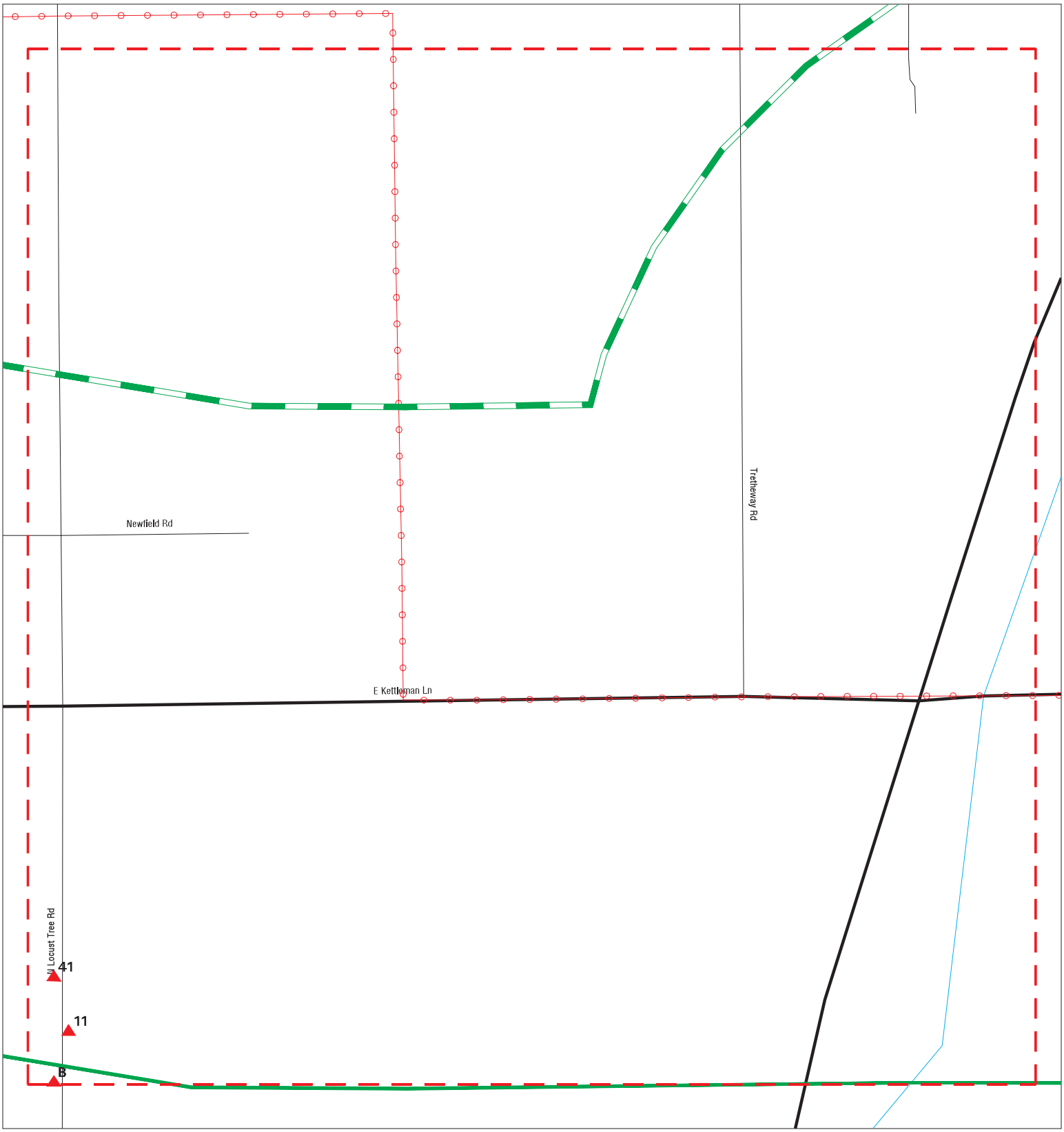
MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
D12 / 11	BGM RANCH	14415 NORTH ALPINE R	HIST UST	312 0.059 North
D13 / 11	GENE MCKNIGHT	14415 N ALPINE ROAD	SWEEPS UST, CA FID UST	312 0.059 North
20 / 11	LW KEARL	14408 NO ALPINE RD	HIST UST	416 0.079 North
79 / 11	PAT HALE	7540 E KETTLEMAN LN	HIST UST	1308 0.248 North

Focus Map - 12 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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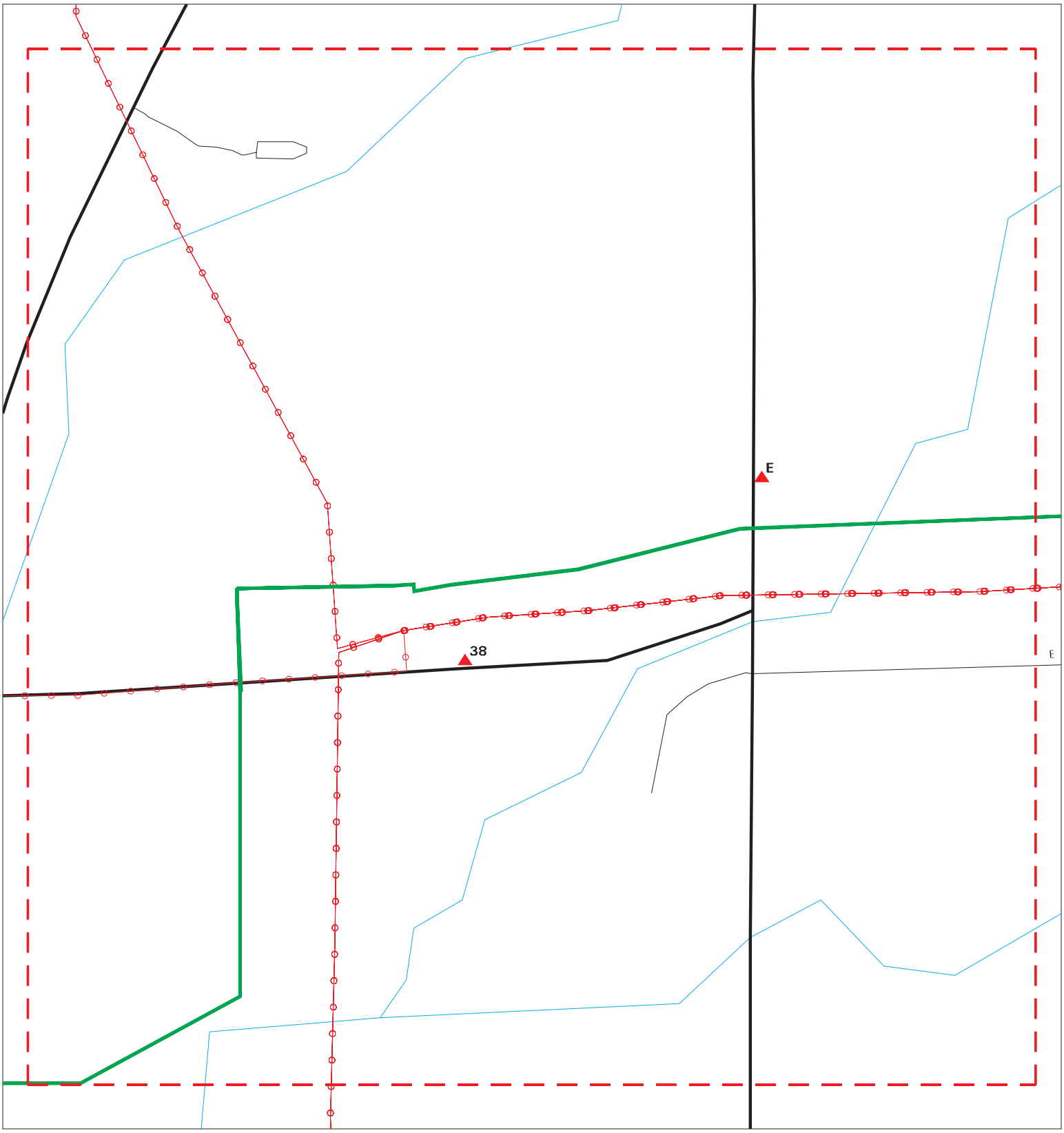
MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
B3 / 12	ERNEST HEKENLAIBLE	14117 N LOCUST TREE	UST	124	0.023	South
B4 / 12	EMIL HECKENLAIBLE	14117 NORTH LOCUST T	HIST UST	124	0.023	South
B5 / 12	EMIL HEKENLAIBLE	14117 N LOCUST TREE	SWEEPS UST, CA FID UST	124	0.023	South
B6 / 12	HECKENLAIBLE FARMS I	14117 N LOCUST TREE	RCRA NonGen / NLR	124	0.023	South
11 / 12	WINSTON C WATSON	14262 N LOCUST TREE	HIST UST	284	0.054	North
41 / 12	HUBERT METTLER	14413 N LOCUST TREE	HIST UST	680	0.129	North

Focus Map - 13 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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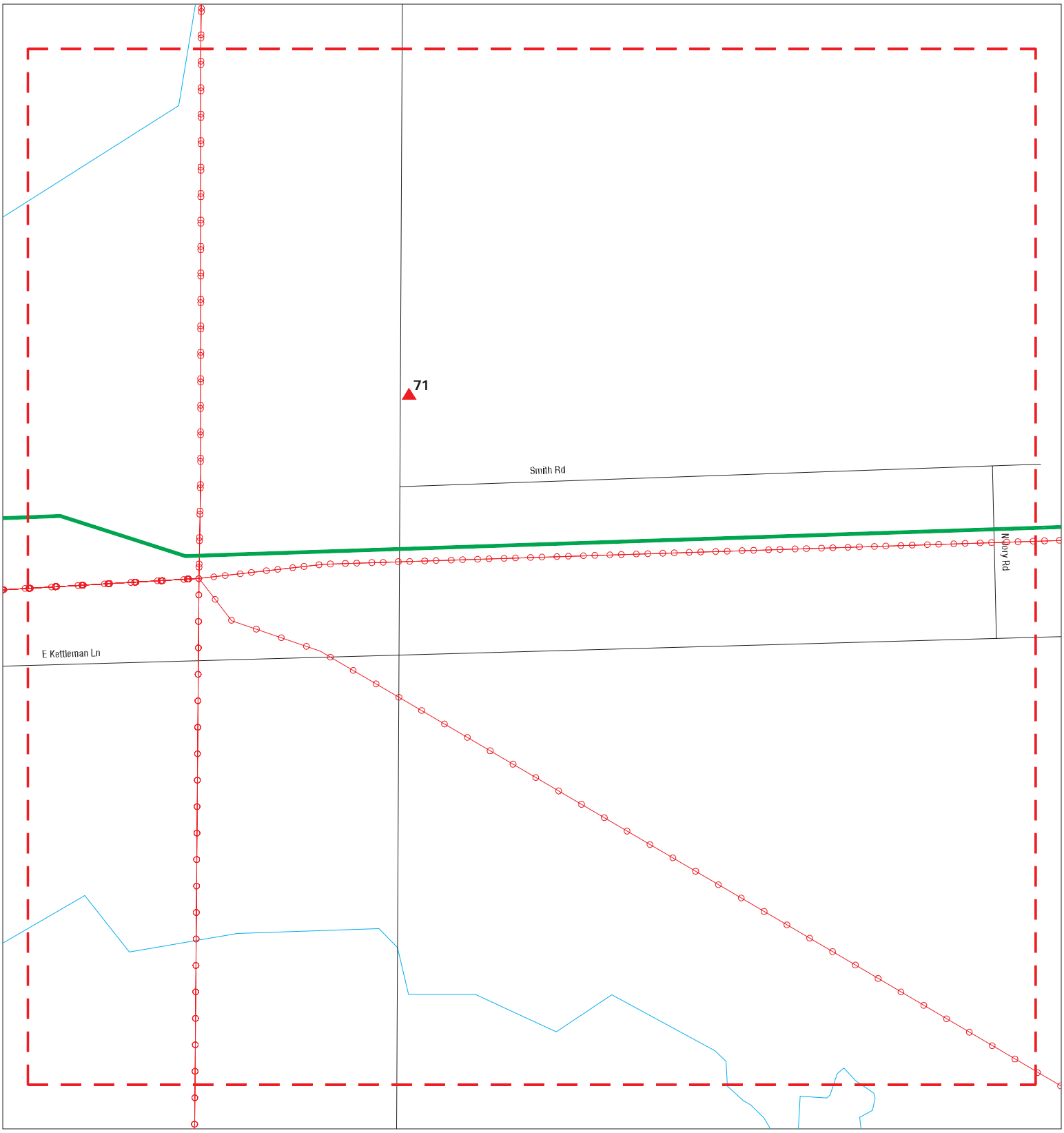
MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
E17 / 13	WILL MCVICKER	15510 N JACK TONE RO	SWEEPS UST, HIST UST, CA FID UST	400	0.076	North
E18 / 13	MCVICKER, WILL	15510 N JACK TONE RD	UST	400	0.076	North
E19 / 13	MCVICKER RANCH	15510M N JACK TONE R	HIST UST	400	0.076	North
38 / 13	PACIFIC GAS & ELECTR	12861 EAST KETTLEMAN	RCRA NonGen / NLR	587	0.111	South

Focus Map - 14 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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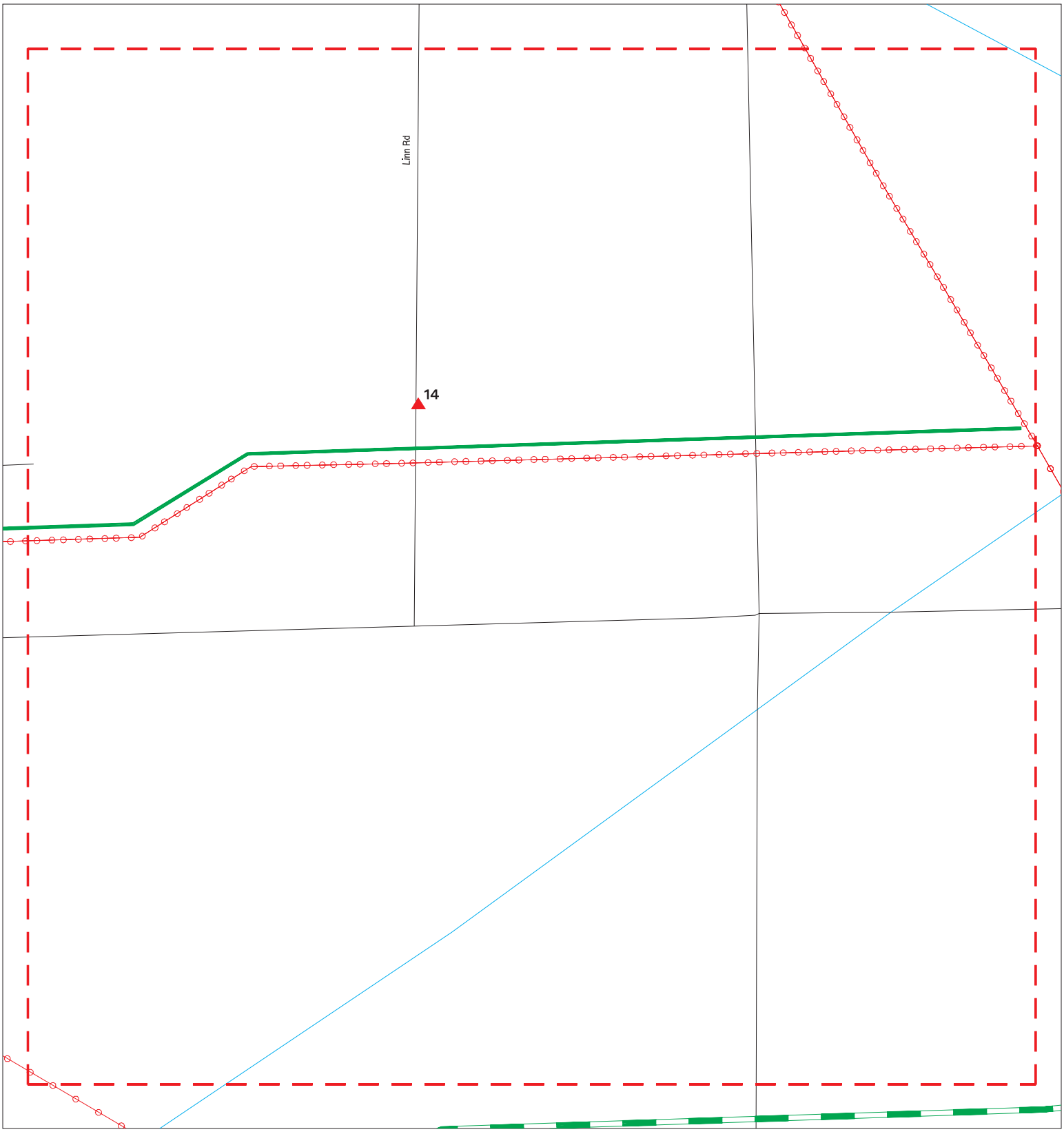
MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
71 / 14	FRANK CANEDA	15760 N TULLY RD	HIST UST	1199 0.227 North

Focus Map - 15 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22

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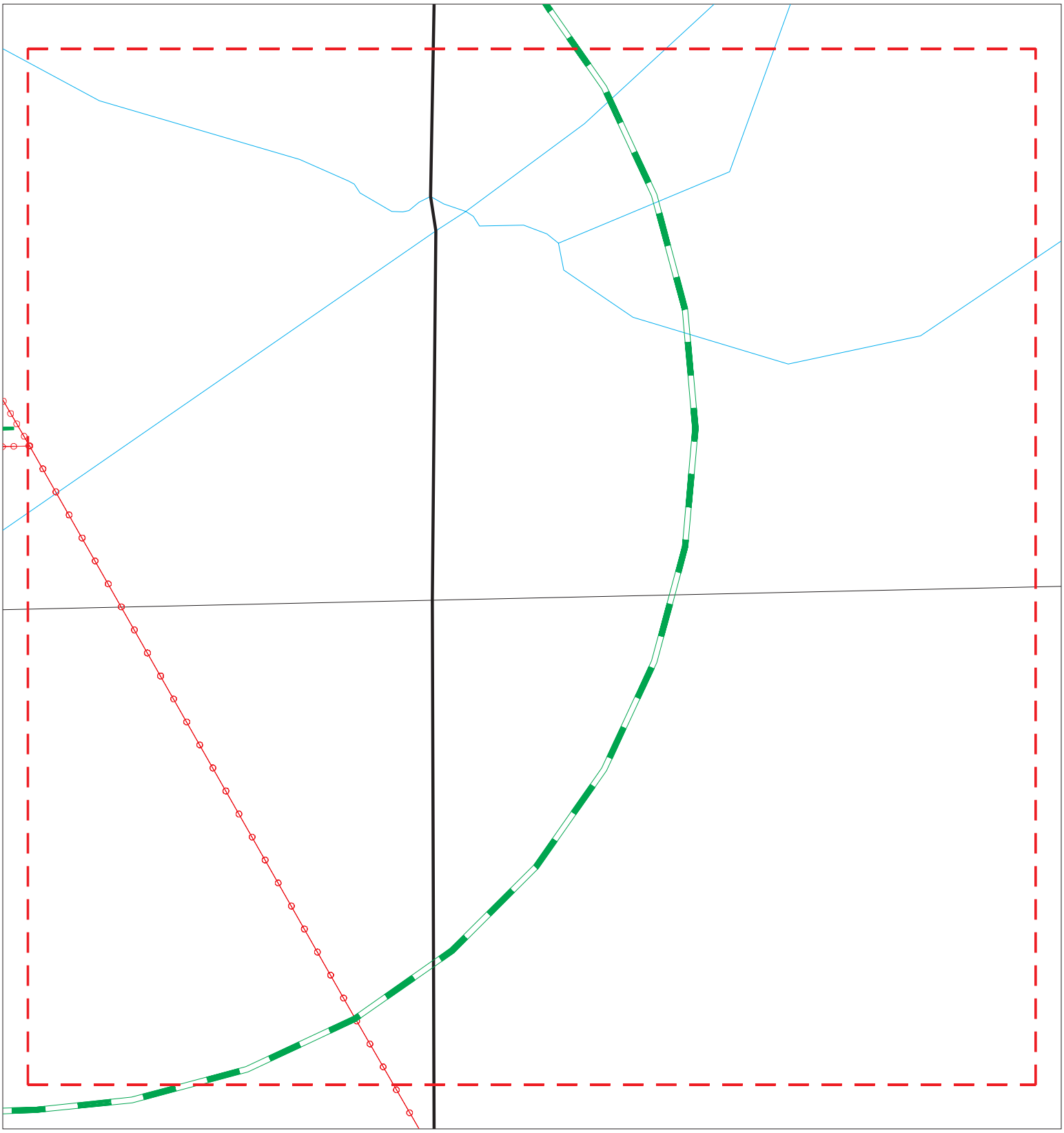
MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
14 / 15	ROBERT & CYNTHIA WEA	15466 N LINN RD	UST	347 0.066 North

Focus Map - 16 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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MAPPED SITES SUMMARY - FOCUS MAP 16

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 17 - 7105771.1s



- Sites
- Target Property
- Search Buffer
- Focus Map - No Sites
- Focus Map - Sites
- Power Line
- National Priority List Sites
- Areas of Concern
- Dept. Defense Sites
- Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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MAPPED SITES SUMMARY - FOCUS MAP 17

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 18 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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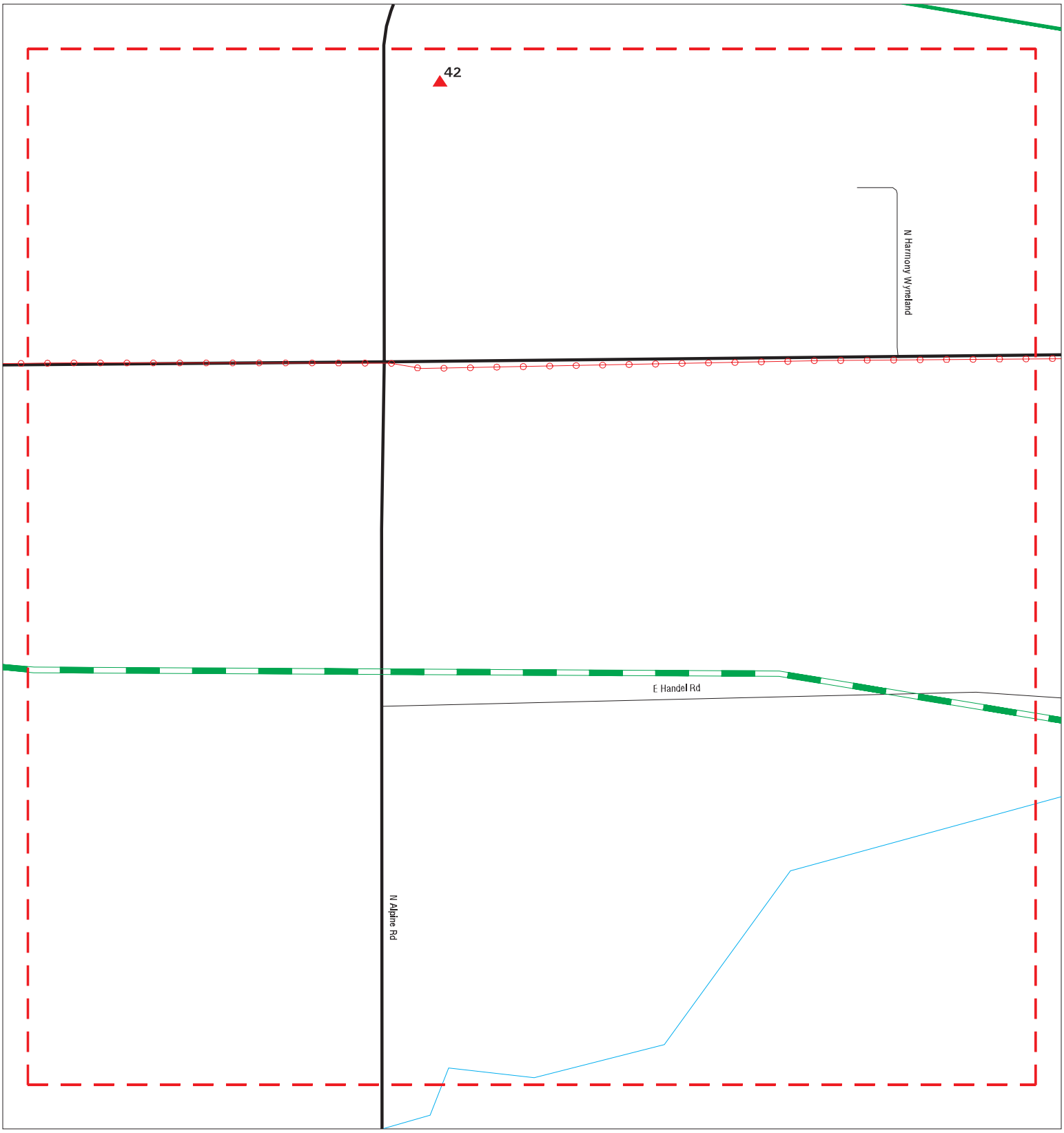
MAPPED SITES SUMMARY - FOCUS MAP 18

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 19 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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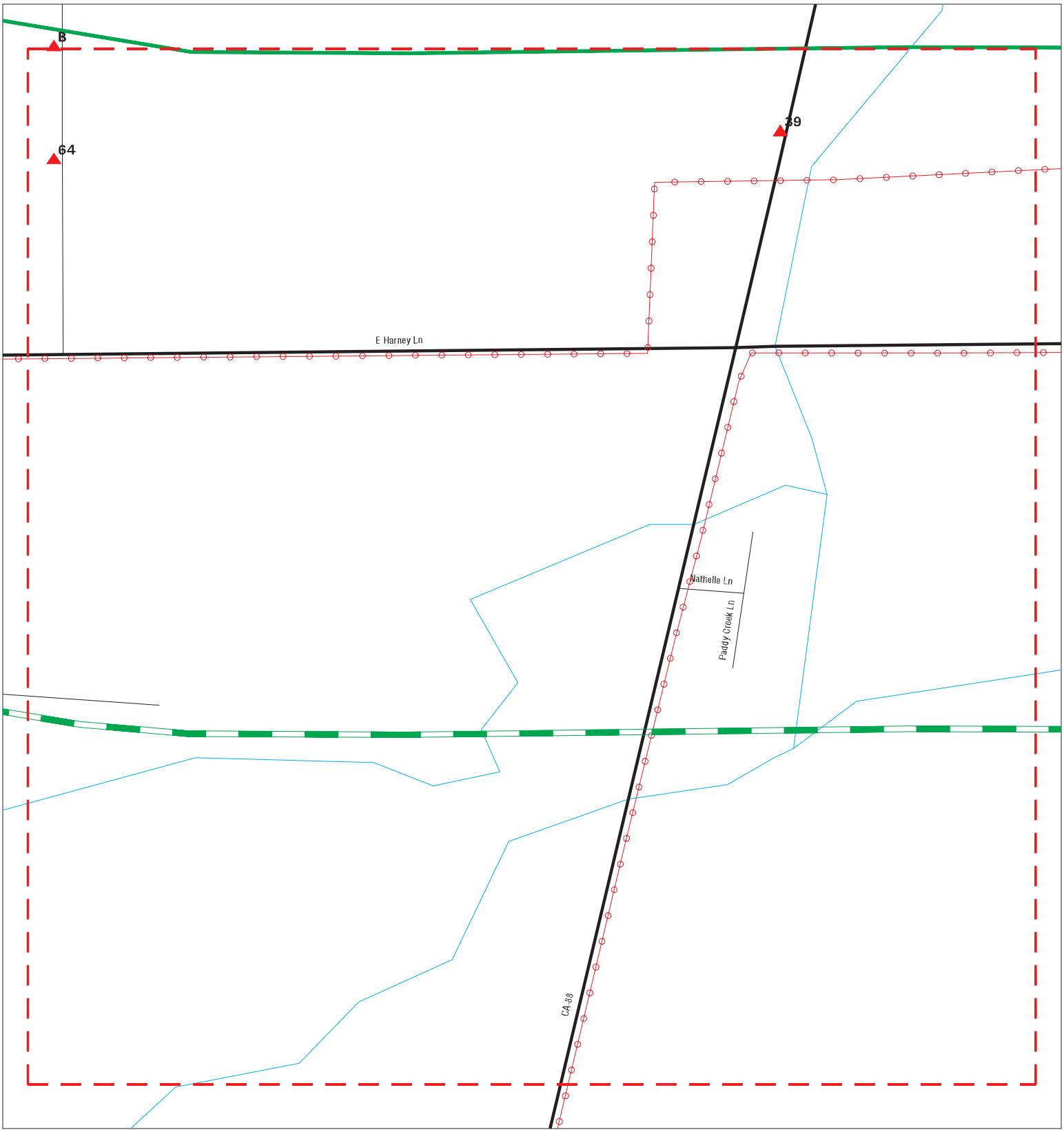
MAPPED SITES SUMMARY - FOCUS MAP 19

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
42 / 19	METTLER PROPERTY	14090 N ALPINE RD	UST	701 0.133 South

Focus Map - 20 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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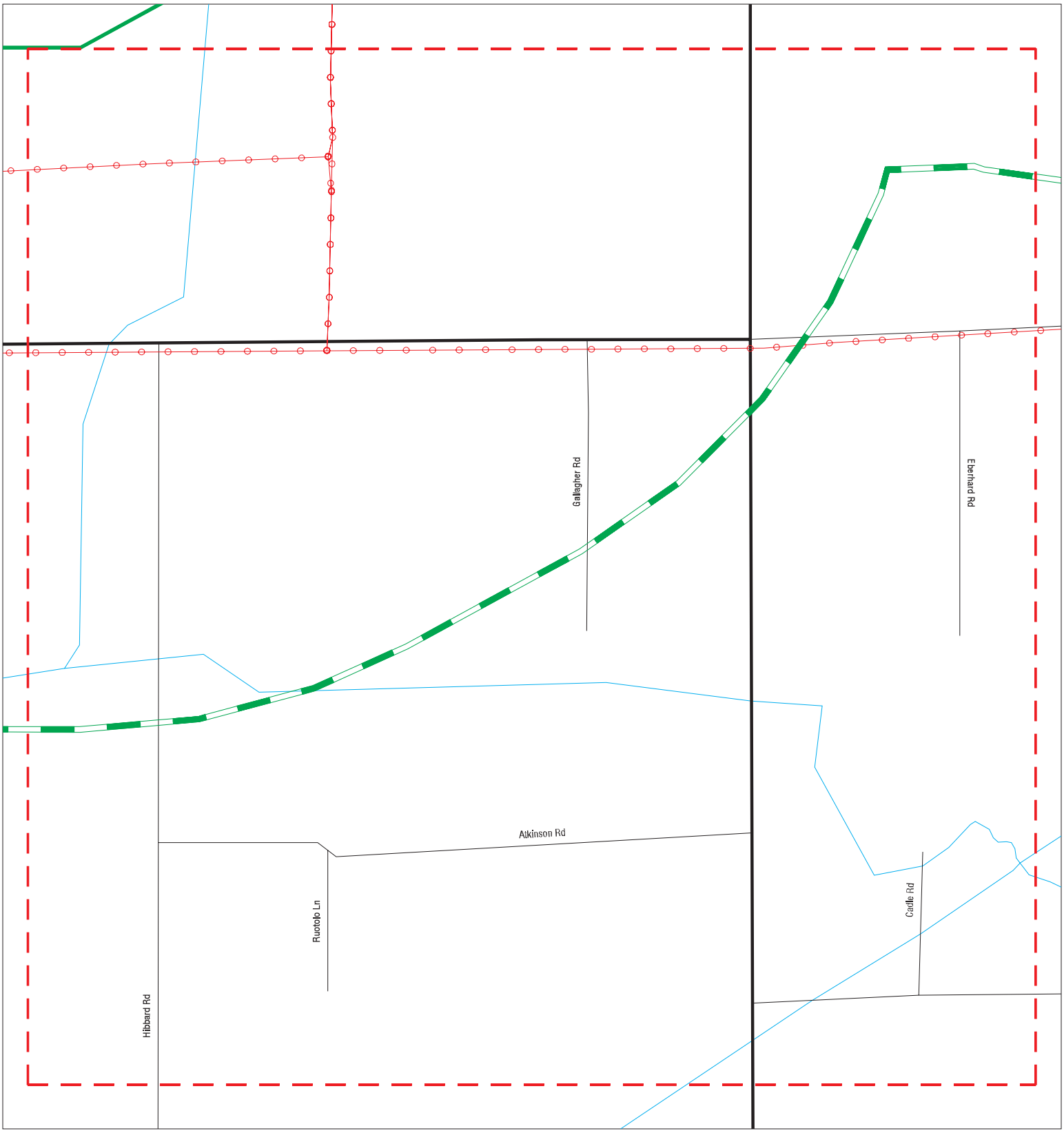
MAPPED SITES SUMMARY - FOCUS MAP 20

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
39 / 20	SHARBOB, INC DBA LOC	13975 N HIGHWAY 88	HIST UST	633	0.120	South
64 / 20	CLYDE C CULBERTSON	13915 N LOCUST TREE	HIST UST	987	0.187	South

Focus Map - 21 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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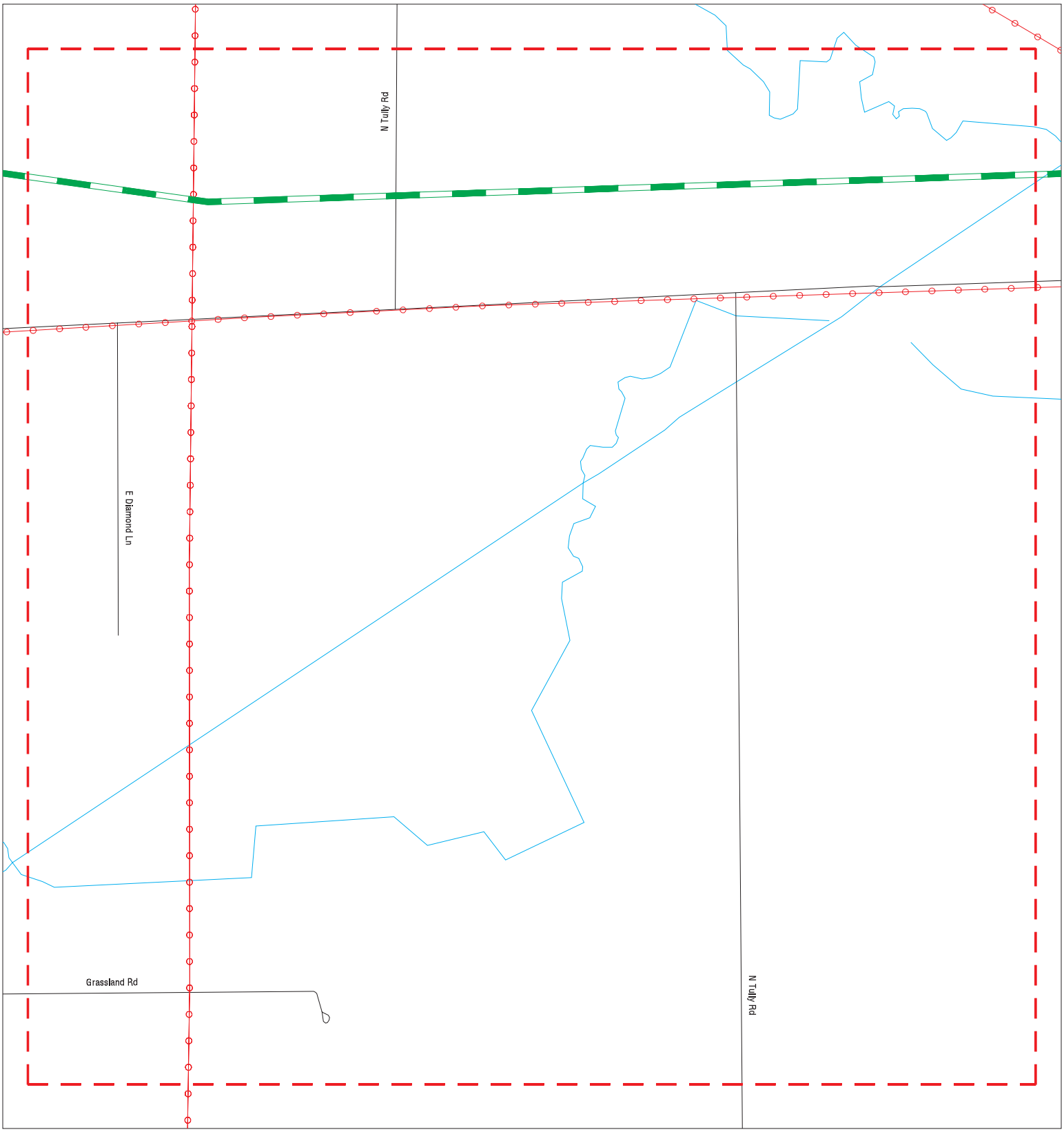
MAPPED SITES SUMMARY - FOCUS MAP 21

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 22 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project	CLIENT: Jacobs
ADDRESS: San Joaquin County	CONTACT: Sarah Madams
CITY/STATE: Lodi CA	INQUIRY #: 7105771.1s
ZIP: 95240	DATE: 09/02/22

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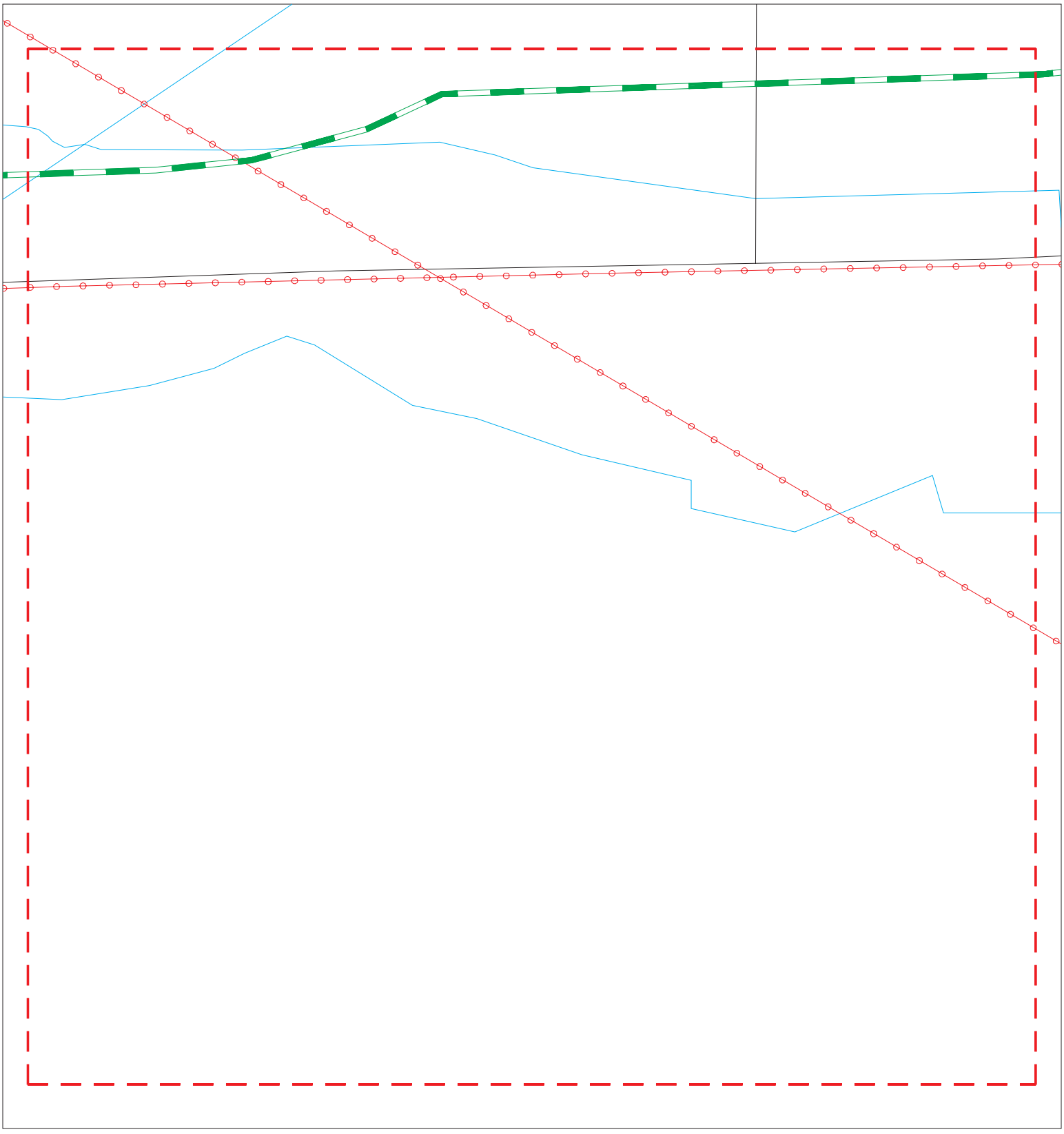
MAPPED SITES SUMMARY - FOCUS MAP 22

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 23 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Northern San Joaquin 230 Kv Transmission Project	CLIENT:	Jacobs
ADDRESS:	San Joaquin County	CONTACT:	Sarah Madams
CITY/STATE:	Lodi CA	INQUIRY #:	7105771.1s
ZIP:	95240	DATE:	09/02/22

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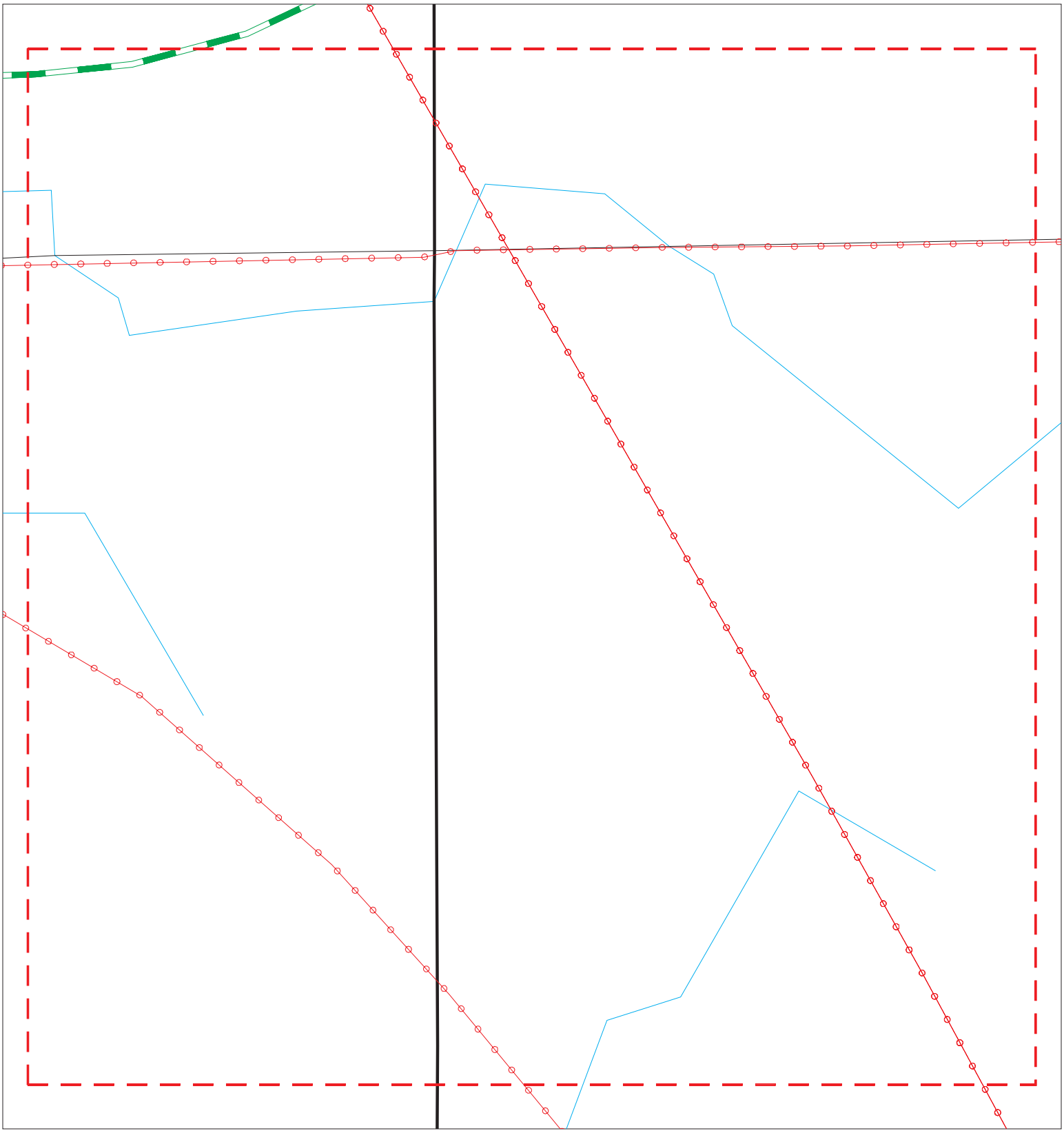
MAPPED SITES SUMMARY - FOCUS MAP 23

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 24 - 7105771.1s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Northern San Joaquin 230 Kv Transmission Project ADDRESS: San Joaquin County CITY/STATE: Lodi CA ZIP: 95240	CLIENT: Jacobs CONTACT: Sarah Madams INQUIRY #: 7105771.1s DATE: 09/02/22

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MAPPED SITES SUMMARY - FOCUS MAP 24

Target Property:
SAN JOAQUIN COUNTY
LODI, CA 95240

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

A1 **CENTRAL CALIFORNIA TRACTION COMPANY** **FINDS** **1023236724**
Target **305 S GUILD AVE** **N/A**
Property **LODI, CA 95240**

Site 1 of 2 in cluster A

Actual: **62 ft.**

FINDS:
Registry ID: 110065242375

Focus Map: **10**

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A2 **CENTRAL CALIFORNIA TRACTION COMPANY** **CPS-SLIC** **S111121318**
Target **305 S GUILD AVE** **CERS** **N/A**
Property **LODI, CA 95240**

Site 2 of 2 in cluster A

Actual: **62 ft.**

Focus Map: **10**

CPS-SLIC:

Name:	CENTRAL CALIFORNIA TRACTION COMPANY
Address:	305 S GUILD AVE
City,State,Zip:	LODI, CA 95240
Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	07/27/2011
Global Id:	T10000003187
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number:	Not reported
Latitude:	38.130314
Longitude:	-121.245418
Case Type:	Cleanup Program Site
Case Worker:	ZZZ
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Regional Board
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	CENTRAL CALIFORNIA TRACTION COMPANY
Address:	305 S GUILD AVE
City,State,Zip:	LODI, CA 95240
Site ID:	249684
CERS ID:	T10000003187
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	zzz - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA

CENTRAL CALIFORNIA TRACTION COMPANY (Continued) **S111121318**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

B3 **ERNEST HEKENLAIBLE** **UST** **U004023797**
South **14117 N LOCUST TREE RD** **N/A**
< 1/8 **LODI, CA 95240**
0.023 mi.
124 ft. **Site 1 of 4 in cluster B**

Actual: UST SAN JOAQUIN:
70 ft.
Name: ERNEST HEKENLAIBLE
Focus Map: Address: 14117 N LOCUST TREE RD
12 City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0005283
Mail Address: 14117 North Locust Tree Road
Mail Address 2: Not reported
Mail Care of: Dwayne Heckenlaible
Mail City,St,Zip: Lodi, CA 95240

Tank Rec ID: TA0501962
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2323
Decode for Program Element: 2323 - ADDITIONAL FARM TANK #1 - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181787
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1081699644
Longitude: -121.1965240408

B4 **EMIL HECKENLAIBLE** **HIST UST** **U001604302**
South **14117 NORTH LOCUST TREE RD** **N/A**
< 1/8 **LODI, CA 95240**
0.023 mi.
124 ft. **Site 2 of 4 in cluster B**

Actual: HIST UST:
70 ft.
Name: EMIL HECKENLAIBLE
Focus Map: Address: 14117 NORTH LOCUST TREE RD
12 City,State,Zip: LODI, CA 95240
File Number: 0002FBDA
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FBDA.pdf
Region: STATE
Facility ID: 00000048395
Facility Type: Other
Other Type: FARM

EMIL HECKENLAIBLE (Continued) **U001604302**

Contact Name: EMIL HECKENLAIBLE
Telephone: 2093686173
Owner Name: EMIL HECKENLAIBLE
Owner Address: 14117 NORTH LOCUST TREE RD
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

B5 **EMIL HEKENLAIBLE** **SWEEPS UST** **S101625687**
South **14117 N LOCUST TREE RD** **CA FID UST** **N/A**
< 1/8 **LODI, CA 95240**
0.023 mi.
124 ft. **Site 3 of 4 in cluster B**

Actual:
70 ft.

Focus Map:
12

SWEEPS UST:
Name: EMIL HEKENLAIBLE
Address: 14117 N LOCUST TREE RD
City: LODI
Status: Not reported
Comp Number: 4200
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-004200-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 39003957
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 14117 N LOCUST TREE RD
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported

EMIL HEKENLAIBLE (Continued) **S101625687**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

B6 **HECKENLAIBLE FARMS INC** **RCRA NonGen / NLR** **1024848714**
South **14117 N LOCUST TREE RD** **CAL000404573**
< 1/8 **LODI, CA 95240**
0.023 mi.
124 ft. **Site 4 of 4 in cluster B**

Actual:
70 ft.

Focus Map:
12

RCRA NonGen / NLR:

Date Form Received by Agency:		20150219
Handler Name:	HECKENLAIBLE FARMS INC	
Handler Address:		14117 N LOCUST TREE RD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAL000404573
Contact Name:		DWAYNE HECKENLAIBLE
Contact Address:		14117 N LOCUST TREE RD
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-993-0819
Contact Fax:		209-333-9365
Contact Email:		CHARDONNAY@SOFTCOM.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14117 N LOCUST TREE RD
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	JULIA HECKENLAIBLE	
Owner Type:		Other
Operator Name:	DWAYNE HECKENLAIBLE	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---

HECKENLAIBLE FARMS INC (Continued) **1024848714**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JULIA HECKENLAIBLE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14117 N LOCUST TREE RD
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-368-6173
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: DWAYNE HECKENLAIBLE	
Legal Status:	Other
Date Became Current:	Not reported

HECKENLAIBLE FARMS INC (Continued) **1024848714**

Date Ended Current:	Not reported
Owner/Operator Address:	14117 N LOCUST TREE RD
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-993-0819
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20150219
Handler Name:	HECKENLAIBLE FARMS INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C7 **LODI COLD STORAGE** **HIST UST** **S118412409**
West **6021 E KETTLEMEN** **N/A**
< 1/8 **LODI, CA 93240**
0.053 mi.
279 ft. **Site 1 of 6 in cluster C**

Actual:
58 ft.

Focus Map:
10

HIST UST:

Name:	LODI COLD STORAGE
Address:	6021 E KETTLEMEN
City,State,Zip:	LODI, CA 93240
File Number:	0002F9F3
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F9F3.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

LODI COLD STORAGE (Continued) **S118412409**

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

C8 **LODI COLD STORAGE** **HIST UST** **U001604426**
West **6021 E KETTLEMAN LN** **N/A**
< 1/8 **LODI, CA 95240**
0.053 mi.
279 ft. **Site 2 of 6 in cluster C**

Actual: **58 ft.**
Focus Map: **10**

HIST UST:

Name:	LODI COLD STORAGE
Address:	6021 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000051360
Facility Type:	Other
Other Type:	COLD STORAGE
Contact Name:	ORIN FOCACCI
Telephone:	2093343173
Owner Name:	BLUE ANCHOR, INC.
Owner Address:	730 HOWE AVE.
Owner City,St,Zip:	SACRAMENTO, CA 95825
Total Tanks:	0001
Tank Num:	001
Container Num:	2
Year Installed:	1978
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

C9 **DELTA PACKING CO** **RCRA NonGen / NLR** **1024805353**
West **6021 E KETTLEMEN LN** **CAL000263220**
< 1/8 **LODI, CA 95240**
0.053 mi.
279 ft. **Site 3 of 6 in cluster C**

Actual: **58 ft.**
Focus Map: **10**

RCRA NonGen / NLR:

Date Form Received by Agency:		20021205
Handler Name:	DELTA PACKING CO	
Handler Address:		6021 E KETTLEMEN LN
Handler City,State,Zip:		LODI, CA 95240-0000
EPA ID:		CAL000263220
Contact Name:		DAVID WENTRUP

DELTA PACKING CO (Continued) **1024805353**

Contact Address:		6021 E KETTLEMEN LN
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-334-1023
Contact Fax:		209-334-7805
Contact Email:		DWENTRUP@DELTAPACKING.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		6021 E KETTLEMEN LN
Mailing City,State,Zip:		LODI, CA 95240-0000
Owner Name:	DELTA PACKING CO	
Owner Type:		Other
Operator Name:	DAVID WENTRUP	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking

DELTA PACKING CO (Continued) **1024805353**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAVID WENTRUP	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6021 E KETTLEMEN LN
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-334-1023
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: DELTA PACKING CO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6021 E KETTLEMEN LN
Owner/Operator City,State,Zip:	LODI, CA 95240-0000
Owner/Operator Telephone:	209-334-1023
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20021205
Handler Name: DELTA PACKING CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

DELTA PACKING CO (Continued) **1024805353**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 115114
NAICS Description: POSTHARVEST CROP ACTIVITIES (EXCEPT COTTON GINNING)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C10 **DELTA PACKING CO. OF LODI,INC.** **CERS HAZ WASTE** **S113749390**
West **6021 E KETTLEMAN LANE** **EMI** **N/A**
< 1/8 **LODI, CA 95240** **NPDES**
0.053 mi. **CIWQS**
279 ft. **Site 4 of 6 in cluster C** **CERS**

Actual:
58 ft.

Focus Map:
10

CERS HAZ WASTE:
Name: DELTA PACKING 6021
Address: 6021 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 110929
CERS ID: 10184273
CERS Description: Hazardous Waste Generator

Name: DELTA PACKING 6021
Address: 6021 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 110929
CERS ID: 10184273
CERS Description: Hazardous Chemical Management

EMI:
Name: DELTA PACKING CO. OF LODI,INC.
Address: 6021 E KETTLEMAN LANE
City,State,Zip: LODI, CA 95240
Year: 2009
County Code: 39
Air Basin: SJV
Facility ID: 2395
Air District Name: SJU
SIC Code: 723
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 7.6409960216278696
Reactive Organic Gases Tons/Yr: 5.3379998207092303
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.7609504365874598
Reactive Organic Gases Tons/Yr:	3.3259999750000002
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.9046664758
Reactive Organic Gases Tons/Yr:	4.125
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2012
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.2267390562
Reactive Organic Gases Tons/Yr:	4.3499999046
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: DELTA PACKING CO. OF LODI,INC.
Address: 6021 E KETTLEMAN LANE
City,State,Zip: LODI, CA 95240
Year: 2013
County Code: 39
Air Basin: SJV
Facility ID: 2395
Air District Name: SJU
SIC Code: 723
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6.4414543372
Reactive Organic Gases Tons/Yr: 4.5
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: DELTA PACKING CO. OF LODI,INC.
Address: 6021 E KETTLEMAN LANE
City,State,Zip: LODI, CA 95240
Year: 2014
County Code: 39
Air Basin: SJV
Facility ID: 2395
Air District Name: SJU
SIC Code: 723
Air District Name: SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.9348697258
Reactive Organic Gases Tons/Yr: 3.4474999905
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: DELTA PACKING CO. OF LODI,INC.
Address: 6021 E KETTLEMAN LANE
City,State,Zip: LODI, CA 95240
Year: 2015
County Code: 39
Air Basin: SJV
Facility ID: 2395
Air District Name: SJU
SIC Code: 723
Air District Name: SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 5.332092621
Reactive Organic Gases Tons/Yr: 3.724999905

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.5427997495
Reactive Organic Gases Tons/Yr:	2.474999905
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.0458060335
Reactive Organic Gases Tons/Yr:	3.525000095
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.2943028915
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.4895442126
Reactive Organic Gases Tons/Yr:	1.739245963
Carbon Monoxide Emissions Tons/Yr:	0.000675
NOX - Oxides of Nitrogen Tons/Yr:	0.00401
SOX - Oxides of Sulphur Tons/Yr:	0.00318
Particulate Matter Tons/Yr:	9.1348088531e-005
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.08e-005

Name:	DELTA PACKING CO. OF LODI,INC.
Address:	6021 E KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Year:	2020
County Code:	39
Air Basin:	SJV
Facility ID:	2395
Air District Name:	SJU
SIC Code:	723
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.8723096878
Reactive Organic Gases Tons/Yr:	2.705245924
Carbon Monoxide Emissions Tons/Yr:	0.000675
NOX - Oxides of Nitrogen Tons/Yr:	0.00401
SOX - Oxides of Sulphur Tons/Yr:	0.00318
Particulate Matter Tons/Yr:	9.1348088531e-005
Part. Matter 10 Micrometers and Smllr Tons/Yr:	9.08e-005

NPDES:

Name:	DELTA FRESH PACKING FACILITY IMPROVEMENTS
Address:	6021 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	5S
Agency Number:	0

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Regulatory Measure ID:	540309
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	5S39C394932
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/26/2021
Termination Date Of Regulatory Measure:	05/03/2022
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	6021 East Kettleman Lane
Discharge Name:	Delta Packing Company of Lodi
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	DELTA FRESH PACKING FACILITY IMPROVEMENTS
Address:	6021 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39C394932
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	05/04/2022
Operator Name:	Delta Packing Company of Lodi
Operator Address:	6021 East Kettleman Lane
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

CIWQS:

Name:	DELTA FRESH PACKING FACILITY IMPROVEMENTS
Address:	6021 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240

DELTA PACKING CO. OF LODI,INC. (Continued) **S113749390**

Agency:	Delta Packing Company of Lodi
Agency Address:	6021 East Kettleman Lane, Lodi, CA 95240
Place/Project Type:	Construction - Industrial
SIC/NAICS:	Not reported
Region:	5S
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	5S39C394932
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	08/26/2021
Termination Date:	05/03/2022
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.116629
Longitude:	-121.241249

CERS:

Name:	DELTA FRESH PACKING FACILITY IMPROVEMENTS
Address:	6021 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
Site ID:	593643
CERS ID:	897238
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Delta Packing Company of Lodi
Entity Title:	Operator
Affiliation Address:	6021 East Kettleman Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

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11 **WINSTON C WATSON** **HIST UST** **U001604566**
North **14262 N LOCUST TREE ROAD** **N/A**
< 1/8 **LODI, CA 95240**
0.054 mi.
284 ft.

Actual:
71 ft.

Focus Map:
12

HIST UST:

Name:	WINSTON C WATSON
Address:	14262 N LOCUST TREE ROAD
City,State,Zip:	LODI, CA 95240
File Number:	0002B649
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B649.pdf
Region:	STATE
Facility ID:	00000049056

WINSTON C WATSON (Continued) **U001604566**

Facility Type:	Not reported
Other Type:	FARM
Contact Name:	WINSTON WATSON
Telephone:	209368962
Owner Name:	WINSTON C. WATSON
Owner Address:	14262 N. LOCUST TREE ROAD
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1969
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1969
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

D12 **BGM RANCH** **HIST UST** **U001604232**
North **14415 NORTH ALPINE ROAD** **N/A**
< 1/8 **LODI, CA 95240**
0.059 mi.
312 ft. **Site 1 of 2 in cluster D**

Actual: **63 ft.**
Focus Map: **11**

HIST UST:

Name:	BGM RANCH
Address:	14415 NORTH ALPINE ROAD
City,State,Zip:	LODI, CA 95240
File Number:	0002FC82
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FC82.pdf
Region:	STATE
Facility ID:	00000056261
Facility Type:	Other
Other Type:	AGRICULTURE
Contact Name:	GENE E. MCKNIGHT
Telephone:	2093681274
Owner Name:	GENE E. & BETTY ANNE MCKNIGHT
Owner Address:	14415 N. ALPINE RD
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL

BGM RANCH (Continued) **U001604232**

Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

D13 **GENE MCKNIGHT** **SWEEPS UST** **S101593011**
North **14415 N ALPINE ROAD** **CA FID UST** **N/A**
< 1/8 **LODI, CA 95253**
0.059 mi.
312 ft. **Site 2 of 2 in cluster D**

Actual: **63 ft.**
Focus Map: **11**

SWEEPS UST:
Name: GENE MCKNIGHT
Address: 14415 N ALPINE ROAD
City: LODI
Status: Not reported
Comp Number: 4358
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-004358-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

Name: GENE MCKNIGHT
Address: 14415 N ALPINE ROAD
City: LODI
Status: Active
Comp Number: 4358
Number: 2
Board Of Equalization: Not reported
Referral Date: 10-07-91
Action Date: 10-07-91
Created Date: 05-29-91
Owner Tank Id: 001
SWRCB Tank Id: 39-000-004358-000001
Tank Status: A
Capacity: 500
Active Date: 10-19-92
Tank Use: PETROLEUM
STG: P

GENE MCKNIGHT (Continued) **S101593011**

Content: DIESEL
Number Of Tanks: 1

CA FID UST:
Facility ID: 39001276
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093681274
Mail To: Not reported
Mailing Address: 14415 N ALPINE ROAD
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95253
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

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14 **ROBERT & CYNTHIA WEAVER KENNEL** **UST** **U004024716**
North **15466 N LINN RD** **N/A**
< 1/8 **LODI, CA 95240**
0.066 mi.
347 ft.

Actual:
124 ft.

Focus Map:
15

UST SAN JOAQUIN:
Name: ROBERT & CYNTHIA WEAVER KENNEL
Address: 15466 N LINN RD
City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0000565
Mail Address: PO BOX 784
Mail Address 2: Not reported
Mail Care of: ROBERT & CYNTHIA WEAVER KENNEL
Mail City,St,Zip: LINDEN, CA 95235-0784

Tank Rec ID: TA0505452
Tank Number: Not reported
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 550
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2322
Decode for Program Element: 2322 - EXEMPT UST
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1224871359
Longitude: -121.1033687879

C15 **SSHP COLD STORAGE, LLC.** **CERS HAZ WASTE** **S121775808**
West **6030 E KETTLEMAN LN** **CERS** **N/A**
< 1/8 **LODI, CA 95240**
0.073 mi.
384 ft. **Site 5 of 6 in cluster C**

Actual:
58 ft.

Focus Map:
10

CERS HAZ WASTE:
Name: SSHP COLD STORAGE, LLC.
Address: 6030 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 402237
CERS ID: 10187463
CERS Description: Hazardous Chemical Management

Name: SSHP COLD STORAGE, LLC.
Address: 6030 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 402237
CERS ID: 10187463
CERS Description: Hazardous Waste Generator

CERS:
Name: SSHP COLD STORAGE, LLC.
Address: 6030 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 402237
CERS ID: 10187463
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 06-18-2020
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: OBSERVATION: Designated facility signed copy of Uniform Hazardous Waste Manifest (UHWM) number 019172907JJK was not found on-site. REGULATION GUIDANCE: A hazardous waste generator shall keep a copy of each manifest signed in accordance with section 66262.23(a) for three years or until the generator receives a signed copy from the designated facility which received the waste. This signed copy shall be retained as a record for at least three years from the date the waste was accepted by the initial transporter. The hazardous waste generator must submit a copy of the manifest to the California Department of Toxic Substances Control (DTSC) within 60 days if the destination facility signed manifest copy is not received from the transporter or designated facility. CORRECTIVE ACTION: Locate a copy of the destination facility signed manifests and send a copy to the San Joaquin County Environmental Health Department (EHD). If the destination facility signed manifests cannot be fou
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	04-17-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 04/17/2017. A Hazardous Materials Business Plan has not been established. On 2/3/2014 the HMBP was not accepted , and has not been resubmitted since then. A Hazardous Materials Business Plan shall be established and implemented for emergency response to a release or threatened release of a hazardous material when storing hazardous materials at or above the thresholds quantities of 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gas, at standard temperature and pressure. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the required information, and submit for review by the EHD. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/06/2020. The site map was not completed and submitted annually to CERS. The site maps have not been reviewed and submitted to CERS since April 17, 2017. The site maps submitted on 04/17/2027 are missing internal roads, emergency response equipment, emergency shut offs, and storm/sewer drains. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	06-18-2020
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	OBSERVATION: This facility generates drained used metal oil filters. A complete three year bill of lading record for used oil filter

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

recycling through the maintenance of forklifts was not observed during the inspection for the following date range: June 18, 2017 - June 18, 2020. REGULATION GUIDANCE: Persons generating, transporting, or receiving used metal oil filters shall use a bill of lading to record the transfer of used oil filters. Bills of lading must indicate generator, transporter, and receiving company names, addresses, telephone numbers, the quantity and size of used oil filter containers transferred, and the date of transfer. A copy of each bill of lading must be kept on the premises of the generator, transporter, and receiving facility where the used oil filters were handled. Copies of bills of lading shall be kept for a period of three years. CORRECTIVE ACTION: Immediately obtain all missing bill of lading recycling records that can be found. Used metal oil fi

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 06-18-2020
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: OBSERVATION: Copies of consolidated manifest receipts from June 18, 2017 - June 18, 2020 for hazardous wastes including used oil and used refrigeration oil, were not found on site during the inspection REGULATION GUIDANCE: The generator shall retain each consolidated manifest receipt for at least three years. This period of retention is extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the department or a certified unified program agency. CORRECTIVE ACTION: Immediately locate a copy of all consolidated manifest receipts from June 18, 2017 - June 18, 2020 and maintain them on site. Provide a copy of the consolidated manifest receipts and a corrective action statement to the San Joaquin County Environmental Health Department.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 08-05-2016
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures.
Violation Notes: Returned to compliance on 08/09/2018. Copies of hazardous waste disposal records for August 5, 2013 through August 5, 2016 were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 04/17/2017. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. On 2/3/2014 the HMBP was not accepted , and has not been resubmitted since then. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 06-18-2020
Citation: HSC 6.5 25123.3(h)(2) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(2)
Violation Description: Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 60 days of the date the waste was accepted by the initial transporter.
Violation Notes: OBSERVATION: The facility did not have an exception report on site for Uniform Hazardous Waste Manifests (UHWM) 019172907JJK. REGULATION GUIDANCE: (a) A generator who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial transporter shall contact the transporter and/or the owner or operator of the designated facility to determine the status of the hazardous waste. (c) A hazardous waste generator who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator’s waste is submitted, within 60 days from the date that the hazardous waste was accepted by the initial transporter, shall submit to the department a legible copy of the manifest, with some indication that the generator has not received confirmation of delivery. (d) Generators shall submit the information to the d
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/05/2020. Failed to document annual refresher trainings. There were no training records at the time of the inspection for ammonia awareness training, evacuation, and emergency response procedures. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a mi
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	08-05-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/09/2018. Containers of hazardous waste not completely labeled: - A blue 55 gallon drum of used refrigeration oil in the mechanical room did not have label filled out completely - A black 55 gallon drum of used refrigeration oil in the mechanical room had no label - A black 5 gallon drum of used refrigeration oil in the mechanical room had no label All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	04-17-2017
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19,

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

	Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 04/17/2017. The Business Owner/Operator Identification form was not corrected and submitted to CERS. On 2/3/2014 the HMBP was not accepted , and has not been resubmitted since then. The Owner/Operator Information does not have a certifying individual ,secondary emergency contact, and the property owner information listed. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	04-17-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/17/2017. The emergency response procedures were not submitted to CERS . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	06-18-2020
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	OBSERVATION: The following hazardous waste containers were found

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

on-site with an accumulation start date of greater than 180 days or no accumulation start date: one 55-gallon drum containing used oil was observed with accumulation start date 10/20/19. REGULATION GUIDANCE: (a) Except as provided in subsections (c) and (d) of this section and section 66262.35, a generator may accumulate hazardous waste on-site for 90 days or less without a permit or grant of interim status, provided that: (b) The beginning of the 90 day period specified in subsections (a) and (c) of this section is determined as follows: (1) if the generator does not generate more than 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste (listed in section 66261.33(e)) or one kilogram of extremely hazardous waste during any calendar month, the 90 day period begins on the date the generator has accumulated 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste or one

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/17/2017. A training program was not submitted to CERS . Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 07-01-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 07/22/2020. The emergency response procedures were not submitted to CERS. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment -

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	evacuation plans and procedures, including immediate notice, for the site. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	19 CCR 4.5 2765.1(b) - California Code of Regulations, Title 19, Chapter 4.5, Section(s) 2765.1(b)
Violation Description:	Failure of owner or operator of a stationary source whose employees will not respond to accidental releases of regulated substances to meet the following: 1. For stationary sources with any regulated toxic substances held in a process above the threshold quantity, the stationary source is included in the community emergency response plan developed under Section 11003 of Title 42 of the United States Code (USC), is included in the city or county Hazardous Materials Area plans, and/or is included in the business plan program, pursuant to Section 25507 of the Health & Safety Code. The owner or operator must document that response actions have been coordinated with the local fire department and hazardous materials response agencies; 2. For stationary sources with only regulated flammable substances held in a process above the threshold quantity, the owner or operator must document that response actions have been coordinated with the local fire department and hazardous materials response agencies; and, 3. Appropriate mechanisms and written procedures are in place to notify emergency responders when there is a need for a response.
Violation Notes:	Returned to compliance on 08/06/2020. The owner/operator failed to meet all of the requirements for not having an Emergency Response Program. The owner or operator of a stationary source whose employees will not respond to accidental releases of regulated substances need not comply with Section 2765.1 for coordinating response with local fire department. It was noted during the last inspection that the facility needs to coordinate emergency response with the local fire department. The owner or operator must document that response actions have been coordinated with the local fire department and hazardous materials response agencies. Submit documentation to our department that outlines the coordination with the local fire department.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CalARP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	08-05-2016
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 08/09/2018. Bills of lading for the recycling of used oil filters for the last three years were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading for used oil filters for the last three years, maintain them on site,

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and submit copies to the EHD. Three drained used oil filters on top of a hazardous waste drum in the mechanical room were not containerized, not labeled and had no start date. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately containerize, label the drained used oil filters and mark a start date and ensure that all used oil filters are managed in this way.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 04/17/2017. A site map was not completed and submitted as part of the business plan. A site map did no contain the locations of the Hazardous materials storage areas, and evacuation staging area (s). Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 07-01-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/06/2020. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS) annually. The business plan has not been submitted to the California Environmental Reporting System(CERS) since 04/17/2017. As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Violation Date: 04-17-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

	quantities.
Violation Notes:	Returned to compliance on 04/17/2017. A complete facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). On 2/3/2014 the HMBP was not accepted , and has not been resubmitted since then. As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	04-17-2017
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 05/17/2017. Facility failed to pay annual operating fees for the year 2017, and fees for follow up for non-compliance. The current balance for this facility is $ 1067.30. Fees shall be paid once a year at the time of submittal of an inventory form. Immediately pay the annual fee to the EHD Accounting Office located at 1868 E Hazelton Avenue, Stockton, CA 95205. Fee may also be paid online at www.sjcehd.com (Convenience fee may apply).
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/22/2020. The Business Owner/Operator Identification form was not reviewed and submitted to CERS annually .The Business Owner/Operator Identification form has not been submitted to CERS since 04/17/2017. The business name has changed in the 2020 submitted Risk Management Plan from Silvestres Const. Mech. Co. to SSHP. This information has not been updated in CERS. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

	business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 08/06/2020. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The business plan has not been reviewed and submitted to CERS since April 17, 2017. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	07-01-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/06/2020. The Hazardous Materials Inventory has not been submitted to CERS since 04//17/2017. The Obsolete Hazard Categories and Classes have not been updated to the 2018 new 24 hazard categories. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	08-05-2016
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 08/09/2018. Copies of uniform manifests for the disposal of hazardous waste for August 5, 2013 through August 5, 2016 were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Violation Date:	07-01-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/22/2020. A training program was not submitted to CERS. Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information,
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.
Violation Date:	08-05-2016
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 06/18/2020. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Containers of hazardous waste that did not have a start accumulation date: - A blue 55 gallon drum of used refrigeration oil in the mechanical room - A black 55 gallon drum of used refrigeration oil in the mechanical room - A black 5 gallon drum of used refrigeration oil in the mechanical room Since it cannot be determined how long the hazardous waste has been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest. Submit a copy of the manifest to the EHD within 30 days.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	402237
Site Name:	SSHP Cold Storage, LLC.

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Violation Date: 08-05-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 06/18/2020. This facility s hazardous waste ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without a hazardous waste ID number. Go to the DTSC web site http://www.dtsc.ca.gov/IDManifest/PERMHWID.cfm for the form to reactivate the ID number .Immediately reactivate your state ID number and submit evidence to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were noted at the time of the inspection. This inspection also was part of the evaluation review as part of the RMP submittal review. Comments were not received during the formal public review period. Notes: Upon reviewing the records on site a hazard review from 9/19/05 has three recommendations that have not been marked with the completion date. A current hazard review/process hazard analysis has not been completed every five years. All recommendations from the hazard review/process hazard analysis must be completed within one year from the date of the hazard review/process hazard analysis. If more time is required, our department must be notified in writing to request an extension for up to 2.5 years. Compliance audits were not found for the two most recent audits. A compliance audit must be certified at least every three years to verify that the procedures and practices developed are adequate and are being followed. Any recommedations from the [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-18-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by [DATE, 30 days from now] . To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: modified contingency plan, used oil and filter record form, return to compliance certification form Waste streams found: used oil, refrigeration oil, used oil filters from forklift maintenance Minor Violations Corrected During the Inspection:

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	Emergency Coordinator and Modified Contingency plan posted during the inspection by Silvestre Hernandez.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-17-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Conducted a routine billable inspection. See daily entry for service code 001 for details.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct a CalARP inspection. This inspection was part of the CalARP evaluation review. There was one violation during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 07/31/2020 . A checklist was provided to facility today with incomplete information. This inspection report will replace the initial checklist/report. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Notes: SSHP hired Resource Compliance in May 2020 to help with completing and submitting the CalARP program. In June 2020 Resource Compliance developed audits reports including Hazard
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct a Hazardous Materials Business Plan (HMBP) inspection. There were eight (8) violations during the inspection.Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 07/31/2020. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a Hazardous Materials Business Plan (HMBP) inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 05/16/2017. Note: Keep records of the Ammonia awareness and Safety Data Sheet (SDS) trainings on file. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	08-05-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to meet with Chad Clark and Silvestre Hernandez regarding the layout of the facility in relation to the other two facilities nearby. This is the primary facility for 5990 E Kettleman Ln.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-05-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 4, 2016 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. NOTES: - The facility generates used refrigeration oil and drained used oil filters. - Provided hazardous waste labels and minimum label requirement information - Provided SJCEHD CUPA class schedule - Provided Return to Compliance Certification
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-18-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Site Address: 6030 E KETTLEMAN LN
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-17-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 402237
Site Name: SSHP Cold Storage, LLC.
Site Address: 6030 E KETTLEMAN LN
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 402237
Facility Name: SSHP Cold Storage, LLC.
Env Int Type Code: CalARP
Program ID: 10187463
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 38.114449
Longitude: -121.242134

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Environmental Contact
Entity Name: Silvestre Hernandez
Entity Title: Not reported
Affiliation Address: PO BOX 2507

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95201
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Silvestre Hernandez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 327-0749,
Affiliation Type Desc:	Parent Corporation
Entity Name:	SILVESTRES CONST MECH CO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 2507
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95241
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Silvestre Hernandez
Entity Title:	Not reported
Affiliation Address:	PO BOX 2507
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95241
Affiliation Phone:	(209) 333-2608,
Affiliation Type Desc:	Property Owner
Entity Name:	Silvestre Hernandez
Entity Title:	Not reported
Affiliation Address:	6030 E KETTLEMAN LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 327-0749,
Affiliation Type Desc:	Document Preparer

SSHP COLD STORAGE, LLC. (Continued) **S121775808**

Entity Name:	Silvestre Hernandez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Silvestre Hernandez
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

C16 **SILVESTRES MECHANICAL CO INC** **RCRA NonGen / NLR** **1024824704**
West **6030 E KETTLEMAN LN** **CAL000348824**
< 1/8 **LODI, CA 95240**
0.073 mi.
384 ft. **Site 6 of 6 in cluster C**

Actual: **58 ft.**

Focus Map: **10**

RCRA NonGen / NLR:

Date Form Received by Agency:	20091217
Handler Name:	SILVESTRES MECHANICAL CO INC
Handler Address:	6030 E KETTLEMAN LN
Handler City,State,Zip:	LODI, CA 95240-6410
EPA ID:	CAL000348824
Contact Name:	XARLOS HERNANDEZ
Contact Address:	PO BOX 2507
Contact City,State,Zip:	LODI, CA 95241-2507
Contact Telephone:	209-333-2608
Contact Fax:	855-444-7624
Contact Email:	CARLOS@SMCI209.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 2507
Mailing City,State,Zip:	LODI, CA 95241-2507
Owner Name:	SILVESTRES MECHANICAL CO INC
Owner Type:	Other
Operator Name:	XARLOS HERNANDEZ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

SILVESTRES MECHANICAL CO INC (Continued) **1024824704**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SILVESTRES MECHANICAL CO INC
Legal Status:	Other

SILVESTRES MECHANICAL CO INC (Continued) **1024824704**

Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 2507
Owner/Operator City,State,Zip: LODI, CA 95241-2507
Owner/Operator Telephone: 209-327-0749
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: XARLOS HERNANDEZ
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 2507
Owner/Operator City,State,Zip: LODI, CA 95241-2507
Owner/Operator Telephone: 209-333-2608
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20091217
Handler Name: SILVESTRES MECHANICAL CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: Not reported
Recognized Trader Exporter: Not reported
Spent Lead Acid Battery Importer: Not reported
Spent Lead Acid Battery Exporter: Not reported
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811412
NAICS Description: APPLIANCE REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E17 **WILL MCVICKER** **SWEEPS UST** **S101593437**
North **15510 N JACK TONE ROAD** **HIST UST** **N/A**
< 1/8 **LODI, CA 95240** **CA FID UST**
0.076 mi.
400 ft. **Site 1 of 3 in cluster E**

Actual:
84 ft.

Focus Map:
13

SWEEPS UST:

Name:	WILL MCVICKER
Address:	15510 N JACK TONE ROAD
City:	LODI
Status:	Not reported
Comp Number:	4353
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-004353-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

HIST UST:

Name:	MCVICKER RANCH
Address:	15510 M JACK TONE ROAD
City,State,Zip:	LODI, CA 95240
File Number:	0002B64F
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B64F.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39004090
Regulated By:	UTNKI

WILL MCVICKER (Continued) **S101593437**

Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093338406
Mail To:	Not reported
Mailing Address:	15510 N JACK TONE ROAD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 952409708
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

E18 **MCVICKER, WILL** **UST** **U004024349**
North **15510 N JACK TONE RD** **N/A**
< 1/8 **LODI, CA 95240**
0.076 mi.
400 ft. **Site 2 of 3 in cluster E**

Actual:
84 ft.

Focus Map:
13

UST SAN JOAQUIN:

Name:	MCVICKER, WILL
Address:	15510 N JACK TONE RD
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0005514
Mail Address:	15510 N JACK TONE RD
Mail Address 2:	Not reported
Mail Care of:	Not reported
Mail City,St,Zip:	LODI, CA 95240
Tank Rec ID:	TA0502619
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	500
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2322
Decode for Program Element:	2322 - EXEMPT UST
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

E19 **MCVICKER RANCH** **HIST UST** **U001604450**
North **15510M N JACK TONE RD** **N/A**
< 1/8 **LODI, CA 95240**
0.076 mi.
400 ft. **Site 3 of 3 in cluster E**

Actual: HIST UST:
84 ft.
Focus Map: Name: MCVICKER RANCH
13 Address: 15510M N JACK TONE RD
City,State,Zip: LODI, CA 95240
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000028827
Facility Type: Other
Other Type: RANCH
Contact Name: WILL MCVICKER
Telephone: 2097275569
Owner Name: WM & DM MCVICKER
Owner Address: 15510 N JACK TONE ROAD
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000489
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Vapor Sniff Well

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20 **LW KEARL** **HIST UST** **U001604408**
North **14408 NO ALPINE RD** **N/A**
< 1/8 **LODI, CA 95240**
0.079 mi.
416 ft.

Actual: HIST UST:
66 ft.
Focus Map: Name: LW KEARL
11 Address: 14408 NO ALPINE RD
City,State,Zip: LODI, CA 95240
File Number: 0002FE3C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FE3C.pdf
Region: STATE
Facility ID: 00000064739
Facility Type: Other
Other Type: FARMER
Contact Name: Not reported
Telephone: 2093341289
Owner Name: KEARL FARMS
Owner Address: 14408 NO. ALPINE RD.
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT

LW KEARL (Continued) **U001604408**

Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

F21 **BREA AGRICULTURAL INC** **UST** **U004260310**
West **6042 E KETTLEMAN LN** **N/A**
< 1/8 **LODI, CA 95240**
0.085 mi.
451 ft. **Site 1 of 4 in cluster F**

Actual: UST SAN JOAQUIN:
58 ft.
Name: BREA AGRICULTURAL INC
Focus Map: Address: 6042 E KETTLEMAN LN
10 City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0004692
Mail Address: 6042 E KETTLEMAN LN
Mail Address 2: Not reported
Mail Care of: BREA AGRICULTURAL INC
Mail City,St,Zip: LODI, CA 95240

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 2500
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: Not reported
Longitude: Not reported

F22 **BREA AGRICULTURAL SERVICE INC** **UST** **U004260358**
West **6042 E KETTLEMAN LN** **N/A**
< 1/8 **LODI, CA 95240**
0.085 mi.
451 ft. **Site 2 of 4 in cluster F**

Actual: UST SAN JOAQUIN:
58 ft.
Name: BREA AGRICULTURAL SERVICE INC
Focus Map: Address: 6042 E KETTLEMAN LN
10 City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0004881
Mail Address: 6042 E KETTLEMAN LN
Mail Address 2: Not reported
Mail Care of: BREA AGRICULTURAL SERVICE INC

BREA AGRICULTURAL SERVICE INC (Continued) **U004260358**

Mail City,St,Zip:	LODI, CA 95240
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	2500
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

F23 **CROP PRODUCTION SERVICES INC** **RCRA NonGen / NLR** **1024795139**
West **6042 E KETTLEMAN LN** **CAL000160218**
< 1/8 **LODI, CA 95240**
0.085 mi.
451 ft. **Site 3 of 4 in cluster F**

Actual: **58 ft.**

Focus Map: **10**

RCRA NonGen / NLR:

Date Form Received by Agency:	19960322
Handler Name:	CROP PRODUCTION SERVICES INC
Handler Address:	6042 E KETTLEMAN LN
Handler City,State,Zip:	LODI, CA 95240-6410
EPA ID:	CAL000160218
Contact Name:	EVAN RUDOMEN
Contact Address:	3005 ROCKY MOUNTAIN AVE
Contact City,State,Zip:	LOVELAND, CO 80538-0000
Contact Telephone:	970-685-3375
Contact Fax:	970-685-3911
Contact Email:	EVAN.RUDOMEN@CPSAGU.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3005 ROCKY MOUNTAIN AVE
Mailing City,State,Zip:	LOVELAND, CO 80538-0000
Owner Name:	CROP PRODUCTION SERVICES, INC.
Owner Type:	Other
Operator Name:	EVAN RUDOMEN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

CROP PRODUCTION SERVICES INC (Continued) **1024795139**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: EVAN RUDOMEN	
Legal Status:	Other

CROP PRODUCTION SERVICES INC (Continued) **1024795139**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3005 ROCKY MOUNTAIN AVE
Owner/Operator City,State,Zip:	LOVELAND, CO 80538-0000
Owner/Operator Telephone:	970-685-3375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CROP PRODUCTION SERVICES, INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3005 ROCKY MOUNTAIN AVE
Owner/Operator City,State,Zip:	LOVELAND, CO 80538-0000
Owner/Operator Telephone:	970-685-3300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960322
Handler Name:	CROP PRODUCTION SERVICES INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44422
NAICS Description:	NURSERY, GARDEN CENTER, AND FARM SUPPLY STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

F24 **WESTERN FARM SVC - LODI** **RCRA-SQG** **1000141574**
West **6042 E. KETTLEMAN RD.** **FINDS** **CAT080011836**
< 1/8 **LODI, CA 95240** **ECHO**
0.085 mi.
451 ft. **Site 4 of 4 in cluster F**

Actual:
58 ft.

Focus Map:
10

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	BREA AGRI SERV INC	
Handler Address:		6042 E KETTLEMAN LN
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAT080011836
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		1
Mailing Address:		PO BOX 60235
Mailing City,State,Zip:		LOS ANGELES, CA 90060
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

WESTERN FARM SVC - LODI (Continued) **1000141574**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BREA AGRICULTURAL SERVICE INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

WESTERN FARM SVC - LODI (Continued) **1000141574**

Historic Generators:

Receive Date:		19960901
Handler Name:	BREA AGRI SERV INC	
Federal Waste Generator Description:		Small Quantity Generator
State District Owner:		CA
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		Yes
Non Storage Recycler Activity:		Not reported
Electronic Manifest Broker:		Not reported

Receive Date:		19801024
Handler Name:	BREA AGRI SERV INC	
Federal Waste Generator Description:		Large Quantity Generator
State District Owner:		CA
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No
Non Storage Recycler Activity:		Not reported
Electronic Manifest Broker:		Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44422
NAICS Description:	NURSERY, GARDEN CENTER, AND FARM SUPPLY STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110008290606

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110024448347

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the

WESTERN FARM SVC - LODI (Continued) **1000141574**

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
SSTS (Section Seven Tracking System) evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide-producing establishments and tracks annually the types and amounts of pesticides, active ingredients, and related devices that are produced, sold, or distributed each year.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000141574
Registry ID:	110008290606
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008290606
Name:	BREA AGRI SERV INC
Address:	6042 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240

G25 **CEPHEID** **RCRA NonGen / NLR** **1026723808**
South **1330 E THURMAN RD** **CAL000460927**
< 1/8 **LODI, CA 95240**
0.100 mi.
528 ft. **Site 1 of 3 in cluster G**

Actual:
59 ft.

Focus Map:
10

RCRA NonGen / NLR:

Date Form Received by Agency:		20210312
Handler Name:	CEPHEID	
Handler Address:		1330 E THURMAN RD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAL000460927
Contact Name:		LANA KARPUK
Contact Address:		225 N GUILD AVE
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		916-824-4586
Contact Fax:		Not reported
Contact Email:		LANA.KARPUK@CEPHEID.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		225 N GUILD AVE
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	CEPHEID LODI LLC	
Owner Type:		Other
Operator Name:	LANA KARPUK	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

CEPHEID (Continued) **1026723808**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210312
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: CEPHEID LODI LLC

CEPHEID (Continued) **1026723808**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	904 CARIBBEAN DR
Owner/Operator City,State,Zip:	SUNNYVALE, CA 94089
Owner/Operator Telephone:	408-541-4191
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: LANA KARPUK	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	225 N GUILD AVE
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	916-824-4586
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210312
Handler Name: CEPHEID	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	334516
NAICS Description:	ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

G26 **R & L CARRIERS** **CERS HAZ WASTE** **S118587471**
South **1330 THURMAN ST** **HAZNET** **N/A**
< 1/8 **LODI, CA 95240** **NPDES**
0.100 mi. **CIWQS**
528 ft. **Site 2 of 3 in cluster G** **CERS**
HWTS

Actual:
59 ft.

Focus Map:
10

CERS HAZ WASTE:

Name:	CEPHEID - BUILDING 4
Address:	1330 THURMAN ST
City,State,Zip:	LODI, CA 95240
Site ID:	573368
CERS ID:	10184947
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	R & L CARRIERS
Address:	1330 THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Contact:	TINA BREEZLEY
Telephone:	4403492700
Mailing Name:	Not reported
Mailing Address:	4143 JESSUP RD
Year:	2016
Gepaid:	CAC002877110
TSD EPA ID:	CAD028409019
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02085

NPDES:

Name:	AMERICAN MASTERTECH
Address:	1330 THURMAN ST.
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39NEC001941
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated

R & L CARRIERS (Continued) **S118587471**

Status Date:	11/30/2020
Operator Name:	American MasterTech
Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	469955
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/24/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	American MasterTech
Discharge Address:	1330 East Thurman Road
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

R & L CARRIERS (Continued) **S118587471**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	469955
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/01/2016
Processed Date:	03/24/2016
Status:	Active
Status Date:	03/24/2016
Place Size:	59000
Place Size Unit:	SqFt
Contact:	Brett Marciasini
Contact Title:	Administrative Director
Contact Phone:	209-368-4031
Contact Phone Ext:	Not reported
Contact Email:	hr@americanmastertech.com
Operator Name:	American MasterTech

R & L CARRIERS (Continued) **S118587471**

Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Brett Marciasini
Operator Contact Title:	Administrative Director
Operator Contact Phone:	209-368-4031
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hr@americanmastertech.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Brett Marciasini
Certifier Title:	Adminstrative Director
Certification Date:	12-APR-17
Primary Sic:	2835-In Vitro and In Vivo Diagnostic Substances
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	AMERICAN MASTERTECH
Address:	1330 THURMAN ST.
City,State,Zip:	LODI, CA 95240
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	469955
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39NEC001941

R & L CARRIERS (Continued) **S118587471**

Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/24/2016
Termination Date Of Regulatory Measure:	11/30/2020
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1330 East Thurman Road
Discharge Name:	American MasterTech
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	469955
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/24/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	American MasterTech
Discharge Address:	1330 East Thurman Road
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported

R & L CARRIERS (Continued) **S118587471**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	469955
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

R & L CARRIERS (Continued) **S118587471**

Received Date:	03/01/2016
Processed Date:	03/24/2016
Status:	Active
Status Date:	03/24/2016
Place Size:	59000
Place Size Unit:	SqFt
Contact:	Brett Marciasini
Contact Title:	Administrative Director
Contact Phone:	209-368-4031
Contact Phone Ext:	Not reported
Contact Email:	hr@americanmastertech.com
Operator Name:	American MasterTech
Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Brett Marciasini
Operator Contact Title:	Administrative Director
Operator Contact Phone:	209-368-4031
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hr@americanmastertech.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Brett Marciasini
Certifier Title:	Adminstrative Director
Certification Date:	12-APR-17
Primary Sic:	2835-In Vitro and In Vivo Diagnostic Substances
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

R & L CARRIERS (Continued) **S118587471**

CIWQS:

Name:	AMERICAN MASTERTECH
Address:	1330 THURMAN ST.
City,State,Zip:	LODI, CA 95240
Agency:	American MasterTech
Agency Address:	1330 East Thurman Road, Lodi, CA 95240
Place/Project Type:	Industrial - In Vitro and In Vivo Diagnostic Substances
SIC/NAICS:	2835
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39NEC001941
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/24/2016
Termination Date:	11/30/2020
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	38.12804
Longitude:	-121.24906

CERS:

Name:	CEPHEID - BUILDING 4
Address:	1330 THURMAN ST
City,State,Zip:	LODI, CA 95240
Site ID:	573368
CERS ID:	10184947
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	573368
Site Name:	Cepheid - Building 4
Violation Date:	03-19-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/19/2015. The Hazardous Materials Inventory forms for 110 gallons of Toluene was not submitted to CERS as part of the Hazardous Material Business Plan. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	573368

R & L CARRIERS (Continued) **S118587471**

Site Name:	Cepheid - Building 4
Violation Date:	07-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/17/2018. A site map was not completed with all required elements. The site map did not include the locations of the hazardous materials storage areas. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	573368
Site Name:	Cepheid - Building 4
Violation Date:	07-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/17/2018. 250 gallons tank of EOSIN Y, 450 gallons tank of 10% Formalin, and 240 gallons of Harris Heamtoxylin found of site were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	573368
Site Name:	Cepheid - Building 4
Violation Date:	07-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 08/17/2018. The emergency response procedures were lacking or inadequate. The emergency response contingency plan did not list the CUPA/SJC EHD phone number . The CUPA/SJC EHD phone number is(209)468-3420. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures

R & L CARRIERS (Continued) **S118587471**

for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Violation is corrected on site. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite for a final Hazardous Materials Business Plan (HMBP) program inspection. Facility is scheduled to close permanently at this location on 7-15-2020. No hazardous materials above the reportable quantities were noted during this inspection. Based on today s inspection, this facility s HMBP program will be inactivated. The facility shall make a California Environmental Reporting System (CERS) submittal to reflect the inactivation of the HMBP program. If this facility becomes subject to the HMBP regulations in the future, the facility shall notify the Environmental Health Department and make all appropriate CERS submittals.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite for a final Hazardous Waste program inspection. The facility is scheduled to close permanently at this location on 7-15-2020. The following items need to be addressed before hazardous waste program at this facility can be inactivated: 1. Dispose of the 1-gallon plastic container with <=1% uranyl nitrate solution observed during today s inspection, provide final disposal record to the EHD. 2. Dispose of the lead shielded container observed inside the vent hood during today s inspection, provide final disposal record to the EHD 3. Copies of the following initial hazardous waste manifests were received today: 020426971JJK, 020426970JJK, 020427507JJK, 020426954JJK, and 020427517

R & L CARRIERS (Continued) **S118587471**

JJK; provide all final hazardous waste manifests to the EHD, once they become available. 4. Once all remaining hazardous waste has been disposed of, the facility shall make a California Environmental Reporting System (CERS) submittal to reflect the inactivation of the hazardous waste program.

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a Hazardous Materials Business Plan (HMBP) inspection. There were three violations during the inspection .complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 08/17/2018. Notes: The facility has 310 gallons of Isporpynol and listed 220 gallons in CERS chemical inventory. Ensure all th listed chemicals quantities are entered accurately. The chemical inventory form listed the Hot Room and Warehouse as the locations of the hazardous materials on this site. However, these locations were not indicated on the site map. It is recommended to include these locations on the site map.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 573368
Site Name: Cepheid - Building 4
Site Address: 1330 THURMAN ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-19-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 573368
Site Name: Cepheid - Building 4
Site Address: 1330 THURMAN ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-18-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

R & L CARRIERS (Continued) **S118587471**

Coordinates:

Site ID:	573368
Facility Name:	Cepheid - Building 4
Env Int Type Code:	HMBP
Program ID:	10184947
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.128020
Longitude:	-121.249050

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Divya Narasimhan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lana Karpuk
Entity Title:	Not reported
Affiliation Address:	1330 THURMAN ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	1330 THURMAN ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-5283,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Cepheid Lodi, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	Divya Narasimhan
Entity Title:	Engineer/ Yorke Engineering, LLC
Affiliation Address:	Not reported
Affiliation City:	Not reported

R & L CARRIERS (Continued) **S118587471**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(408) 541-4191,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1330 E Thurman Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

HWTS:

Name:	R & L CARRIERS
Address:	1330 THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAC002877110
Inactive Date:	12/09/2016
Create Date:	09/08/2016
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4143 JESSUP RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CERES, CA 95307
Owner Name:	R & L CARRIERS
Owner Address:	4143 JESSUP RD
Owner Address 2:	Not reported
Owner City,State,Zip:	CERES, CA 95307
Contact Name:	TINA BREEZLEY
Contact Address:	4143 JESSUP RD
Contact Address 2:	Not reported
City,State,Zip:	CERES, CA 95307

R & L CARRIERS (Continued) **S118587471**

Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	-90
Longitude:	180

G27 **AMERICAN MASTER TECH** **RCRA NonGen / NLR** **1024864904**
South **1330 THURMAN ST** **CAL000433471**
< 1/8 **LODI, CA 95240**
0.100 mi.
528 ft. **Site 3 of 3 in cluster G**

Actual: **59 ft.**

Focus Map: **10**

RCRA NonGen / NLR:

Date Form Received by Agency:		20200724
Handler Name:	AMERICAN MASTER TECH	
Handler Address:		1330 THURMAN ST
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAL000433471
Contact Name:		EARL THOMAS
Contact Address:		CROW CANYON PL STE 115
Contact City,State,Zip:		SAN RAMON, CA 94583
Contact Telephone:		916-362-2265 x109
Contact Fax:		916-380-6759
Contact Email:		E-THOMAS@SCM-SAFETY.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 2539
Mailing City,State,Zip:		LODI, CA 95241
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	BRANDON JONES	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported

AMERICAN MASTER TECH (Continued) **1024864904**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200803
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: AMERICAN MASTERTECH SCIENTIFIC LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1330 THURMAN ST
Owner/Operator City,State,Zip:	LODI, CA 92540
Owner/Operator Telephone:	800-860-4073
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRANDON JONES	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

AMERICAN MASTER TECH (Continued) **1024864904**

Owner/Operator Address: 1330 THURMAN ST
Owner/Operator City,State,Zip: LODI, CA 95241
Owner/Operator Telephone: 619-787-4568
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: FRANK FRENES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1330 THURMAN ST
Owner/Operator City,State,Zip: LODI, CA 92540
Owner/Operator Telephone: 800-860-4073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200724
Handler Name: AMERICAN MASTER TECH
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20180205
Handler Name: AMERICAN MASTERTECH SCIENTIFIC LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 325413
NAICS Description: IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

28
South
< 1/8
0.102 mi.
536 ft.

SCIENTIFIC SPECIALTIES INC
1310 THURMAN ST
LODI, CA 95240

RCRA NonGen / NLR

1024799129
CAL000207603

Actual:
59 ft.

Focus Map:
10

RCRA NonGen / NLR:

Date Form Received by Agency:		19990830
Handler Name:	SCIENTIFIC SPECIALTIES INC	
Handler Address:		1310 THURMAN ST
Handler City,State,Zip:		LODI, CA 95240-0000
EPA ID:		CAL000207603
Contact Name:		BILL SCHMIERER CFO
Contact Address:		1310 THURMAN ST
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-333-2120
Contact Fax:		209-333-8623
Contact Email:		B.SCHMIERER@SSIBIO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1310 THURMAN ST
Mailing City,State,Zip:		LODI, CA 95240-0000
Owner Name:	SCIENTIFIC SPECIALTIES INC	
Owner Type:		Other
Operator Name:	BILL SCHMIERER CFO	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **1024799129**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SCIENTIFIC SPECIALTIES INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1310 THURMAN ST
Owner/Operator City,State,Zip:	LODI, CA 95240-0000
Owner/Operator Telephone:	209-333-2120
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BILL SCHMIERER CFO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1310 THURMAN ST
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-333-2120
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **1024799129**

Historic Generators:
Receive Date: 19990830
Handler Name: SCIENTIFIC SPECIALTIES INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H29 **SCHAEFER SYTEMS LLC** **CERS HAZ WASTE** **S121775643**
South **1250 E THURMAN RD** **CERS TANKS** **N/A**
< 1/8 **LODI, CA 95240** **CERS**
0.104 mi.
547 ft. **Site 1 of 3 in cluster H**

Actual:
59 ft.

Focus Map:
10

CERS HAZ WASTE:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Aboveground Petroleum Storage

CERS:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Chemical Storage Facilities

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Violations:

Site ID:	401624
Site Name:	SCHAEFER SYTEMS LLC
Violation Date:	06-10-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/23/2015. A training program was not uploaded to CERS website. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	401624
Site Name:	SCHAEFER SYTEMS LLC
Violation Date:	06-10-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/23/2015. 562 cubic feet of Oxygen and 246 cubic feet of Acetylene were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	401624
Site Name:	SCHAEFER SYTEMS LLC
Violation Date:	06-10-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/23/2015. The emergency response procedures were not uploaded to CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures

SCHAEFER SYTEMS LLC (Continued) **S121775643**

for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 11-08-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 12/21/2018. Map missing shut offs, emergency response equipment, loading area, access & exits, evacuation staging area, chemical storage. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 09-19-2014
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/19/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-08-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12/8/2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-10-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 7/10/2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	09-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	AST generic oir issued. SPCC plan on site. No violations noted at time of inspection.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	09-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	AST survey completed at facility.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	127c, 000 3.25 tons in 2013.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	401624
Site Name:	SCHAEFER SYTEMS LLC
Site Address:	1250 E THURMAN RD
Site City:	LODI
Site Zip:	95240
Enf Action Date:	06-10-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Enf Action Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Site Address: 1250 E THURMAN RD
Site City: LODI
Site Zip: 95240
Enf Action Date: 09-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Steve Reichow
Entity Title: Consultant
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: SCHAEFER SYTEMS LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: steve reichow
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Shannon Ramirez
Entity Title: Not reported
Affiliation Address: 1250 E Thurman Street
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Entity Name:	Morris Marlow - Agent for Owner
Entity Title:	Not reported
Affiliation Address:	10021 Westlake Drive PO Box 7009
Affiliation City:	Charlotte
Affiliation State:	NC
Affiliation Country:	United States
Affiliation Zip:	28241
Affiliation Phone:	(704) 944-4500,
Affiliation Type Desc:	Operator
Entity Name:	SSI Schaefer Systems LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 365-6030,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1250 E THURMAN RD
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

H30 **SCHAEFER SYSTEMS LLC** **RCRA NonGen / NLR** **1024798608**
South **1250 E THURMAN RD** **CAL000204751**
< 1/8 **LODI, CA 95240**
0.104 mi.
547 ft. **Site 2 of 3 in cluster H**

Actual:
59 ft.

Focus Map:
10

RCRA NonGen / NLR:

Date Form Received by Agency:		20000602
Handler Name:	SCHAEFER SYSTEMS LLC	
Handler Address:		1250 E THURMAN RD
Handler City,State,Zip:		LODI, CA 95240-0000
EPA ID:		CAL000204751
Contact Name:		SHANNON RAMIREZ
Contact Address:		1250 E THURMAN RD
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-365-6030
Contact Fax:		000-000-0000
Contact Email:		SHANNON.RAMIREZ@SSI-SCHAEFER.COM

SCHAEFER SYSTEMS LLC (Continued) **1024798608**

Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1250 E THURMAN RD
Mailing City,State,Zip:		LODI, CA 95240-0000
Owner Name:	SCHAEFER SYSTEMS LLC	
Owner Type:		Other
Operator Name:	SHANNON RAMIREZ	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported

SCHAEFER SYSTEMS LLC (Continued) **1024798608**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SHANNON RAMIREZ	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1250 E THURMAN RD
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-365-6030
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: SCHAEFER SYSTEMS LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1250 E THURMAN RD
Owner/Operator City,State,Zip:	LODI, CA 95240-0000
Owner/Operator Telephone:	209-365-6030
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20000602
Handler Name: SCHAEFER SYSTEMS LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **1024798608**

List of NAICS Codes and Descriptions:
NAICS Code: 326199
NAICS Description: ALL OTHER PLASTICS PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H31 **SCHAEFER SYTEMS LLC** **AST** **A100424267**
South **1250 E THURMAN RD** **N/A**
< 1/8 **LODI, CA 95240**
0.104 mi.
547 ft. **Site 3 of 3 in cluster H**

Actual:
59 ft.

Focus Map:
10

AST:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City/Zip: LODI,95240
Certified Unified Program Agencies: Not reported
Owner: Ken Fishel - Agent for Owner
Total Gallons: Not reported
CERSID: 10183923
Facility ID: Not reported
Business Name: SCHAEFER SYTEMS LLC
Phone: (209) 365-6030
Fax: 209 365 6031
Mailing Address: 1250 E THURMAN RD
Mailing Address City: LODI
Mailing Address State: CA
Mailing Address Zip Code: 95240
Operator Name: SSI Schaefer Systems International Inc.
Operator Phone: 209 365 6030
Owner Phone: 704 944 4500
Owner Mail Address: 10021 Westlake Drive PO Box 7009
Owner State: NC
Owner Zip Code: 28241
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: CAL000204751

I32 **WESTSIDE GARAGE AUTO REPR** **EDR Hist Auto** **1014164230**
NW **226 COMMERCE ST S** **N/A**
< 1/8 **STOCKTON, CA**
0.109 mi.
575 ft. **Site 1 of 2 in cluster I**

Actual: EDR Hist Auto
60 ft.

Focus Map: Year: Name: Type:
2 1965 WESTSIDE GARAGE AUTO REPR AUTOMOBILE REPAIRING

J33 **PACIFIC COAST PRODUCERS DISTRIBUTION CNT** **RCRA NonGen / NLR** **1024798691**
SSW **650 SO GUILD AVE** **CAL000205335**
< 1/8 **LODI, CA 95240**
0.109 mi.
576 ft. **Site 1 of 2 in cluster J**

Actual: RCRA NonGen / NLR:
62 ft.

Focus Map:
10

Date Form Received by Agency:	20001030
Handler Name:	PACIFIC COAST PRODUCERS DISTRIBUTION CNT
Handler Address:	650 SO GUILD AVE
Handler City,State,Zip:	LODI, CA 95240-0000
EPA ID:	CAL000205335
Contact Name:	MONA SHULMAN
Contact Address:	631 N CLUFF AVE
Contact City,State,Zip:	LODI, CA 95241
Contact Telephone:	209-367-6271
Contact Fax:	209-339-8815
Contact Email:	MSHULMAN@PCOASTP.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	631 N CLUFF AVE
Mailing City,State,Zip:	LODI, CA 95240-0000
Owner Name:	PACIFIC COAST PRODUCERS
Owner Type:	Other
Operator Name:	MONA SHULMAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported

PACIFIC COAST PRODUCERS DISTRIBUTION CNT (Continued) **1024798691**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: PACIFIC COAST PRODUCERS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	631 N. CLUFF AVENUE
Owner/Operator City,State,Zip:	LODI, CA 95240-0000
Owner/Operator Telephone:	209-367-6271
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MONA SHULMAN	

PACIFIC COAST PRODUCERS DISTRIBUTION CNT (Continued) **1024798691**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	631 N CLUFF AVE
Owner/Operator City,State,Zip:	LODI, CA 95241
Owner/Operator Telephone:	209-367-6271
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20001030
Handler Name:	PACIFIC COAST PRODUCERS DISTRIBUTION CNT
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	311421
NAICS Description:	FRUIT AND VEGETABLE CANNING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

J34 **PACIFIC COAST PRODUCERS (GUILD)** **CERS HAZ WASTE** **S121774863**
SSW **650 S GUILD** **CERS** **N/A**
< 1/8 **LODI, CA 95240**
0.109 mi.
576 ft. **Site 2 of 2 in cluster J**

Actual:
62 ft.

Focus Map:
10

CERS HAZ WASTE:

Name:	PACIFIC COAST PRODUCERS (GUILD)
Address:	650 S GUILD
City,State,Zip:	LODI, CA 95240
Site ID:	398885
CERS ID:	10184465
CERS Description:	Hazardous Waste Generator

CERS:

Name:	PACIFIC COAST PRODUCERS (GUILD)
Address:	650 S GUILD
City,State,Zip:	LODI, CA 95240
Site ID:	398885
CERS ID:	10184465

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 10-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 11/15/2016. The emergency response procedures were not uploaded to the CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 10-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 11/15/2016. A training program was not uploaded to CERS website . Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

	characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/21/2020. OBSERVATION: A hazardous waste container was observed on-site with incomplete labeling. The container was: - one 55-gallon drum containing used oil located in the hazardous material storage room was missing the hazardous property. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: The violation was corrected during the inspection by Stephanie Fogle. Stephanie marked the hazardous property to the label. No further action is required to correct this violation.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	09-21-2020
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/26/2020. OBSERVATION: This facility is processing universal waste aerosol cans without submitting a complete notification or amended notification to the San Joaquin County Environmental Health Department (EHD). REGULATION GUIDANCE: (j) (1) A universal waste handler that processes universal waste aerosol cans shall, no later than the date on which the handler first initiates this activity, submit a notification to the San Joaquin County Environmental Health Department by certified mail or in person. (2) Each notification submitted pursuant to this subdivision shall be completed, dated, and signed according to the requirements of Section 66270.11 of Title 22 of the California Code of Regulations, and shall include, but not be limited to, all of the following information: (A) The name, identification number, site address, mailing address, and telephone number of the handler. (B) A description of the universal waste aerosol can processing activities, including the type and estimated
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	09-21-2020
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/26/2020. OBSERVATION: The facility is processing universal waste aerosol cans without developing and implementing a written operating procedure detailing the safe processing of universal waste aerosol cans. The aerosol puncturing unit is located in the forklift maintenance area. REGULATION GUIDANCE: (4) The handler ensures that the processing operations are performed

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

safely by developing and implementing a written operating procedure detailing the safe processing of universal waste aerosol cans. This procedure shall, at a minimum, include all of the following: (A) The type of equipment to be used to process the universal waste aerosol cans safely. (B) Operation and maintenance of the unit. (C) Segregation of incompatible wastes. (D) Proper waste management practices, including ensuring that flammable wastes are stored away from heat and open flames. (E) Waste characterization. CORRECTIVE ACTION: Develop and implement a written operating procedure describing the safe proce

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 01/27/2021. OBSERVATION: The following hazardous waste containers were found on-site with an accumulation start date of greater than 180 days: - one 55-gallon drum containing used absorbent and oily paper with accumulation start date 03-10-20 - one 55-gallon drum containing hazardous waste used oil filters with accumulation start date 03-10-20 - one 55-gallon drum containing waste paint ink with accumulation start date 03-10-20 REGULATION GUIDANCE: (a) Except as provided in subsections (c) and (d) of this section and section 66262.35, a generator may accumulate hazardous waste on-site for 90 days or less without a permit or grant of interim status, provided that: (b) The beginning of the 90 day period specified in subsections (a) and (c) of this section is determined as follows: (1) if the generator does not generate more than 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste (listed in section 66261.33(e)) or one kilogram of extremely hazardous waste duri
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: Returned to compliance on 09/21/2020. OBSERVATIONS: Observed an oily absorbent paper in the trash bin near the forklift maintenance area. REGULATION GUIDANCE: Any person who generates a waste shall determine

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

if the waste is a hazardous waste as specified in Title 22 California Code of Regulations (CCR). There are wastes that are listed as hazardous wastes. There are wastes that exhibit one or more of the hazardous waste characteristics: toxic, corrosive, reactive or ignitable. CORRECTIVE ACTION: The violation was corrected during the inspection by facility personnel. The oily paper was put in the 55-gal Non-RCRA Hazardous Waste oily solids drum. No further action is required to correct this violation.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Description: Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.
Violation Notes: Returned to compliance on 10/26/2020. OBSERVATION: In hazardous materials storage room, observed a fire extinguisher with gauge pointing to recharge . REGULATION GUIDANCE: All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. CORRECTIVE ACTION: Bring the fire extinguisher into proper working order by repair, replacement or testing. Provide a corrective action statement to the San Joaquin County Environmental Health Department within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 11/18/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2020
Violations Found: Yes
Eval Type: Routine done by local agency

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection. A complete report was finished on October 6, 2020 and replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report. Waste Streams Observed: used oil, used antifreeze, oily solids (used absorbent, oily paper), used oil filters, hazardous waste liquid drained from punctured aerosol cans, waste paint ink Documents Provided: Schedule of Free CUPA Classes, Aerosol Can Processing Notification form, Health and Safety Code 25201.16 (a) Requirements for Notification of Aerosol Can Treatment, DTSC Aerosol Can Waste Treatment Fact Sheet, Return to Compliance Certification form Amount of HW Generated in Last Calendar Year (Jan-Dec) in Tons: 1.10
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Site Address: 650 S GUILD
Site City: LODI
Site Zip: 95240
Enf Action Date: 10-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Identification Signer
Entity Name: Stephanie Fogle
Entity Title: EHS Supervisor (Guild)
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: COOPERATIVE OF FARMERS

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Entity Title:	Not reported
Affiliation Address:	650 S. Guild Avenue
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 365-5429,
Affiliation Type Desc:	Document Preparer
Entity Name:	Stephanie Fogle
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	PACIFIC COAST PRODUCERS (GUILD)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	650 S. Guild Avenue
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Pacific Coast Producers
Entity Title:	Not reported
Affiliation Address:	650 S. Guild Avenue
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 367-6200,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Shawn Hiatt
Entity Title:	Not reported
Affiliation Address:	631 N. Cluff Ave.
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Affiliation Type Desc:	Operator
Entity Name:	Pacific Coast Producers
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 365-5423,

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35 **A J HANDEL JR** **HIST UST** **U001604206**
East **15277 N CURRY AVE** **N/A**
< 1/8 **LODI, CA 95240**
0.110 mi.
581 ft.

Actual: **61 ft.**
Focus Map: **10**

HIST UST:

Name:	A J HANDEL JR
Address:	15277 N CURRY AVE
City,State,Zip:	LODI, CA 95240
File Number:	0002F93A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F93A.pdf
Region:	STATE
Facility ID:	00000033511
Facility Type:	Other
Other Type:	FARMING
Contact Name:	Not reported
Telephone:	2093692734
Owner Name:	A J HANDEL, JR.
Owner Address:	224 NO. FAIRMONT
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1974
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Click here for Geo Tracker PDF:

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36 **GEORGE IWAMIYA** **HIST UST** **U001604332**
East **15661 N CURRY AVE** **N/A**
< 1/8 **LODI, CA 95240**
0.110 mi.
582 ft.

Actual: **62 ft.**
Focus Map: **10**

HIST UST:

Name:	GEORGE IWAMIYA
Address:	15661 N CURRY AVE
City,State,Zip:	LODI, CA 95240
File Number:	0002FC95

GEORGE IWAMIYA (Continued) **U001604332**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FC95.pdf
Region:	STATE
Facility ID:	00000037041
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2093684029
Owner Name:	GEORGE IWAMIYA
Owner Address:	15661 N CURRY AVE
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1980
Tank Capacity:	00000350
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	1
Year Installed:	1970
Tank Capacity:	00000350
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

K37 **RICHARD D DIEKMAN** **HIST UST** **U001604492**
East **15415 N CURRY AVE** **N/A**
< 1/8 **LODI, CA 95240**
0.110 mi.
583 ft. **Site 1 of 2 in cluster K**

Actual:
61 ft.

Focus Map:
10

HIST UST:

Name:	RICHARD D DIEKMAN
Address:	15415 N CURRY AVE
City,State,Zip:	LODI, CA 95240
File Number:	0002B203
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B203.pdf
Region:	STATE
Facility ID:	00000044214
Facility Type:	Other
Other Type:	FARM
Contact Name:	RICHARD DIEKMAN
Telephone:	2093692938
Owner Name:	RICHARD D. DIEKMAN
Owner Address:	15415 N. CURRY AVE.
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported

RICHARD D DIEKMAN (Continued) **U001604492**

Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	10
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	12
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	10
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

38
South
< 1/8
0.111 mi.
587 ft.

PACIFIC GAS & ELECTRIC, LOCKEFORD SUB, MANIFESTS **RCRA NonGen / NLR** **1024775601**
12861 EAST KETTLEMAN LANE **CAC002995533**
LOCKEFORD, CA 95240

Actual:
82 ft.

Focus Map:
13

RCRA NonGen / NLR:

Date Form Received by Agency:	20190108
Handler Name:	PACIFIC GAS & ELECTRIC, LOCKEFORD SUB, MANIFESTS
Handler Address:	12861 EAST KETTLEMAN LANE
Handler City,State,Zip:	LOCKEFORD, CA 95240
EPA ID:	CAC002995533
Contact Name:	STEVE DIOSZEGI
Contact Address:	4400 E. HWY 140
Contact City,State,Zip:	MERCED, CA 94120
Contact Telephone:	209-814-4504
Contact Fax:	Not reported
Contact Email:	SLDN@PGE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,State,Zip:	SAN FRANCISCO, CA 94120
Owner Name:	PACIFIC GAS & ELECTRIC, LOCKEFORD S
Owner Type:	Other

PACIFIC GAS & ELECTRIC, LOCKEFORD SUB, MANIFESTS (Continued) **1024775601**

Operator Name:	STEVE DIOSZEGI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190222
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

PACIFIC GAS & ELECTRIC, LOCKEFORD SUB, MANIFESTS (Continued) **1024775601**

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: PACIFIC GAS & ELECTRIC, LOCKEFORD S
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 7640
Owner/Operator City,State,Zip: SAN FRANCISCO, CA 94120
Owner/Operator Telephone: 209-814-4504
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: STEVE DIOSZEGI
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4400 E. HWY 140
Owner/Operator City,State,Zip: MERCED, CA 94120
Owner/Operator Telephone: 209-814-4504
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20190108
Handler Name: PACIFIC GAS & ELECTRIC, LOCKEFORD SUB, MANIFESTS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 221121
NAICS Description: ELECTRIC BULK POWER TRANSMISSION AND CONTROL

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

39
South
< 1/8
0.120 mi.
633 ft.

SHARBOB, INC DBA LOCKFORD BEAC
13975 N HIGHWAY 88
LODI, CA 95237

HIST UST **U001604198**
N/A

Actual:
72 ft.

Focus Map:
20

HIST UST:

Name:	SHARBOB, INC DBA LOCKFORD BEAC
Address:	13975 N HIGHWAY 88
City,State,Zip:	LODI, CA 95237
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000014331
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	ROBERT WHEELER
Telephone:	2097273464
Owner Name:	ROBERT & SHARON PHILLIPS
Owner Address:	11490 ALPINE RD
Owner City,St,Zip:	STOCKTON, CA 95212
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1964
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Sensor Instrument
Tank Num:	002
Container Num:	2
Year Installed:	1964
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Sensor Instrument
Tank Num:	003
Container Num:	3
Year Installed:	1964
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Sensor Instrument
Tank Num:	004
Container Num:	4
Year Installed:	1974
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Sensor Instrument

I40 **JOES AUTOMOTIVE OF LODI** **CERS HAZ WASTE** **S121766727**
NNW **200 COMMERCE ST #101** **CERS** **N/A**
< 1/8 **LODI, CA 95240**
0.123 mi.
651 ft. **Site 2 of 2 in cluster I**

Actual:
60 ft.

Focus Map:
2

CERS HAZ WASTE:
Name: JOES AUTOMOTIVE OF LODI
Address: 200 COMMERCE ST #101
City,State,Zip: LODI, CA 95240
Site ID: 361480
CERS ID: 10184575
CERS Description: Hazardous Waste Generator

CERS:
Name: JOES AUTOMOTIVE OF LODI
Address: 200 COMMERCE ST #101
City,State,Zip: LODI, CA 95240
Site ID: 361480
CERS ID: 10184575
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: OBSERVATION: The site map is incomplete. The site map is missing the following required elements: -loading area -internal roads -storm drain: 1 storm drain was observed in the parking lot -emergency shut-offs REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: OBSERVATION: The facility could not provide all of the consolidated manifest receipts for hazardous waste transported from the site in the past three years. The missing receipts include: -07/18/2019 for used oil -10/28/2019 for used antifreeze -2/25/2020 for used oil

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

-07/02/2020 for used antifreeze REGULATION GUIDANCE: The generator shall retain each consolidated manifest receipt for at least three years. This period of retention is extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the department or a certified unified program agency. CORRECTIVE ACTION: Locate a copy of the receipts listed above. Maintain the records on-site for three years from the date of shipping and provide a copy to the San Joaquin County Environmental Health Department (EHD). If the receipts cannot be found, provide a statement to the EHD that future receipts will be maintained on-site for three years.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 07/24/2018. Inside the shop is a black 55 gallon drum that Jose states he is using for used oil storage. This container is partially full, unlabeled and dented. Hazardous waste shall be stored in a container that is in good condition. Immediately transfer all hazardous wastes into containers that are in good condition or have hazardous wastes properly disposed of by a licensed hazardous waste hauler under a proper manifest. Submit a copy of the disposal receipt.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes: Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area are dark oil stains on the unpaved ground. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the contaminated rocks, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	OBSERVATION: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was last submitted on 02/08/2017. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	12-09-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area is an unlabeled five gallon bucket of drained used oil filters that has been left open. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately keep all drained used oil filters in a closed container, labeled as "drained used oil filters", and ensure that all used oil filters are managed in this way. Bills of lading for the recycling of used oil filters for the 2015 year was not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading for used oil filters for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	12-09-2015
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.

Violation Notes: Returned to compliance on 07/27/2018. Copies of hazardous waste disposal records for 2015 were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes: OBSERVATION: A training program was lacking. The facility reported in CERS that they are exempt from a training plan because they have "no employees". Owner Jose Gomez confirmed during the inspection that he has one employee. REGULATION GUIDANCE: Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration the position o
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: OBSERVATION: Observed one black metal 55 gallon drum of drained used metal oil filters to be out of compliance with the storage rules. REGULATION GUIDANCE: Title 22 California Code of Regulations section

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

66266.130 Management of Used Oil Filters. California Health & Safety Code section 25250.22 Fuel Filters CORRECTIVE ACTION: Immediately drain all metal oil and fuel filters of free-flowing liquid, store them in closed, rainproof containers. Label the container with the words drained used oil filters or "used gasoline filters", depending on the contents. Mark the container with an accumulation start date. Dispose of all used filters stored on-site greater than one year. Used filters not stored, handled and disposed of according to this section are regulated as hazardous waste. Provide a corrective action statement, disposal records and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: OBSERVATION: The emergency response(ER) plan is inaccurate. The employee training (section I) was marked "Not applicable because facility has not employees". This information is inaccurate because owner Jose Gomez confirmed during the inspection that he has one employee. REGULATION GUIDANCE: A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submi
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 07/24/2018. Outside behind the shop at the hazardous waste storage area is a partially full 55 gallon drum of hazardous waste coolant that was left open. Next to the open drum of hazardous waste coolant are three partially full five gallon buckets of used oil that have been left open. Jose Gomez confirmed that he considers his metal fines a hazardous waste. Inside the shop, the hazardous waste metal fines from the brake lathe machine have been allowed to accumulate in two, open, and unlabeled containers. All

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

	hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2021. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: -one black metal 55 gallon drum of used filters was missing contents -one blue metal 55 gallon drum of used oil had an old label that was faded and no longer legible -one red metal 55 gallon drum of used oil had an old label that was faded and no longer legible -one white plastic 55 gallon drum of used antifreeze had an old label that was faded and no longer legible -one black metal 55 gallon drum of used filters was not labeled REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: This violation was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	02-08-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 02/08/2017. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Violation Date:	12-09-2015
Citation:	HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 02/08/2017. A submission to the California Electronic Reporting System (CERS) for the hazardous waste program has not been made. Beginning January 1, 2013, all businesses are required to submit all new (or any changes to existing) hazardous waste information online to the CERS at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	02-08-2017
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 02/08/2017. The Business Owner/Operator Identification form was not submitted . This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description:	Failure to retain for at least three years a legible copy of each manifest or bill of lading which identifies spent lead-acid storage batteries shipped to a person who stores the batteries or who uses, reuses, recycles or reclaims the batteries or their components.
Violation Notes:	OBSERVATION: Bills of lading for the recycling of lead acid batteries from 10/06/2018 through 10/06/2021 were not found on site. REGULATION GUIDANCE: Title 22 California Code of Regulations section 66266.81 Requirements CORRECTIVE ACTION: Provide copies of battery core bill of lading records and a corrective action statement to the San Joaquin County Environmental Health Department within 30 days.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	OBSERVATION: This business did not provide a written response to the inspection report dated 12/09/2015 within 30 days. The amended report was provided to the business on 12/10/2015. REGULATION GUIDANCE: The operator of the site or facility which receives an inspection report shall submit a written response to the department or the local officer or agency authorized to enforce this chapter pursuant to subdivision (a) of Section 25180 within 60 days of receipt of the inspection report, or within a shorter time as the department or the local officer or agency may reasonably require, which shall include a statement documenting corrective actions taken by the operator or proposing corrective actions which will be taken by the operator, for purposes of compliance with this chapter, or disputing the existence of the violation. The local agency, the San Joaquin County Environmental Health Department, requires response within 30 days. CORRECTIVE ACTION: Provide a corrective action st
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description:	Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes:	OBSERVATION: Facility could not provide the Emergency Response Plan and the inventory information upon request. REGULATION GUIDANCE: The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. CORRECTIVE ACTION: Immediately make arrangements to have the business plan readily available for review.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description:	Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

(e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.

Violation Notes: OBSERVATION: Three empty 55 gallon drums which previously held a hazardous material were observed outside on the south end of the garage without proper labeling. REGULATION GUIDANCE: Empty containers which previously held a hazardous material, including hazardous waste must be managed per Title 22 California Code of Regulations (CCR) section 66261.7. Refer to this section and California Department of Toxic Substances Control guidance for more information. CORRECTIVE ACTION: Immediately label all empty containers with the date they were emptied and manage within one year of that date. Manage the container per Title 22 CCR section 66261.7. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area were found the following containers: - Three, unlabeled, and partially full five gallon buckets of used oil that have been left open. - An open, partially full, 55 gallon drum of hazardous waste coolant has a blank and illegible hazardous waste label. - A closed partially full 55 gallon drum of hazardous waste coolant does not have any of the required hazardous waste labeling information on it. - Thirteen closed and unlabeled one gallon containers of used oil. - One closed and unlabeled two liter container of used oil. - Three (one red, one blue, and one black) 55 gallon drums of used oil that do not have all the required hazardous waste labeling information on it. - The black drum does not have any of the required hazardous waste labeling information on it. - The blue and the red one have hazardous waste labels that incompletely list the company name and the wrong street address on it. Jose [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

storing/handling a hazardous material at or above reportable quantities.

Violation Notes: Returned to compliance on 02/08/2017. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 02/08/2017. The emergency response procedures were not uploaded to CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: OBSERVATION: The following hazardous waste containers were found on-site with an accumulation start date of greater than 180 days: 1 black metal 55 gallon drum of used filters had an accumulation start date of 03/22/2016. REGULATION GUIDANCE: Title 22 California Code of Regulations section 66262.34. CORRECTIVE ACTION: Immediately dispose

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

of the hazardous waste stored on site greater than 180 days in compliance with Title 22 California Code of Regulations. Provide a corrective action statement and a copy of the disposal records to the San Joaquin County Environmental Health Department (EHD) within 30 days.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain disposal records of spent lead batteries for three years.
Violation Notes: Returned to compliance on 07/27/2018. Bills of lading or manifests for the management of lead acid batteries for 2012, 2013, and 2015 were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading or manifests for lead acid batteries for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/08/2017. 110 gallons waste oil, 110 gallons waste antifreeze, 110 gallons new oil were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: OBSERVATION: Training has not been provided to facility employees. REGULATION GUIDANCE: The business plan shall include provisions for

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appropri

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. This report was revised on 12-10-15. This is an amended report that supersedes all previously issued reports for this inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1-15-16. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. Note: This facility has the following waste streams: - used oil - used coolant - oily water - drained used oil filters - used parts washer solution - spent lead acid batteries
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-08-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/10/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-06-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 5, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report, return to compliance certification form, corrective action statement, and list of free CUPA classes. Waste streams found: used oil, used antifreeze, used filters, shop rags, aerosol cans, parts washer solution and lead-acid batteries Note: Discussed with owner Jose Gomez regarding the facility's expired California EPA identification number.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-06-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 6 violations during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 5, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Site Address: 200 COMMERCE ST #101
Site City: LODI
Site Zip: 95240
Enf Action Date: 02-08-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Site Address: 200 COMMERCE ST #101

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Site City: LODI
Site Zip: 95240
Enf Action Date: 12-09-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jose A Gomez
Entity Title: Not reported
Affiliation Address: 200 Commerce St. Ste 101
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 200 COMMERCE ST #101
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jose A Gomez
Entity Title: Owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: GOMEZ, JOSE
Entity Title: Not reported
Affiliation Address: 200 COMMERCE ST #101
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 367-9860,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jamie Lima
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	JOES AUTOMOTIVE OF LODI
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	GOMEZ, JOSE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 367-9860,

41
North
1/8-1/4
0.129 mi.
680 ft.

HUBERT METTLER **HIST UST** **U001604373**
14413 N LOCUST TREE RD **N/A**
LODI, CA 95240

Actual:
72 ft.

Focus Map:
12

HIST UST:

Name:	HUBERT METTLER
Address:	14413 N LOCUST TREE RD
City,State,Zip:	LODI, CA 95240
File Number:	0002FD3B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FD3B.pdf
Region:	STATE
Facility ID:	00000037054
Facility Type:	Other
Other Type:	FARMING
Contact Name:	Not reported
Telephone:	2093696445
Owner Name:	HUBERT METTLER
Owner Address:	14413 N. LOCUST TREE RD
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002

HUBERT METTLER (Continued) **U001604373**

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

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42 **METTLER PROPERTY** **UST** **U004024361**
South **14090 N ALPINE RD** **N/A**
1/8-1/4 **LODI, CA 95240**
0.133 mi.
701 ft.

Actual:
63 ft.

Focus Map:
19

UST SAN JOAQUIN:

Name:	METTLER PROPERTY
Address:	14090 N ALPINE RD
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0007276
Mail Address:	13939 N ALPINE RD
Mail Address 2:	Not reported
Mail Care of:	LEROY METTLER
Mail City,St,Zip:	LODI, CA 95240

Tank Rec ID:	TA0506254
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	550
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2322
Decode for Program Element:	2322 - EXEMPT UST
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	10
Common Name:	NONE HEATING OIL
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1068546461
Longitude:	-121.2139245861

Tank Rec ID:	TA0506255
Tank Number:	2

METTLER PROPERTY (Continued) **U004024361**

Tank Status:	02 - Inactive, non-billable
Tank Capacity:	1000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2322
Decode for Program Element:	2322 - EXEMPT UST
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	10
Common Name:	NONE HEATING OIL
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1068546461
Longitude:	-121.2139245861

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43 **GLENN C NOMA** **HIST UST** **U001604346**
East **15308 N CURRY AVE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.135 mi.
713 ft.

Actual:
60 ft.

Focus Map:
10

HIST UST:

Name:	GLENN C NOMA
Address:	15308 N CURRY AVE
City,State,Zip:	LODI, CA 95240
File Number:	0002FCC5
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FCC5.pdf
Region:	STATE
Facility ID:	00000044402
Facility Type:	Other
Other Type:	FARM
Contact Name:	Not reported
Telephone:	2093680534
Owner Name:	GLENN C. NOMA
Owner Address:	15308 N. CURRY AVE.
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1984
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

K44 **GEORGE PERLEGOS** **RCRA NonGen / NLR** **1027203975**
East **15506 N. CURRY AVE.** **CAC003167961**
1/8-1/4 **LODI, CA 95240**
0.135 mi.
714 ft. **Site 2 of 2 in cluster K**

Actual:
61 ft.

Focus Map:
10

RCRA NonGen / NLR:

Date Form Received by Agency:		20220324
Handler Name:	GEORGE PERLEGOS	
Handler Address:		15506 N. CURRY AVE.
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAC003167961
Contact Name:		GEORGE PERLEGOS
Contact Address:		15506 N. CURRY AVE.
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		408-497-4754
Contact Fax:		Not reported
Contact Email:		GPERLEGOS@YAHOO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		15506 N. CURRY AVE.
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	GEORGE PERLEGOS	
Owner Type:		Other
Operator Name:	GEORGE PERLEGOS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

GEORGE PERLEGOS (Continued) **1027203975**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220324
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GEORGE PERLEGOS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	15506 N. CURRY AVE.
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	408-497-4754
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: GEORGE PERLEGOS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	15506 N. CURRY AVE.
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	408-497-4754
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

GEORGE PERLEGOS (Continued) **1027203975**

Historic Generators:
Receive Date: 20220324
Handler Name: GEORGE PERLEGOS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

45
East
1/8-1/4
0.135 mi.
714 ft.

GARETH E HOSMER **HIST UST** **U001604327**
15542 NO CURRY AVE **N/A**
LODI, CA 95240

Actual:
62 ft.

Focus Map:
10

HIST UST:
Name: GARETH E HOSMER
Address: 15542 NO CURRY AVE
City,State,Zip: LODI, CA 95240
File Number: 0002FC73
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FC73.pdf
Region: STATE
Facility ID: 00000023666
Facility Type: Other
Other Type: FARM
Contact Name: Not reported
Telephone: 2093694386
Owner Name: GARETH E. HOSMER
Owner Address: 15542 NO. CURRY AVE.
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000250
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

GARETH E HOSMER (Continued) **U001604327**

Click here for Geo Tracker PDF:

L46 **DELTA PACKING CO** **LUST** **S100276779**
West **5950 KETTLEMAN LN E** **CHMIRS** **N/A**
1/8-1/4 **LODI, CA 95240** **Cortese**
0.137 mi. **HIST CORTESE**
723 ft. **Site 1 of 6 in cluster L** **CERS**

Actual:
58 ft.

Focus Map:
10

LUST REG 5:
Name: DELTA PACKING CO
Address: 5950 KETTLEMAN LN E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390530
Case Type: Soil only
Substance: REGULR GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:
Name: DELTA PACKING CO
Address: 5950 KETTLEMAN LN E
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700415
Global Id: T0607700415
Latitude: 38.114731
Longitude: -121.243275
Status: Completed - Case Closed
Status Date: 09/21/1998
Case Worker: Not reported
RB Case Number: 390530
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1347
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700415
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700415
Action Type: Other
Date: 07/31/1990

DELTA PACKING CO (Continued) **S100276779**

Action: Leak Reported

Global Id: T0607700415
Action Type: Other
Date: 07/18/1990
Action: Leak Discovery

LUST:
Global Id: T0607700415
Status: Open - Case Begin Date
Status Date: 07/18/1990

Global Id: T0607700415
Status: Open - Site Assessment
Status Date: 07/31/1990

Global Id: T0607700415
Status: Completed - Case Closed
Status Date: 09/21/1998

CHMIRS:
Name: Not reported
Address: 5950 KETTLEMAN LANE
City,State,Zip: LODI, CA 95240
OES Incident Number: 100466
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: **30-MAY-91**
Property Use: 650
Agency Id Number: 39807
Agency Incident Number: UNKNOWN
Time Notified: 915
Time Completed: 1050
Surrounding Area: 650
Estimated Temperature: 70
Property Management: C
More Than Two Substances Involved?: N
Resp Agncy Personel # Of Decontaminated: 0
Responding Agency Personel # Of Injuries: 0
Responding Agency Personel # Of Fatalities: 0
Others Number Of Decontaminated: 0
Others Number Of Injuries: 0
Others Number Of Fatalities: 0
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: ART BENTLEY
Report Date: 08-JUL-92
Facility Telephone: 209 468-3969
Waterway Involved: Not reported
Waterway: Not reported

DELTA PACKING CO (Continued) **S100276779**

Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	30-MAY-91
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	08-JUL-92
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	N
Description:	Not reported

CORTESE:

Name:	DELTA PACKING CO
Address:	5950 KETTLEMAN LN E
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700415
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported

DELTA PACKING CO (Continued) **S100276779**

Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: DELTA PACKING CO
edr_fadd1: 5950 KETTLEMAN
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390530

CERS:
Name: DELTA PACKING CO
Address: 5950 KETTLEMAN LN E
City,State,Zip: LODI, CA 95240
Site ID: 215382
CERS ID: T0607700415
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

L47 **DELTA PACKING COMPANY OF LODI** **CERS HAZ WASTE** **S101625681**
West **5950 E KETTLEMAN LANE** **SWEEPS UST** **N/A**
1/8-1/4 **LODI, CA 95240** **HIST UST**
0.137 mi. **CA FID UST**
723 ft. **Site 2 of 6 in cluster L**

Actual: **58 ft.**
Focus Map: **10**

CERS HAZ WASTE:
Name: DELTA PACKING 5950
Address: 5950 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
Site ID: 391293
CERS ID: 10181721
CERS Description: Hazardous Chemical Management

Violations:
Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 12-09-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 01/02/2020. The business plan information has not been reviewed and resubmitted in the California Environmental

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Reporting System (CERS) annually. The last submittal for the Facility Information and Chemical Inventory and the Emergency Response and Training Plan was on 11/30/2016. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 12-09-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 01/02/2020. A site map was not completed and submitted as part of the business plan Annually. The last submittal of the site map was on November 30, 2016. The submitted site map does not address the location of the Adjacent streets, internal roads, storm drains, and chemical loading area(s). A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 11-01-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/29/2016. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) since 01/30/2015. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 12-09-2019

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/02/2020. The emergency response procedure (ERP) has not been submitted to CERS since November 30, 2016. The ERP is not updated. All n One Design (Chad Clark) stopped working for the business as a consultant in 2018 and he is still listed in the emergency response plan as an emergency contact . The listed phone number in the ERP for SJC EHD is (209) 953-6200. This phone number is incorrect. The correct phone number is (209)468-3420. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/29/2016. Complete training records were not available during the inspection. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/02/2020. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). The last submittal of the business plan was on November 11, 2016. As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

	CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/01/2016. HVE CWT 530, and 55 gallons of Gasoline were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/02/2020. The Federal Hazard Categories have not been updated to the new 24 hazard categories for all the chemicals reported in CERS. The Hazardous Materials inventory has not been updated and submitted to CERS since November 30, 2016.. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 11/29/2016. The emergency response procedures were not update with correct information . A business plan shall include the following emergency response procedures for a

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 12-09-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 01/02/2020. The Business Owner/Operator Identification form was not submitted annually. The last submittal of the business plan was on November 11, 2016 . This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 391293
Site Name: Delta Packing 5950
Violation Date: 12-09-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 01/02/2020. A training program was not submitted to CERS Annually. The training Program has not been submitted to CERS since November 30, 2016. The training program uploaded to CERS is not updated. The Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration of each employee. Immediately prepare
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-25-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations were noted at the time of the inspection. The routine inspection was also part of the evaluation review for the RMP submittal. Comments were not received from the formal public review period. Notes: The last five-year Hazard Review/Process Hazard Analysis (PHA) was completed on 9/30/2015. There are six recommendations all of which are open. All recommendations must be completed within one year of the PHA. If more time is required, a written request must be received by our department for approval for up to 2.5 years. All PHA recommendations must be kept for the life of the process. Our department must be invited to participate in the next PHA in 2020 once it has been scheduled. An initial seismic assessment has not be completed as part of the external events analysis of the PHA. Ensure that a qualified engineer (civil, mechanical, structural) conducts the initial seismic assessment. Any deficiencies noted in the initial seismic assessment must be [Truncated]
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12/01/2016 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-09-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Plan inspection. There were seven violations during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by January 08, 2020 . Note: Pat Coe retired as of December 01,2019 and is listed as the secondary emergency contact in CERS, and one the emergency contacts in the emergency response plan. Update this information by December 30, 2019. The facility is no longer storing propane, gasoline oil, and waste oil at this site. If you are planning not to store these chemical at this location, update the chemical inventory and the site map in CERS.

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-05-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to meet with Chad Clark, Silvestre Hernandez and Paul Poultre regarding the layout of the facility in relation to the other two facilities nearby. This is a stand-alone facility with its own HPR and mechanical room.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Conducted a billable routine inspection. See the daily entry for service code 001 for details.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CalARP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An inspection checklist was provided to the facility operator on the day of inspection. The EHD has written the complete report on October 24, 2019 which replaces the initial checklist. No violations were observed at the 5950 E. Kettleman Ln facility. Waste Streams Observed: refrigeration oil Documents Provided: Schedule of free CUPA classes, Return to Compliance Certification and Corrective Statements forms Note: Delta Packing Company of Lodi can combine the facilities at 6021 E. Kettleman Ln. and 5950 E. Kettleman Ln. under one hazardous waste small generator permit. If Delta Packing would like to consolidate their permit, the San Joaquin County Environmental Health Department can facilitate the process.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	391293
Site Name:	Delta Packing 5950
Site Address:	5950 E KETTLEMAN LN
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-01-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Enf Action Source: CERS,

Coordinates:
Site ID: 391293
Facility Name: Delta Packing 5950
Env Int Type Code: CalARP
Program ID: 10181721
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 38.114773
Longitude: -121.243187

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 6021 E KETTLEMAN LN
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240-640
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: DELTA PACKING COMPANY OF LODI
Entity Title: Not reported
Affiliation Address: 6021 E KETTLEMAN LN
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 334-1023,

Affiliation Type Desc: Parent Corporation
Entity Name: DELTA PACKING COMPANY OF LODI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Document Preparer
Entity Name: Eli Macha
Entity Title: Not reported

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Dave Wentrup
Entity Title:	Not reported
Affiliation Address:	6021 East Kettleman Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240-640
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Eli Macha
Entity Title:	Process Safety Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Jim Stout
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 321-4551,
Affiliation Type Desc:	Property Owner
Entity Name:	Ernie Costamagna
Entity Title:	Not reported
Affiliation Address:	6021 East Kettleman Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-1023,
Name:	DELTA PACKING 5950
Address:	5950 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
Site ID:	391293
CERS ID:	10181721
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	391293
Site Name:	Delta Packing 5950

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 01/02/2020. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The last submittal for the Facility Information and Chemical Inventory and the Emergency Response and Training Plan was on 11/30/2016. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 01/02/2020. A site map was not completed and submitted as part of the business plan Annually. The last submittal of the site map was on November 30, 2016. The submitted site map does not address the location of the Adjacent streets, internal roads, storm drains, and chemical loading area(s). A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 11/29/2016. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) since 01/30/2015. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

	correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/02/2020. The emergency response procedure (ERP) has not been submitted to CERS since November 30, 2016. The ERP is not updated. All n One Design (Chad Clark) stopped working for the business as a consultant in 2018 and he is still listed in the emergency response plan as an emergency contact . The listed phone number in the ERP for SJC EHD is (209) 953-6200. This phone number is incorrect. The correct phone number is (209)468-3420. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/29/2016. Complete training records were not available during the inspection. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/02/2020. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). The last submittal of the business plan was on November 11, 2016. As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/01/2016. HVE CWT 530, and 55 gallons of Gasoline were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/02/2020. The Federal Hazard Categories have not been updated to the new 24 hazard categories for all the chemicals reported in CERS. The Hazardous Materials inventory has not been updated and submitted to CERS since November 30, 2016.. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	11-01-2016

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 11/29/2016. The emergency response procedures were not update with correct information . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 01/02/2020. The Business Owner/Operator Identification form was not submitted annually. The last submittal of the business plan was on November 11, 2016 . This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391293
Site Name:	Delta Packing 5950
Violation Date:	12-09-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/02/2020. A training program was not submitted to CERS Annually. The training Program has not been submitted to CERS since November 30, 2016. The training program uploaded to CERS is not updated. The Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency.

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

(B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration of each employee. Immediately prepare

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were noted at the time of the inspection. The routine inspection was also part of the evaluation review for the RMP submittal. Comments were not received from the formal public review period. Notes: The last five-year Hazard Review/Process Hazard Analysis (PHA) was completed on 9/30/2015. There are six recommendations all of which are open. All recommendations must be completed within one year of the PHA. If more time is required, a written request must be received by our department for approval for up to 2.5 years. All PHA recommendations must be kept for the life of the process. Our department must be invited to participate in the next PHA in 2020 once it has been scheduled. An initial seismic assessment has not be completed as part of the external events analysis of the PHA. Ensure that a qualified engineer (civil, mechanical, structural) conducts the initial seismic assessment. Any deficiencies noted in the initial seismic assessment must be [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12/01/2016 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Plan inspection. There were seven violations during the inspection. Complete and submit a copy of the Return to Compliance Certification

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by January 08, 2020 . Note: Pat Coe retired as of December 01,2019 and is listed as the secondary emergency contact in CERS, and one the emergency contacts in the emergency response plan. Update this information by December 30, 2019. The facility is no longer storing propane, gasoline oil, and waste oil at this site. If you are planning not to store these chemical at this location, update the chemical inventory and the site map in CERS.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to meet with Chad Clark, Silvestre Hernandez and Paul Poultre regarding the layout of the facility in relation to the other two facilities nearby. This is a stand-alone facility with its own HPR and mechanical room.
Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-25-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Conducted a billable routine inspection. See the daily entry for service code 001 for details.
Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection. The EHD has written the complete report on October 24, 2019 which replaces the initial checklist. No violations were observed at the 5950 E. Kettleman Ln facility. Waste Streams Observed: refrigeration oil Documents Provided: Schedule of free CUPA classes, Return to Compliance Certification and Corrective Statements forms Note: Delta Packing Company of Lodi can combine the facilities at 6021 E. Kettleman Ln. and 5950 E. Kettleman Ln. under one hazardous waste small generator permit. If Delta Packing would like to consolidate their permit, the San Joaquin County Environmental Health Department can facilitate the process.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 391293
Site Name: Delta Packing 5950

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Site Address:	5950 E KETTLEMAN LN
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-01-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Coordinates:

Site ID:	391293
Facility Name:	Delta Packing 5950
Env Int Type Code:	CalARP
Program ID:	10181721
Coord Name:	Not reported
Ref Point Type Desc:	Unknown,
Latitude:	38.114773
Longitude:	-121.243187

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6021 E KETTLEMAN LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240-640
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	DELTA PACKING COMPANY OF LODI
Entity Title:	Not reported
Affiliation Address:	6021 E KETTLEMAN LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-1023,

Affiliation Type Desc:	Parent Corporation
Entity Name:	DELTA PACKING COMPANY OF LODI
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	Eli Macha
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Dave Wentrup
Entity Title:	Not reported
Affiliation Address:	6021 East Kettleman Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240-640
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Eli Macha
Entity Title:	Process Safety Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Jim Stout
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 321-4551,
Affiliation Type Desc:	Property Owner
Entity Name:	Ernie Costamagna
Entity Title:	Not reported
Affiliation Address:	6021 East Kettleman Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-1023,

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

SWEEPS UST:

Name:	DELTA PACKING COMPANY OF LODI
Address:	5950 E KETTLEMAN LANE
City:	LODI
Status:	Not reported
Comp Number:	1347
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001347-000001
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	2

Name:	DELTA PACKING COMPANY OF LODI
Address:	5950 E KETTLEMAN LANE
City:	LODI
Status:	Not reported
Comp Number:	1347
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001347-000002
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

HIST UST:

Name:	DELTA PACKING COMAPANY OF LODI
Address:	5950 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 95240
File Number:	0002FB42
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FB42.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported

DELTA PACKING COMPANY OF LODI (Continued) **S101625681**

Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 39000430
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093341023
Mail To: Not reported
Mailing Address: 5950 E KETTLEMAN LANE
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

L48 **DELTA PACKING COMPANY OF LODI** **HIST UST** **U001604272**
West **5950 E KETTLEMAN LN** **N/A**
1/8-1/4 **LODI, CA 95240**
0.137 mi.
723 ft. **Site 3 of 6 in cluster L**

Actual:
58 ft.

Focus Map:
10

HIST UST:
Name: DELTA PACKING COMPANY OF LODI
Address: 5950 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000016590
Facility Type: Other
Other Type: COLD STORAGE PLANT
Contact Name: CARL ELKINS
Telephone: 2093341023
Owner Name: DELTA PACKING COMPANY OF LODI
Owner Address: 5950 EAST KETTLEMAN LANE
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0002

Tank Num: 001
Container Num: 1

DELTA PACKING COMPANY OF LODI (Continued) **U001604272**

Year Installed:	1955
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1955
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

L49 **DELTA PACKING COMPANY OF LODI** **UST** **U004260432**
West **5950 E KETTLEMAN LN** **N/A**
1/8-1/4 **LODI, CA 95240**
0.137 mi.
723 ft. **Site 4 of 6 in cluster L**

Actual:
58 ft.

Focus Map:
10

UST SAN JOAQUIN:

Name:	DELTA PACKING COMPANY OF LODI
Address:	5950 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0005059
Mail Address:	6021 E KETTLEMAN LN
Mail Address 2:	Not reported
Mail Care of:	Jim Stout
Mail City,St,Zip:	LODI, CA 95240-640
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	500
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181721
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1157937206
Longitude:	-121.2431896801
Tank Rec ID:	Not reported
Tank Number:	2
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	8000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380

DELTA PACKING COMPANY OF LODI (Continued) **U004260432**

Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181721
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1157937206
Longitude: -121.2431896801

M50 **SWEETENER PRODUCTS INC** **CERS HAZ WASTE** **S121791230**
SW **1150 E THURMAN ST** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240** **HWTS**
0.137 mi.
724 ft. **Site 1 of 2 in cluster M**

Actual:
58 ft.

Focus Map:
9

CERS HAZ WASTE:
Name: SWEETENER PRODUCTS INC
Address: 1150 E THURMAN ST
City,State,Zip: LODI, CA 95240-3128
Site ID: 72875
CERS ID: 10183781
CERS Description: Hazardous Waste Generator

CERS:
Name: SWEETENER PRODUCTS INC
Address: 1150 E THURMAN ST
City,State,Zip: LODI, CA 95240-3128
Site ID: 72875
CERS ID: 10183781
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/27/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.

SWEETENER PRODUCTS INC (Continued) **S121791230**

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 72875
Facility Name: SWEETENER PRODUCTS INC
Env Int Type Code: HWG
Program ID: 10183781
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.127400
Longitude: -121.254000

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E 38TH STREET
Affiliation City: VERNON
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1150 E THURMAN ST
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Parent Corporation
Entity Name: SWEETENER PRODUCTS INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact

SWEETENER PRODUCTS INC (Continued) **S121791230**

Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90058
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Kenny Cochrane
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (253) 310-2815,

Affiliation Type Desc: Legal Owner
Entity Name: ROBERT L SHIPP
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90058
Affiliation Phone: (323) 234-2200,

Name: SWEETENER PRODUCTS INC
Address: 1150 E THURMAN ST
City,State,Zip: LODI, CA 95240-3128
Site ID: 72875
CERS ID: 110038067524
CERS Description: US EPA Air Emission Inventory System (EIS)

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/27/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016

SWEETENER PRODUCTS INC (Continued) **S121791230**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 72875
Facility Name: SWEETENER PRODUCTS INC
Env Int Type Code: HWG
Program ID: 10183781
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.127400
Longitude: -121.254000

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E 38TH STREET
Affiliation City: VERNON
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1150 E THURMAN ST
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Parent Corporation
Entity Name: SWEETENER PRODUCTS INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

SWEETENER PRODUCTS INC (Continued) **S121791230**

Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90058
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Kenny Cochrane
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (253) 310-2815,

Affiliation Type Desc: Legal Owner
Entity Name: ROBERT L SHIPP
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90058
Affiliation Phone: (323) 234-2200,

HWTS:
Name: SWEETENER PRODUCTS INC
Address: 1150 E THURMAN ST
Address 2: Not reported
City,State,Zip: LODI, CA 95240
EPA ID: CAL000280186
Inactive Date: 06/30/2020
Create Date: 03/17/2004
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1150 E THURMAN ST
Mailing Address 2: Not reported
Mailing City,State,Zip: LODI, CA 952400000
Owner Name: SWEETENER PRODUCTS CO.
Owner Address: 2050 EAST 38TH STREET
Owner Address 2: Not reported
Owner City,State,Zip: VERNON, CA 900580426
Contact Name: KENNY COCHRANE
Contact Address: 1150 E THURMAN ST
Contact Address 2: Not reported
City,State,Zip: LODI, CA 95240
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE

SWEETENER PRODUCTS INC (Continued) **S121791230**

Latitude: 38.128521
Longitude: -121.255319

NAICS:
EPA ID: CAL000280186
Create Date: 2004-03-17 14:44:06.167
NAICS Code: 311999
NAICS Description: All Other Miscellaneous Food Manufacturing
Issued EPA ID Date: 2004-03-17 14:44:06.12000
Inactive Date: 2020-06-30 00:00:00
Facility Name: SWEETENER PRODUCTS INC
Facility Address: 1150 E THURMAN ST
Facility Address 2: Not reported
Facility City: LODI
Facility County: Not reported
Facility State: CA
Facility Zip: 95240

M51 **SWEETENER PRODUCTS INC** **RCRA NonGen / NLR** **1024808508**
SW **1150 E THURMAN ST** **CAL000280186**
1/8-1/4 **LODI, CA 95240**
0.137 mi.
724 ft. **Site 2 of 2 in cluster M**

Actual:
58 ft.

Focus Map:
9

RCRA NonGen / NLR:
Date Form Received by Agency: 20040317
Handler Name: SWEETENER PRODUCTS INC
Handler Address: 1150 E THURMAN ST
Handler City,State,Zip: LODI, CA 95240
EPA ID: CAL000280186
Contact Name: KENNY COCHRANE
Contact Address: 1150 E THURMAN ST
Contact City,State,Zip: LODI, CA 95240
Contact Telephone: 209-325-9340
Contact Fax: 209-334-0715
Contact Email: KENNY@SPVW.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 1150 E THURMAN ST
Mailing City,State,Zip: LODI, CA 95240-0000
Owner Name: SWEETENER PRODUCTS CO.
Owner Type: Other
Operator Name: KENNY COCHRANE
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

SWEETENER PRODUCTS INC (Continued) **1024808508**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SWEETENER PRODUCTS CO.	
Legal Status:	Other
Date Became Current:	Not reported

SWEETENER PRODUCTS INC (Continued) **1024808508**

Date Ended Current:	Not reported
Owner/Operator Address:	2050 EAST 38TH STREET
Owner/Operator City,State,Zip:	VERNON, CA 90058-0426
Owner/Operator Telephone:	209-334-3331
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: KENNY COCHRANE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1150 E THURMAN ST
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-325-9340
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20040317
Handler Name:	SWEETENER PRODUCTS INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	311999
NAICS Description:	ALL OTHER MISCELLANEOUS FOOD MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

L52 **BREA AGRI SERV INC** **SWEEPS UST** **1000141573**
West **5991 E KETTLEMAN LN** **HIST UST** **CAD000629428**
1/8-1/4 **LODI, CA 95240** **CA FID UST**
0.138 mi. **RCRA NonGen / NLR**
730 ft. **Site 5 of 6 in cluster L** **FINDS**
ECHO

Actual:
58 ft.

SWEEPS UST:

Focus Map:
10

Name:	BREA AGRICULTURAL SERVICE
Address:	6042 E KETTLEMAN LN
City:	LODI

BREA AGRI SERV INC (Continued) **1000141573**

Status:	Not reported
Comp Number:	2132
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-002132-000001
Tank Status:	Not reported
Capacity:	2500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

HIST UST:

Name:	BREA AGRICULTURAL SERVICE INC
Address:	6042 EAST KETTLEMAN
City,State,Zip:	LODI, CA 95240
File Number:	0002F9FD
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F9FD.pdf
Region:	STATE
Facility ID:	00000042978
Facility Type:	Other
Other Type:	RETAIL FERTILIZERS
Contact Name:	RICH NEUHARTH
Telephone:	2093342732
Owner Name:	BREA AGRICULTURAL SERVICE, INC
Owner Address:	1336 W. FREMONT ST. (DRAWER I)
Owner City,St,Zip:	STOCKTON, CA 95201
Total Tanks:	0001
Tank Num:	001
Container Num:	765-440-00
Year Installed:	1981
Tank Capacity:	00002500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	3/16
Leak Detection:	Visual, Stock Inventor

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39003050
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093342732
Mail To:	Not reported
Mailing Address:	1336 W FREMONT ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95240

BREA AGRI SERV INC (Continued) **1000141573**

Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

RCRA NonGen / NLR:

Date Form Received by Agency:		19800818
Handler Name:	BREA AGRI SERV INC	
Handler Address:		5991 E KETTLEMAN LN
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD000629428
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		5991 E KETTLEMAN LN
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		213-977-7191
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		CA
State District:		1
Mailing Address:		PO BOX 60235
Mailing City,State,Zip:		LOS ANGELES, CA 90060
Owner Name:	BREA AGRICULTURAL SERVICE INC	
Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No

BREA AGRI SERV INC (Continued) **1000141573**

Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: BREA AGRICULTURAL SERVICE INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212

BREA AGRI SERV INC (Continued) **1000141573**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19800818
Handler Name: BREA AGRI SERV INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002628149

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000141573
Registry ID: 110002628149
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002628149
Name: BREA AGRI SERV INC
Address: 5991 E KETTLEMAN LN
City,State,Zip: LODI, CA 95240

L53 **KETTLEMAN HILLS FACILITY** **AST** **1007283341**
West **35251 OLD SKYLINE RD.** **N/A**
1/8-1/4 **KETTLEMAN CITY, CA**
0.145 mi.
768 ft. **Site 6 of 6 in cluster L**

Actual: **58 ft.**
Focus Map: **10**

AST:

Name:	KETTLEMAN HILLS FACILITY
Address:	35251 OLD SKYLINE RD.
City/Zip:	KETTLEMAN CITY,
Certified Unified Program Agencies:	Kings
Owner:	CHEMICAL WASTE MANAGEMENT, INC
Total Gallons:	8,125
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

N54 **B & G INDUSTRIES, S.B. GRIFFIN PROPERTY** **CPS-SLIC** **S106842907**
North **100 CLUFF RD S** **N/A**
1/8-1/4 **LODI, CA**
0.173 mi.
911 ft. **Site 1 of 5 in cluster N**

Actual: **61 ft.**
Focus Map: **1**

SLIC REG 5:

Name:	B & G Industries, S.B. Griffin Property
Address:	100 Cluff Rd S
City:	Lodi
Region:	5
Facility Status:	Preliminary Assessment
Unit:	Facility is a Spill or site
Pollutant:	Zn, Cr, Pb, Ni, As, Cd, Cu
Lead Agency:	Not reported
Date Filed:	/ /
Report Date:	06/01/91
Date Added:	Not reported
Date Closed:	Not reported

O55 **FWS CONSTRUCTION** **RCRA NonGen / NLR** **1026170088**
North **111 S GUILD AVE** **CAL000400719**
1/8-1/4 **LODI, CA 95240**
0.177 mi.
935 ft. **Site 1 of 2 in cluster O**

Actual:
60 ft.

Focus Map:
2

RCRA NonGen / NLR:

Date Form Received by Agency:		20200417
Handler Name:	FWS CONSTRUCTION	
Handler Address:		111 S GUILD AVE
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAL000400719
Contact Name:		DIANA SULLIVAN
Contact Address:		S GUILD AVE
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-369-7000
Contact Fax:		209-369-7028
Contact Email:		DIANA@FWSCONSTRUCTION.NET
Contact Title:		OFFICE MANAGER
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		S GUILD AVE
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	RICHARD SULLIVAN	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

FWS CONSTRUCTION (Continued) **1026170088**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200421
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: RICHARD SULLIVAN	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 S GUILD AVE
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-369-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	209-369-7028
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200417
Handler Name: FWS CONSTRUCTION	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

FWS CONSTRUCTION (Continued) **1026170088**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 238990
NAICS Description: ALL OTHER SPECIALTY TRADE CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N56 **B & G INDUSTRIES** **ENVIROSTOR** **S101482066**
NNW **100 S CLUFF AVE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.177 mi.
937 ft. **Site 2 of 5 in cluster N**

Actual:
60 ft.

Focus Map:
1

ENVIROSTOR:
Name: B & G INDUSTRIES
Address: 100 S CLUFF AVE
City,State,Zip: LODI, CA 95240
Facility ID: 39240005
Status: No Further Action
Status Date: 12/10/1991
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13237
Longitude: -121.2521
APN: 04909039
Past Use: UNKNOWN
Potential COC: * ORGANIC LIQUIDS WITH METALS * CONTAMINATED SOIL Lead Chromium VI
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: B & G MACHINERY
Alias Type: Alternate Name
Alias Name: GRIFFIN PROPERTY
Alias Type: Alternate Name
Alias Name: 04909039
Alias Type: APN

B & G INDUSTRIES (Continued) **S101482066**

Alias Name: 39240005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/02/1987
Comments: SITE SCREENING DONE NO CLEANUP CONFIRMED, NO FILE FOUND

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/10/1991
Comments: Site Screening completed including driveby. Recommend NFA by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 02/23/1988
Comments: PRELIM ASSESS DONE SI MED RECOMMENDED BASED ON POTENTIAL CONTAMINATION
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/04/1982
Comments: FACILITY IDENTIFIED DRIVEBY

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

N57 **B&G INDUSTRIES, S.B. GRIFFEN PROPERTY** **CPS-SLIC** **S106486383**
NNW **100 SOUTH CLUFF AVE** **CERS** **N/A**
1/8-1/4 **LODI, CA**
0.177 mi.
937 ft. **Site 3 of 5 in cluster N**

Actual:
60 ft.

Focus Map:
1

CPS-SLIC:
Name: B&G INDUSTRIES, S.B. GRIFFEN PROPERTY
Address: 100 SOUTH CLUFF AVE
City,State,Zip: LODI, CA
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/1991
Global Id: SLT5S0423083
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number: Not reported
Latitude: 38.1323715217693
Longitude: -121.252072408951
Case Type: Cleanup Program Site

B&G INDUSTRIES, S.B. GRIFFEN PROPERTY (Continued) **S106486383**

Case Worker:	ZZZ
Local Agency:	Not reported
RB Case Number:	SLT5S042
File Location:	Not reported
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Not reported
Site History:	The B&G site is located at 100 South Cluff Road in Lodi, California. The 2-acre site is situated approximately 1 mile south of the Mokelumne River. The area surrounding the site is a mixed industrial, residential, and agricultural area. B&G Industries used the site for storage of scrap metal from 1969 to 1989. Scrap metal stored on site included 55-gallons drums and transformers. The contents of the drums and the transformers are unknown. All wastes had been removed and the entire site is paved and fenced. Current google map search indicate a business named A&A Industrial supplies at the site address. Former B&G site and surrounding region was a vineyard prior to 1969. In 1969 Mr. Robert Griffin purchased a 10-acre parcel from an estate that was being liquidated by the court. The B&G Industries site is 2 acres of that 10-acre parcel. From 1985 to 1089 Tokay Recycling rented part of the B&G site from Mr. Griffin for use as a recycling drop-off center. In April 1989, Tokay Recycling purchased 1 acre of the B&G site. Also in early 1989, Potter Enterprises purchased the other 1-acre parcel of the B&G site.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	B&G INDUSTRIES, S.B. GRIFFEN PROPERTY
Address:	100 SOUTH CLUFF AVE
City,State,Zip:	LODI, CA
Site ID:	218519
CERS ID:	SLT5S0423083
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	zzz - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

N58 **B&G INDUSTRIES** **SEMS-ARCHIVE** **1003877985**
NNW **100 S CLUFF AVE** **CAD982359184**
1/8-1/4 **LODI, CA 95240**
0.177 mi.
937 ft. **Site 4 of 5 in cluster N**

Actual:
60 ft.

Focus Map:
1

SEMS Archive:

Site ID:	0900114
EPA ID:	CAD982359184
Name:	B&G INDUSTRIES
Address:	100 S CLUFF AVE
Address 2:	Not reported

B&G INDUSTRIES (Continued) **1003877985**

City,State,Zip: LODI, CA 95240
Cong District: 14
FIPS Code: 06077
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09
Site ID: 0900114
EPA ID: CAD982359184
Site Name: B&G INDUSTRIES
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1991-06-26 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0900114
EPA ID: CAD982359184
Site Name: B&G INDUSTRIES
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1991-06-26 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900114
EPA ID: CAD982359184
Site Name: B&G INDUSTRIES
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1987-12-01 05:00:00
Finish Date: 1987-12-01 05:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 09
Site ID: 0900114
EPA ID: CAD982359184
Site Name: B&G INDUSTRIES
NPL: N

B&G INDUSTRIES (Continued) **1003877985**

FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-11-21 05:00:00
Qual:	L
Current Action Lead:	St Perf

P59 **NORTH AMERICAN SPECIALTY PRODUCTS** **AST** **A100422815**
West **300 S BECKMAN RD** **N/A**
1/8-1/4 **LODI, CA 95240**
0.185 mi.
977 ft. **Site 1 of 5 in cluster P**

Actual:
54 ft.

Focus Map:
9

AST:

Name:	NORTH AMERICAN SPECIALTY PRODUCTS
Address:	300 S BECKMAN RD
City/Zip:	LODI,95240
Certified Unified Program Agencies:	Not reported
Owner:	North American Pipe Corporation
Total Gallons:	Not reported
CERSID:	10183989
Facility ID:	Not reported
Business Name:	North American Specialty Products
Phone:	(209) 365-2072
Fax:	2093651005
Mailing Address:	300 S BECKMAN RD
Mailing Address City:	LODI
Mailing Address State:	CA
Mailing Address Zip Code:	95240
Operator Name:	PPG LODI 0343 / 110775
Operator Phone:	209-365-2050
Owner Phone:	209-365-2050
Owner Mail Address:	300 S BECKMAN RD
Owner State:	CA
Owner Zip Code:	95240
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL000385256

P60 **TRIANGLE PACIFIC CORP** **UST** **U004260726**
West **300 S BECKMAN RD** **N/A**
1/8-1/4 **LODI, CA 95240**
0.185 mi.
977 ft. **Site 2 of 5 in cluster P**

Actual: UST SAN JOAQUIN:
54 ft.

Name:	TRIANGLE PACIFIC CORP
Address:	300 S BECKMAN RD
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0005948
Mail Address:	300 S BECKMAN
Mail Address 2:	Not reported
Mail Care of:	TRAINGLE PACIFIC CORP
Mail City,St,Zip:	LODI, CA 95240
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	550
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Focus Map:
9

P61 **CERTAINTEED CORP** **RCRA-SQG** **1000152527**
West **300 SOUTH BECKMAN ROAD** **SWEEPS UST** **CAD094881067**
1/8-1/4 **LODI, CA 95240** **HIST UST**
0.185 mi. **CA FID UST**
977 ft. **Site 3 of 5 in cluster P** **CIWQS**

Actual: RCRA-SQG:
54 ft.

Date Form Received by Agency:		19960901
Handler Name:	CERTAINTEED CORP	
Handler Address:		300 SOUTH BECKMAN ROAD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD094881067
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Municipal
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported

Focus Map:
9

CERTAINTEED CORP (Continued) **1000152527**

Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		300 S BECKMAN ROAD
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20021007

CERTAINTEED CORP (Continued) **1000152527**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D028
Waste Description:	1,2-DICHLOROETHANE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	D040
Waste Description:	TRICHLORETHYLENE
Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

CERTAINTEED CORP (Continued) **1000152527**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: CERTAINTEED CORP	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	750 E SWEDESFORD RD
Owner/Operator City,State,Zip:	VALLEY FORGE, PA 19482-0101
Owner/Operator Telephone:	610-341-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: CERTAINTEED CORP	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800818
Handler Name: CERTAINTEED CORP	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

CERTAINTEED CORP (Continued) **1000152527**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 33711
NAICS Description: WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850724
Actual Return to Compliance Date: 19850724
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19850724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19840214
Actual Return to Compliance Date: 19850724
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

CERTAINTEED CORP (Continued) **1000152527**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19840229
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - General
Date Violation was Determined: 19880825
Actual Return to Compliance Date: 19891028
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

CERTAINTEED CORP (Continued) **1000152527**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19880825
Actual Return to Compliance Date:	19891028
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Formal Enforcement Agreement or Order
Date Violation was Determined:	19840214
Actual Return to Compliance Date:	19850724
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

CERTAINTEED CORP (Continued) **1000152527**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19840229
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

CERTAINTEED CORP (Continued) **1000152527**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19850724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19840214
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891028
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

CERTAINTEED CORP (Continued) **1000152527**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891028
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19840214
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850724
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SWEEPS UST:

Name:	TRIANGLE PACIFIC CORPORATION
Address:	300 S BECKMAN RD
City:	LODI
Status:	Not reported
Comp Number:	2347
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-002347-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

CERTAINTEED CORP (Continued) **1000152527**

HIST UST:

Name:	TRIANGLE PACIFIC CORP
Address:	300 SOUTH BECKMAN ROAD
City,State,Zip:	LODI, CA 95240
File Number:	0002B4F5
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B4F5.pdf
Region:	STATE
Facility ID:	00000067253
Facility Type:	Other
Other Type:	MANUFACTURING
Contact Name:	PETE DEFOTIF
Telephone:	2093344467
Owner Name:	TRIANGLE PACIFIC CORP.
Owner Address:	16803 DALLAS PARKWAY
Owner City,St,Zip:	DALLAS, TX 75248
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	1
Container Construction Thickness:	X
Leak Detection:	Visual, Stock Inventor

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39001880
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093344467
Mail To:	Not reported
Mailing Address:	300 S BECKMAN RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95240
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

CIWQS:

Name:	CERTAINTEED CORP
Address:	300 SO BECKMAN RD
City,State,Zip:	LODI, CA 95240
Agency:	Certainteed Corp
Agency Address:	750 E Swedesford Rd, Valley Forge, CA 19482
Place/Project Type:	Industrial - Plastics Pipe
SIC/NAICS:	3084
Region:	5S

CERTAINTEED CORP (Continued) **1000152527**

Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I014240
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/25/1998
Termination Date:	07/08/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.13099
Longitude:	-121.257

P62 **NORTH AMERICAN SPECIALTY PRODUCTS LLC** **CERS HAZ WASTE** **S121774700**
West **300 S BECKMAN RD** **CERS TANKS** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.185 mi.
977 ft. **Site 4 of 5 in cluster P**

Actual:
54 ft.

Focus Map:
9

CERS HAZ WASTE:

Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address:	300 S BECKMAN RD
City,State,Zip:	LODI, CA 95240
Site ID:	398317
CERS ID:	10183989
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address:	300 S BECKMAN RD
City,State,Zip:	LODI, CA 95240
Site ID:	398317
CERS ID:	10183989
CERS Description:	Aboveground Petroleum Storage

CERS:

Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address:	300 S BECKMAN RD
City,State,Zip:	LODI, CA 95240
Site ID:	398317
CERS ID:	10183989
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	398317
Site Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Violation Date:	11-12-2015
Citation:	40 CFR 1 262.34(d)(5)(i) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(i)
Violation Description:	Failure to have an emergency coordinator or a designee onsite during operating hours.

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Violation Notes:	Returned to compliance on 12/11/2015. An emergency coordinator for this facility has not been assigned. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398317
Site Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Violation Date:	11-12-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 12/07/2015. The drum of drained used oil filters was marked with the accumulation start date of 6-14-14. These filters have been on site longer than one year. Facilities that generate up to one ton of used oil filters per year may store the filters up to one year. Facilities that generate one ton or more of used oil filters may store the filters for up to 180 days. Immediately recycle these filters under a bill of lading and submit a copy of the bill of lading to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398317
Site Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Violation Date:	11-12-2015
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 12/11/2015. Aerosol cans were processed and notification of treatment by the new business was not submitted to the EHD. The new business of North American Specialty Products began operations during May 2013. Notification shall be provided to the EHD person or by certified mail, with return receipt requested, before initiating this process. The notification shall include, but not limited to, all of the following information: - name, identification number, site address, mailing address, and telephone number of the handler - description of the aerosol can processing activities, including the type and estimated volumes or quantities of aerosol cans to be processed monthly, the treatment process, equipment description, and design capacities - description of the characteristics and management of any hazardous waste residuals Immediately submit notification for aerosol can processing with the required information to the EHD in person or by certified mail, with return receipt [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 10/29/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12-12-15. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 398317
Site Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Site Address: 300 S BECKMAN RD
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-12-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 398317
Facility Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Env Int Type Code: APSA

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Program ID: 10183989
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.129660
Longitude: -121.254650

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 300 S BECKMAN RD
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Catherine C Lyden
Entity Title: Sr. HSE Specialist-Building Products Group
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Jeff Remy
Entity Title: Not reported
Affiliation Address: 300 S. Beckman Rd
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: PPG LODI 0343 / 110775
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 365-2050,

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Affiliation Type Desc:	Parent Corporation
Entity Name:	North American Specialty Products
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	North American Pipe Corporation
Entity Title:	Not reported
Affiliation Address:	300 S BECKMAN RD
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 365-2050,

P63 **NORTH AMERICAN SPECIALTY PRODUCTS LLC** **RCRA NonGen / NLR** **1024838432**
West **300 S BECKMAN RD** **CAL000385256**
1/8-1/4 **LODI, CA 95240**
0.185 mi.
977 ft. **Site 5 of 5 in cluster P**

Actual:
54 ft.

Focus Map:
9

RCRA NonGen / NLR:

Date Form Received by Agency:	20130510
Handler Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Handler Address:	300 S BECKMAN RD
Handler City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000385256
Contact Name:	JEFF REMY
Contact Address:	300 S BECKMAN RD
Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-365-2062
Contact Fax:	209-365-1005
Contact Email:	GSMITH2@WESTLAKE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	300 S BECKMAN RD
Mailing City,State,Zip:	LODI, CA 95420-0000
Owner Name:	NORTH AMERICAN SPECIALTY PRODUCTS L
Owner Type:	Other
Operator Name:	JEFF REMY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **1024838432**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: NORTH AMERICAN SPECIALTY PRODUCTS L

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **1024838432**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2801 POST OAK BLVD
Owner/Operator City,State,Zip:	HOUSTON, TX 77056
Owner/Operator Telephone:	713-960-9111
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: JEFF REMY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	300 S BECKMAN RD
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-365-2062
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20130510
Handler Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	326122
NAICS Description:	PLASTICS PIPE AND PIPE FITTING MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

64
South
1/8-1/4
0.187 mi.
987 ft.

CLYDE C CULBERTSON
13915 N LOCUST TREE RD
LODI, CA 95240

HIST UST **U001604265**
N/A

Actual:
70 ft.

Focus Map:
20

HIST UST:

Name:	CLYDE C CULBERTSON
Address:	13915 N LOCUST TREE RD
City,State,Zip:	LODI, CA 95240
File Number:	0002FAF0
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FAF0.pdf
Region:	STATE
Facility ID:	00000052104
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2093680902
Owner Name:	CLYDE C. CULBERTSON
Owner Address:	13915 N. LOCUST TREE RD
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0000
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	10
Leak Detection:	None

Click here for Geo Tracker PDF:

Q65
NNW
1/8-1/4
0.198 mi.
1048 ft.

GUARANTEE REPAIR SERVICE
101 COMMERCE ST
LODI, CA 95240

Site 1 of 2 in cluster Q

CERS HAZ WASTE **S121740810**
CERS **N/A**

Actual:
59 ft.

Focus Map:
2

CERS HAZ WASTE:

Name:	GUARANTEE REPAIR SERVICE
Address:	101 COMMERCE ST
City,State,Zip:	LODI, CA 95240
Site ID:	120927
CERS ID:	10182741
CERS Description:	Hazardous Waste Generator

CERS:

Name:	GUARANTEE REPAIR SERVICE
Address:	101 COMMERCE ST
City,State,Zip:	LODI, CA 95240
Site ID:	120927
CERS ID:	10182741
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. Next to this drum is another 55 gallon drum that is not marked with any identifying information. During the inspection, Bonnie Berneiser confirmed that this unmarked drum also contains hazardous waste coolant. Not only was this drum unlabeled, it was also left open. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes:	Returned to compliance on 01/05/2016. Metal fines generated from the grinding wheel and the brake lathe machines have been left to accumulate indefinitely in the shop without first determining particle size or hazardous properties. Any person who generates a waste shall determine if the waste is a hazardous waste. Immediately stop allowing metal fines to accumulate indefinitely, make a hazardous waste determination for the metal fines, and manage it according to Title 22 hazardous waste regulations. Particles 100 microns or smaller must be handled as hazardous waste if the metal is determined to be a hazardous waste. Submit a statement and supporting documentation explaining how this waste was managed. Outside behind the shop is an old drum of ZEP that is partially full and an unlabeled old red drum next to it that Bernie Berneiser confirmed is partially full of waste carburetor cleaner/solvent and water. These wastes have been left out there without determining its hazardous properties. Any person who [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. This hazardous waste has been on site longer than 180 days. Facilities who generate less than 1000 kg of hazardous

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

	waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-26-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 12/26/2018. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. Next to this drum is another 55 gallon drum that is not marked with any identifying information. During the inspection, Bonnie Berneiser confirmed that this unmarked drum also contains hazardous waste coolant. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all containers are marked with all the required information. Since it cannot be determined how long the second drum of hazardous waste coolant has been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD. The used oil tank was marked with [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Site Name: GUARANTEE REPAIR SERVICE
Violation Date: 12-07-2015
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes: Returned to compliance on 01/05/2016. Outside, behind the shop are dark and wet oil stains and oily debris on the asphalt next to where the three transmissions and engine are being stored. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the dark and wet oil stains and oily debris, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 120927
Site Name: GUARANTEE REPAIR SERVICE
Violation Date: 12-07-2015
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum of drained and crushed used oil filters. This drum has an accumulation start date of 2-20-14. This drained used oil filters have been on site longer than one year. Facilities that generate up to one ton of used oil filters per year may store the filters up to one year. Facilities that generate one ton or more of used oil filters may store the filters for up to 180 days. Immediately recycle these filters under a bill of lading and submit a copy of the bill of lading to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1-7-16. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

any other relevant activities and required fields. This facility has the following waste streams: - used oil - metal fines - spent lead acid batteries - waste coolant - drained used oil filters
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-26-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1/25/2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by December 30, 2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 120927
Site Name: GUARANTEE REPAIR SERVICE
Site Address: 101 COMMERCE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 12-07-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 120927
Facility Name: GUARANTEE REPAIR SERVICE

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Env Int Type Code: HWG
Program ID: 10182741
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.132870
Longitude: -121.249730

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Bonnie Berneiser
Entity Title: Not reported
Affiliation Address: P. O. Box 246
Affiliation City: Victor
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95253
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Bonnie Berneiser
Entity Title: Owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Document Preparer
Entity Name: Bonnie Berneiser
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: GUARANTEE REPAIR SERVICE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Affiliation Type Desc:	Property Owner
Entity Name:	Griffin Family Trust
Entity Title:	Not reported
Affiliation Address:	119 N. Crescent Ave.
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95242
Affiliation Phone:	(209) 401-8553,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 246
Affiliation City:	VICTOR
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95253-0246
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Bonnie Berneiser
Entity Title:	Not reported
Affiliation Address:	101 COMMERCE ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 481-3589,

Affiliation Type Desc:	Operator
Entity Name:	BONNIE L BERNEISER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 481-3589,

Q66 **GUARANTEE REPAIR SERVICE** **RCRA NonGen / NLR** **1024875608**
NNW **101 COMMERCE ST** **CAL913476006**
1/8-1/4 **LODI, CA 95240**
0.198 mi.
1048 ft. **Site 2 of 2 in cluster Q**

Actual:
59 ft.

Focus Map:
2

RCRA NonGen / NLR:

Date Form Received by Agency:	19911213
Handler Name:	GUARANTEE REPAIR SERVICE
Handler Address:	101 COMMERCE ST
Handler City,State,Zip:	LODI, CA 95240-0000
EPA ID:	CAL913476006
Contact Name:	BONNIE BERNEISER/OWNER
Contact Address:	PO BOX 246
Contact City,State,Zip:	VICTOR, CA 95253
Contact Telephone:	209-339-1100
Contact Fax:	209-339-1168

GUARANTEE REPAIR SERVICE (Continued) **1024875608**

Contact Email:		GUARANTEEREPAIR@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 246
Mailing City,State,Zip:		VICTOR, CA 95253-0246
Owner Name:	BONNIE L BERNEISER	
Owner Type:		Other
Operator Name:	BONNIE BERNEISER/OWNER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A

GUARANTEE REPAIR SERVICE (Continued) **1024875608**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BONNIE L BERNEISER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 246
Owner/Operator City,State,Zip:	VICTOR, CA 95253-0246
Owner/Operator Telephone:	209-339-1100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BONNIE BERNEISER/OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 246
Owner/Operator City,State,Zip:	VICTOR, CA 95253
Owner/Operator Telephone:	209-339-1100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19911213
Handler Name:	GUARANTEE REPAIR SERVICE
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

GUARANTEE REPAIR SERVICE (Continued) **1024875608**

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N67 **TOKAY VALLEY RECYCLING INC** **SWRCY** **S110071979**
NNW **60 S CLUFF AVE** **NPDES** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.201 mi.
1062 ft. **Site 5 of 5 in cluster N**

Actual:
59 ft.

Focus Map:
1

SWRCY:
Name: TOKAY VALLEY RECYCLING INC
Address: 60 S CLUFF AVE
City,State,Zip: LODI, CA 95240
Reg Id: 43476
Cert Id: RC14663
Mailing Address: 60 S Cluff Ave
Mailing City: Lodi
Mailing State: CA
Mailing Zip Code: 95240
Website: Not reported
Email: Not reported
Phone Number: (209) 339-4990
Rural: N
Operation Begin Date: 01/01/2010
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Hours of Operation: Mon - Sun 8:00 am - 4:30 pm
Organization ID: 43476
Organization Name: Tokay Valley Recycling Inc

NPDES:
Name: TOKAY VALLEY RECYCLING INC
Address: 60 S CLUFF AVE
City,State,Zip: LODI, CA 95240
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 5S39I015999
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/07/2000
Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	201827
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	08/07/2000
Status:	Active
Status Date:	08/07/2000
Place Size:	1
Place Size Unit:	Acres
Contact:	Justin Lawrence
Contact Title:	President
Contact Phone:	209-339-4990
Contact Phone Ext:	Not reported
Contact Email:	jlawrence@tokayrecycling.com
Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Justin Lawrence
Operator Contact Title:	Not reported
Operator Contact Phone:	209-339-4990
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jlawrence@tokayrecycling.com
Operator Type:	Private Business
Developer:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-339-4990
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Justin Lawrence
Certifier Title:	President
Certification Date:	29-JUN-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	201827
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/07/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tokay Valley Recycling Inc
Discharge Address:	60 S Cluff Ave
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	201827
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39I015999
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/07/2000
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	60 S Cluff Ave
Discharge Name:	Tokay Valley Recycling Inc
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	201827
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	08/07/2000
Status:	Active
Status Date:	08/07/2000
Place Size:	1
Place Size Unit:	Acres
Contact:	Justin Lawrence
Contact Title:	President
Contact Phone:	209-339-4990
Contact Phone Ext:	Not reported
Contact Email:	jlawrence@tokayrecycling.com

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Justin Lawrence
Operator Contact Title:	Not reported
Operator Contact Phone:	209-339-4990
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jlawrence@tokayrecycling.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-339-4990
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Justin Lawrence
Certifier Title:	President
Certification Date:	29-JUN-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	201827
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Effective Date Of Regulatory Measure:	08/07/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tokay Valley Recycling Inc
Discharge Address:	60 S Cluff Ave
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CERS:

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Site ID:	416659
CERS ID:	10182779
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2013
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit annual report by July 1, 2013.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2009
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2008-2009 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report by July 1st.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2012
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit an annual report by July 1, 2012
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2017-2018 Annual Report
Violation Division:	Water Boards

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2005
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2004-2005 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2010
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: Ineffective BMPs and no SWPPP
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2006
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2005-2006 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-13-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: Failure to collect and analyze storm water runoff
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	08-15-2015
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2014-2015 Annual Report by due date
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/23/2018. The business plan chemical inventory and site map has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 04/23/2018. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2021
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Annual Report

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2005
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Failure to submit complete 2004-2005 annual report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/23/2018. The emergency response procedures were not uploaded on CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-22-2004
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	01-08-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 01/15/2014.

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2017
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: late 16-17 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2019
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2018-2019 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit annual report by July 1, 2011
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 03-30-2006
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: NOV for submitting an incomplete annual report for 2005/2006
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2013/2014 annual report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2014

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2014
Violations Found:	Yes
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	On 2 July 2014, Central Valley Regional Water Quality Control Board staff inspected Tokay Valley Recycling. The facility is located at 60 South Cluff Ave in Lodi. The facility includes a pallet manufacturing/re-manufacturing operation and a recycling operation. Staff met with the owner, Justin Lawrence. The facility accepts and recycles metals, pallets, appliances, paper, e-waste, bimetal and CRV materials. The facility has been in operation for 24 years and has had coverage under the Industrial General Permit (IGP) since 2001. On 4/22/2004, staff conducted a storm water inspection and determined that the facility had failed to sample storm water events, did not have a complete SWPPP and failed to have an on-site monitoring program. On 09/13/2004, a Notice of Violation (NOV) was issued to the facility. Multiple other NOVs and Notice of Noncompliance (NNCs) were issued to the facility for late annual reports. During the 2 July 2014 inspection, staff again determined that the facility did not have a Storm Water Pollution Prevention Plan (SWPPP). It was unclear if the facility had a written sampling plan. The facility recently had a fire that significantly damaged the asphalt surface in the back of the facility. The facility had two separate businesses and SIC codes within one main building. The pallet manufacturing and re-manufacturing operation was located in the back portion of the building and the recycling operation was located in the front part of the building (see attachment section for the full inspection report and photographs).
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5/20/2018. Please be aware as of January 1, 2013, all

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2004
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

Enforcement Action:
Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 01-08-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-30-2007
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for submitting incomplete annual report for 2005/2006.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-20-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-13-2018
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Failure to collect and analyze storm water runoff
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-23-2009
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NONC 08/09 Late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-29-2014
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-03-2017
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC for late 16-17 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Date:	08-11-2005
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of storm water non-compliance for failure to submit storm water annual report for the 2004/05 reporting year.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-15-2014
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for failure to submit annual report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2013
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2018
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2017-2018 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-17-2006
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of Storm water non-compliance issued for failure to submit

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

	2005-2006 Annual Storm Water Report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-19-2010
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC For Late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-24-2011
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-27-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-30-2021
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for Late 2020-2021 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-31-2012
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-02-2005
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Notice of violation for failure to submit complete storm water annual report for the 2004/05 reporting year
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-13-2004
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-16-2015
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2014-2015 Annual Report by due date
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	10-04-2017
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	2nd NNC for late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-19-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Coordinates:

Site ID:	416659
Facility Name:	TOKAY VALLEY RECYCLING INC
Env Int Type Code:	HMBP
Program ID:	10182779
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.132720
Longitude:	-121.251810

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

Affiliation Type Desc:	Operator

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 339-4990,
Affiliation Type Desc:	Owner/Operator
Entity Name:	Tokay Valley Recycling Inc
Entity Title:	Operator
Affiliation Address:	60 S Cluff Ave60 S Cluff Ave
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Parent Corporation
Entity Name:	TOKAY VALLEY RECYCLING INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	LAWRENCE, JUSTIN
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 339-4990,
Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Site ID:	416659
CERS ID:	264630
CERS Description:	Industrial Facility Storm Water

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violations:

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2013
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit annual report by July 1, 2013.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2009
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2008-2009 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report by July 1st.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2012
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit an annual report by July 1, 2012
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2017-2018 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2005
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2004-2005 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Date:	07-02-2010
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2006
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2005-2006 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-13-2018
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	Failure to collect and analyze storm water runoff
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	08-15-2015
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2014-2015 Annual Report by due date
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

	date.
Violation Notes:	Returned to compliance on 04/23/2018. The business plan chemical inventory and site map has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 04/23/2018. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2021
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2005
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Failure to submit complete 2004-2005 annual report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/23/2018. The emergency response procedures were not uploaded on CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-22-2004
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	01-08-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 01/15/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2017
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	late 16-17 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2019

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2018-2019 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2011
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit annual report by July 1, 2011
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	03-30-2006
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	NOV for submitting an incomplete annual report for 2005/2006
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2013/2014 annual report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2014
Violations Found:	Yes
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	On 2 July 2014, Central Valley Regional Water Quality Control Board staff inspected Tokay Valley Recycling. The facility is located at 60 South Cluff Ave in Lodi. The facility includes a pallet manufacturing/re-manufacturing operation and a recycling operation. Staff met with the owner, Justin Lawrence. The facility accepts and

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

recycles metals, pallets, appliances, paper, e-waste, bimetal and CRV materials. The facility has been in operation for 24 years and has had coverage under the Industrial General Permit (IGP) since 2001. On 4/22/2004, staff conducted a storm water inspection and determined that the facility had failed to sample storm water events, did not have a complete SWPPP and failed to have an on-site monitoring program. On 09/13/2004, a Notice of Violation (NOV) was issued to the facility. Multiple other NOVs and Notice of Noncompliance (NNCs) were issued to the facility for late annual reports. During the 2 July 2014 inspection, staff again determined that the facility did not have a Storm Water Pollution Prevention Plan (SWPPP). It was unclear if the facility had a written sampling plan. The facility recently had a fire that significantly damaged the asphalt surface in the back of the facility. The facility had two separate businesses and SIC codes within one main building. The pallet manufacturing and re-manufacturing operation was located in the back portion of the building and the recycling operation was located in the front part of the building (see attachment section for the full inspection report and photographs).

Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-20-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5/20/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2004
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enforcement Action:

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	01-08-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	03-30-2007
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for submitting incomplete annual report for 2005/2006.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	04-20-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-13-2018
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Failure to collect and analyze storm water runoff
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site Zip: 95240
Enf Action Date: 07-23-2009
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NONC 08/09 Late Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-29-2014
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-03-2017
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NNC for late 16-17 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-11-2005
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: Notice of storm water non-compliance for failure to submit storm water annual report for the 2004/05 reporting year.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-15-2014
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Notes:	NNC for failure to submit annual report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2013
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2018
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2017-2018 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-17-2006
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of Storm water non-compliance issued for failure to submit 2005-2006 Annual Storm Water Report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-19-2010
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC For Late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-24-2011
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-27-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-30-2021
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for Late 2020-2021 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-31-2012
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Date:	09-02-2005
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Notice of violation for failure to submit complete storm water annual report for the 2004/05 reporting year
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-13-2004
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-16-2015
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2014-2015 Annual Report by due date
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	10-04-2017
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	2nd NNC for late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-19-2019
Enf Action Type:	Industrial Storm Water Enforcement

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Late 2018-2019 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 416659
Facility Name: TOKAY VALLEY RECYCLING INC
Env Int Type Code: HMBP
Program ID: 10182779
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.132720
Longitude: -121.251810

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Justin Lawrence
Entity Title: Not reported
Affiliation Address: 60 S CLUFF AVE
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 60 S CLUFF AVE
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Justin Lawrence
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 339-4990,

Affiliation Type Desc: Owner/Operator
Entity Name: Tokay Valley Recycling Inc
Entity Title: Operator
Affiliation Address: 60 S Cluff Ave60 S Cluff Ave
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Parent Corporation
Entity Name:	TOKAY VALLEY RECYCLING INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	LAWRENCE, JUSTIN
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 339-4990,

O68 **CENTRAL VALLEY PAINTING INC** **RCRA NonGen / NLR** **1025874714**
North **67 S GUILD AVE** **CAL000447846**
1/8-1/4 **LODI, CA 95240**
0.206 mi.
1088 ft. **Site 2 of 2 in cluster O**

Actual:
60 ft.

Focus Map:
2

RCRA NonGen / NLR:

Date Form Received by Agency:	20190731
Handler Name:	CENTRAL VALLEY PAINTING INC
Handler Address:	67 S GUILD AVE
Handler City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000447846
Contact Name:	CARLO ZICARI
Contact Address:	67 S GUILD AVE
Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-321-4659
Contact Fax:	209-367-1114
Contact Email:	CENTRALVALLEYPAINTINGINC@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported

CENTRAL VALLEY PAINTING INC (Continued) **1025874714**

State District:		Not reported
Mailing Address:		PO BOX 2240
Mailing City,State,Zip:		LODI, CA 95241
Owner Name:	LISA ZICARI PRESIDENT	
Owner Type:		Other
Operator Name:	CARLO ZICARI	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20190910
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No

CENTRAL VALLEY PAINTING INC (Continued) **1025874714**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LISA ZICARI PRESIDENT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	67 S GUILD AVE
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-367-1112
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: CARLO ZICARI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	67 S GUILD AVE
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-321-4659
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190731
Handler Name: CENTRAL VALLEY PAINTING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	238320
NAICS Description:	PAINTING AND WALL COVERING CONTRACTORS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

R69 **D&B JUNGEBLUT** **CERS HAZ WASTE** **S121738792**
West **5827 E KETTLEMAN LN** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.220 mi.
1159 ft. **Site 1 of 2 in cluster R**

Actual:
57 ft.

Focus Map:
10

CERS HAZ WASTE:

Name:	D&B JUNGEBLUT
Address:	5827 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
Site ID:	109963
CERS ID:	10186575
CERS Description:	Hazardous Waste Generator

CERS:

Name:	D&B JUNGEBLUT
Address:	5827 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
Site ID:	109963
CERS ID:	10186575
CERS Description:	Chemical Storage Facilities

Coordinates:

Site ID:	109963
Facility Name:	D&B JUNGEBLUT
Env Int Type Code:	HWG
Program ID:	10186575
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.117710
Longitude:	-121.244740

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Brian Jungeblut
Entity Title:	Not reported
Affiliation Address:	5827 Kettleman Ln
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5827 E KETTLEMAN LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA

D&B JUNGEBLUT (Continued) **S121738792**

Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	RAY VON FLUE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	D&B JUNGEBLUT
Entity Title:	Not reported
Affiliation Address:	5827 E KETTLEMAN LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 368-1254,
Affiliation Type Desc:	Parent Corporation
Entity Name:	D&B JUNGEBLUT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Brian Jungeblut
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Brian Jungeblut
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 368-1254,

R70 **DUANE M JUNGEBLUT** **HIST UST** **U001604285**
West **5827 F KETTLEMAN LANE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.220 mi.
1159 ft. **Site 2 of 2 in cluster R**

Actual: HIST UST:
57 ft.
Name: DUANE M JUNGEBLUT
Focus Map: Address: 5827 F KETTLEMAN LANE
10 City,State,Zip: LODI, CA 95240
File Number: 0002FB81
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FB81.pdf
Region: STATE
Facility ID: 00000038195
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: 2093681254
Owner Name: DUANE M. JUNGEBLUT
Owner Address: 5827 F. KETTLEMAN LANE
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: 1965
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1974
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

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71 **FRANK CANEDA** **HIST UST** **U001604319**
North **15760 N TULLY RD** **N/A**
1/8-1/4 **LODI, CA 95240**
0.227 mi.
1199 ft.

Actual: HIST UST:
93 ft.
Name: FRANK CANEDA
Focus Map: Address: 15760 N TULLY RD
14 City,State,Zip: LODI, CA 95240
File Number: 0002FC3C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FC3C.pdf
Region: STATE
Facility ID: 00000055157
Facility Type: Other
Other Type: FARM
Contact Name: Not reported

FRANK CANEDA (Continued) **U001604319**

Telephone:	2097275298
Owner Name:	FRANK CANEDA
Owner Address:	15760 N TULLY RD
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1976
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

72
South
1/8-1/4
0.228 mi.
1202 ft.

MIA BROWN
14281 VINTAGE ROAD
LODI, CA 95240

RCRA NonGen / NLR **1026483421**
CAC003089492

Actual:
59 ft.

Focus Map:
10

RCRA NonGen / NLR:

Date Form Received by Agency:		20201022
Handler Name:	MIA BROWN	
Handler Address:		14281 VINTAGE ROAD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAC003089492
Contact Name:		MIA BROWN
Contact Address:		14281 VINTAGE ROAD
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-607-9279
Contact Fax:		209-249-4692
Contact Email:		MBROWN@SSJID.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14281 VINTAGE ROAD
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:	MIA BROWN	
Owner Type:		Other
Operator Name:	MIA BROWN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No

MIA BROWN (Continued) **1026483421**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201026
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MIA BROWN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14281 VINTAGE ROAD

MIA BROWN (Continued) **1026483421**

Owner/Operator City,State,Zip: LODI, CA 95240
Owner/Operator Telephone: 209-607-9279
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MIA BROWN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14281 VINTAGE ROAD
Owner/Operator City,State,Zip: LODI, CA 95240
Owner/Operator Telephone: 209-607-9279
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20201022
Handler Name: MIA BROWN
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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73 **LAWRENCE LIPPERT** **HIST UST** **U001604412**
North **7362 E KETTLEMAN** **N/A**
1/8-1/4 **LODI, CA 95240**
0.245 mi.
1292 ft.

Actual:
62 ft.

Focus Map:
10

HIST UST:
Name: LAWRENCE LIPPERT
Address: 7362 E KETTLEMAN
City,State,Zip: LODI, CA 95240
File Number: 0002FE78
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FE78.pdf
Region: STATE

LAWRENCE LIPPERT (Continued) **U001604412**

Facility ID:	00000023284
Facility Type:	Other
Other Type:	FARM
Contact Name:	Not reported
Telephone:	2093346010
Owner Name:	LAWRENCE LIPPERT
Owner Address:	7362 E KETTLEMAN
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

S74 **SHANDS DIESEL TRUCK REPAIR** **CERS HAZ WASTE** **S121746794**
WNW **885 E LODI AVE A** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.246 mi.
1299 ft. **Site 1 of 3 in cluster S**

Actual:
52 ft.

Focus Map:
1

CERS HAZ WASTE:

Name:	SHANDS DIESEL TRUCK REPAIR
Address:	885 E LODI AVE A
City,State,Zip:	LODI, CA 95240
Site ID:	152857
CERS ID:	10184459
CERS Description:	Hazardous Waste Generator

CERS:

Name:	SHANDS DIESEL TRUCK REPAIR
Address:	885 E LODI AVE A
City,State,Zip:	LODI, CA 95240
Site ID:	152857
CERS ID:	10184459
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	07-23-2013
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/23/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes:	Returned to compliance on 12/14/2015. The emergency coordinator and modified contingency plan posted on the shop wall contains information that is no longer legible. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately update the emergency coordinator and modified emergency contingency plan and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/12/2017. A training program was not uploaded to CERS website. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 12/14/2015. The 2013 bills of lading for the recycling of used oil filters were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading for used oil filters for the last three years, maintain them on site, and submit copies to the EHD. One fifty-five gallon drum of drained used oil filters was so full of filters that it could not be closed. Another fifty-five gallon drum of drained used oil filters did not have any of the required label information. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately correct by ensuring that all drums of drained used oil filters are labeled with the words, "drained used oil filters" and the accumulation start date. Excess filters must be transferred from the overfilled drum to another drum of drained used oil filters so that [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/14/2015. The waste used oil tank lacked an accumulation start date. All hazardous waste tanks shall be marked with the words Hazardous Waste and the accumulation start date. Immediately ensure that all hazardous waste tanks are marked with the required information. The drum of hazardous waste coolant has an outdated accumulation start date of April 11, 2013. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date During the inspection a review of the disposal records indicated that the used coolant was picked up in 2015. Immediately label this container with the current accumulation start date and ensure that all hazardous waste containers are marked with all the required information including the most current accumulation start date.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

hazardous material or failure to document and maintain training records for a minimum of three years.

Violation Notes: Returned to compliance on 06/12/2017. No refresher training available . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain disposal records of spent lead batteries for three years.
Violation Notes: Returned to compliance on 12/14/2015. Bills of lading or manifests for the management of lead acid batteries for 2015, 2013 and 2012 were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading or manifests for lead acid batteries for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.
Violation Notes: Returned to compliance on 12/14/2015. Copies of 2013 hazardous waste disposal records for used oil and used coolant were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

copies of the 2013 hazardous waste disposal records for used oil and used coolant to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 10/14/2015. Metal and paint fines generated from sanding painted metal vehicle parts are being added to the contaminated floor sweep and stored in the outdoor shed without first determining particle size or hazardous properties. There are three open containers of contaminated floor sweep in the outdoor shed which Jefferson Stilwell (foreman) confirmed that he is not sure how to manage and has not yet made a CA Title 22 hazardous waste determination. Any person who generates a waste shall determine if the waste is a hazardous waste. During the inspection, Jefferson Stilwell confirmed that he will manage the metal fines, paint fines, and contaminated absorbent as a hazardous waste. Correct immediately by closing and labeling these containers of hazardous waste metal fines, paint fines, and contaminated absorbent. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes: Returned to compliance on 12/14/2015. Dark and wet oily stains were found on the shop floor near various equipment and containers, including but not limited to the hazardous waste oil tank, the parking lot sweeper, the chop saw, and fork lift. The cardboard bailer machine has leaked oil onto the shop floor. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the dark and wet oil spills and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/12/2017. The emergency response procedures were not uploaded to CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 06/12/2017. The site map is missing NORTH, STORM/SEWER DRAINS as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-25-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 9/24/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-28-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	This is an amended report that supersedes all previously issued reports for this inspection. On site to perform a routine hazardous waste inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 1, 2015. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. Notes: This facility has the following waste streams: - used oil - used coolant - used absorbent - spent lead acid batteries - metal fines - waste water - used oil filters
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Site Address:	885 E LODI AVE A
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-23-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Site Address:	885 E LODI AVE A
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-25-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Site Address: 885 E LODI AVE A
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-28-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Dave Shands
Entity Title: Not reported
Affiliation Address: PO Box 342
Affiliation City: Acampo
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95220
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Dave Shands
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 334-6126,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO BOX 342
Affiliation City: ACAMPO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95220

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jefferson Stilwell
Entity Title:	mechanic
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	SHANDS, DAVID
Entity Title:	Not reported
Affiliation Address:	PO BOX 342
Affiliation City:	ACAMPO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95220
Affiliation Phone:	(209) 334-6126,
Affiliation Type Desc:	Parent Corporation
Entity Name:	SHANDS DIESEL TRUCK REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

S75 **SHANDS DIESEL TRUCK REPAIR** **RCRA NonGen / NLR** **1024799795**
WNW **885 E LODI AVE** **CAL000213988**
1/8-1/4 **LODI, CA 95240**
0.246 mi.
1299 ft. **Site 2 of 3 in cluster S**

Actual:
52 ft.

Focus Map:
1

RCRA NonGen / NLR:

Date Form Received by Agency:	20000505
Handler Name:	SHANDS DIESEL TRUCK REPAIR
Handler Address:	885 E LODI AVE
Handler City,State,Zip:	LODI, CA 95240-0000
EPA ID:	CAL000213988
Contact Name:	DAVID SHANDS
Contact Address:	PO BOX 342
Contact City,State,Zip:	ACAMPO, CA 95220
Contact Telephone:	209-334-6126
Contact Fax:	209-333-3374
Contact Email:	DAVIDASHANDS@AOL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported

SHANDS DIESEL TRUCK REPAIR (Continued) **1024799795**

Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 342
Mailing City,State,Zip:		ACAMPO, CA 95220-0342
Owner Name:	SHANDS DAVID	
Owner Type:		Other
Operator Name:	DAVID SHANDS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20180905

SHANDS DIESEL TRUCK REPAIR (Continued) **1024799795**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAVID SHANDS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 342
Owner/Operator City,State,Zip:	ACAMPO, CA 95220
Owner/Operator Telephone:	209-334-6126
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: SHANDS DAVID	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 342
Owner/Operator City,State,Zip:	ACAMPO, CA 95220-0342
Owner/Operator Telephone:	209-334-6126
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20000505
Handler Name: SHANDS DIESEL TRUCK REPAIR	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

SHANDS DIESEL TRUCK REPAIR (Continued) **1024799795**

Evaluation Action Summary:
Evaluations: No Evaluations Found

T76 **BUSHCO PRECISION MACHINING, INC** **RCRA NonGen / NLR** **1024861619**
NNW **21 COMMERCE ST** **CAL000430104**
1/8-1/4 **SAN JOAQUIN, CA 95240**
0.247 mi.
1302 ft. **Site 1 of 2 in cluster T**

Actual:
59 ft.

Focus Map:
2

RCRA NonGen / NLR:

Date Form Received by Agency:		20170817
Handler Name:	BUSHCO PRECISION MACHINING, INC	
Handler Address:		21 COMMERCE ST
Handler City,State,Zip:		SAN JOAQUIN, CA 95240
EPA ID:		CAL000430104
Contact Name:		JEFF BUSH
Contact Address:		21 COMMERCE ST
Contact City,State,Zip:		SAN JOAQUIN, CA 95240
Contact Telephone:		209-333-8727
Contact Fax:		209-333-3731
Contact Email:		BUSHCO100EAOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		21 COMMERCE ST
Mailing City,State,Zip:		SAN JOAQUIN, CA 95240
Owner Name:	RICHARD BUSH	
Owner Type:		Other
Operator Name:	JEFF BUSH	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N

BUSHCO PRECISION MACHINING, INC (Continued) **1024861619**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JEFF BUSH	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	21 COMMERCE ST
Owner/Operator City,State,Zip:	SAN JOAQUIN, CA 95240
Owner/Operator Telephone:	209-333-8727
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: RICHARD BUSH	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	19416 NINDRIFT WOODBRIDGE

BUSHCO PRECISION MACHINING, INC (Continued) **1024861619**

Owner/Operator City,State,Zip: WOODBRIDGE, CA 95258
Owner/Operator Telephone: 209-333-8318
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20170817
Handler Name: BUSHCO PRECISION MACHINING, INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

T77 **BUSHCO PRECISION** **RCRA NonGen / NLR** **1024835074**
NNW **21 COMMERCE ST** **CAL000376523**
1/8-1/4 **LODI, CA 95240**
0.247 mi.
1302 ft. **Site 2 of 2 in cluster T**

Actual:
59 ft.

Focus Map:
2

RCRA NonGen / NLR:
Date Form Received by Agency: 20120723
Handler Name: BUSHCO PRECISION
Handler Address: 21 COMMERCE ST
Handler City,State,Zip: LODI, CA 95240
EPA ID: CAL000376523
Contact Name: JEFF BUSH
Contact Address: 21 COMMERCE ST
Contact City,State,Zip: LODI, CA 95240
Contact Telephone: 209-333-8727
Contact Fax: 209-333-3731
Contact Email: BUSHCO100@AOL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported

BUSHCO PRECISION (Continued) **1024835074**

Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		21 COMMERCE ST
Mailing City,State,Zip:		LODI, CA 95240-0000
Owner Name:	RICHARD BUSH	
Owner Type:		Other
Operator Name:	JEFF BUSH	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20180906

BUSHCO PRECISION (Continued) **1024835074**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: RICHARD BUSH	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	19416 WINDRIFT WAY
Owner/Operator City,State,Zip:	WOODBRIDGE, CA 95258-9062
Owner/Operator Telephone:	209-833-8318
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JEFF BUSH	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	21 COMMERCE ST
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-333-8727
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20120723
Handler Name: BUSHCO PRECISION	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

BUSHCO PRECISION (Continued) **1024835074**

Evaluation Action Summary:
Evaluations: No Evaluations Found

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78 **FRANKLYN R WENDELL** **HIST UST** **U001604320**
South **14199 N CURRY AVE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.247 mi.
1306 ft.

Actual:
57 ft.

Focus Map:
10

HIST UST:

Name:	FRANKLYN R WENDELL
Address:	14199 N CURRY AVE
City,State,Zip:	LODI, CA 95240
File Number:	0002FC53
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FC53.pdf
Region:	STATE
Facility ID:	00000053489
Facility Type:	Other
Other Type:	ALMOND ORCHARD
Contact Name:	Not reported
Telephone:	2093343821
Owner Name:	FRANKLYN R. WENDELL
Owner Address:	14199 N CURRY AVE
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0001
Tank Num:	001
Container Num:	#1
Year Installed:	1960
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

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79 **PAT HALE** **HIST UST** **U001604470**
North **7540 E KETTLEMAN LN** **N/A**
1/8-1/4 **LODI, CA 95240**
0.248 mi.
1308 ft.

Actual:
63 ft.

Focus Map:
11

HIST UST:

Name:	PAT HALE
Address:	7540 E KETTLEMAN LN
City,State,Zip:	LODI, CA 95240
File Number:	0002FFC1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FFC1.pdf
Region:	STATE
Facility ID:	00000028243
Facility Type:	Other
Other Type:	FARM
Contact Name:	PAT HALE
Telephone:	2093694976

PAT HALE (Continued) **U001604470**

Owner Name: PAT HALE
Owner Address: 7540 E. KETTLEMAN LN.
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000350
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

U80 **HEARTLAND STEEL PRODUCTS WEST LLC** **UST** **U004260085**
NW **213 S KELLY ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.248 mi.
1309 ft. **Site 1 of 2 in cluster U**

Actual: **52 ft.**

Focus Map: **1**

UST SAN JOAQUIN:
Name: HEARTLAND STEEL PRODUCTS WEST LLC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0000696
Mail Address: 213 Kelly Street
Mail Address 2: Not reported
Mail Care of: Heartland Steel Products West, LLC LP
Mail City,St,Zip: Lodi, CA 95240

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380

HEARTLAND STEEL PRODUCTS WEST LLC (Continued) **U004260085**

Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 3
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 4
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 5
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380

HEARTLAND STEEL PRODUCTS WEST LLC (Continued) **U004260085**

Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 6
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

U81 **LODI METAL TECH,INC** **RCRA-LQG** **1000244929**
NW **213 SO. KELLY STREET** **ENVIROSTOR** **CAD981369994**
1/8-1/4 **LODI, CA 95240** **LUST**
0.248 mi. **CERS HAZ WASTE**
1309 ft. **Site 2 of 2 in cluster U** **SWEEPS UST**
HIST UST
Actual: **CA FID UST**
52 ft. **ICIS**
US AIRS
Focus Map: **Cortese**
1 **EMI**
HAZNET
HIST CORTESE
NPDES
WDS
CIWQS
CERS
HWTS

RCRA-LQG:
Date Form Received by Agency: 20220225
Handler Name: HEARTLAND STEEL PRODUCTS WEST, LLC
Handler Address: 213 S KELLY ST
Handler City,State,Zip: LODI, CA 95240
EPA ID: CAD981369994
Contact Name: WESLEY K HIEB
Contact Address: S KELLY ST

LODI METAL TECH,INC (Continued) **1000244929**

Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-642-4464
Contact Fax:	Not reported
Contact Email:	WHIEB@HEARTLANDSTEEL.COM
Contact Title:	DIRECTOR OF OPERATIONS
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	WILLS STREET
Mailing City,State,Zip:	MARYSVILLE, MI 48040
Owner Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Owner Type:	Private
Operator Name:	HEARTLAND STEEL PRODUCTS WEST, LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

LODI METAL TECH,INC (Continued) **1000244929**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220225
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Legal Status:	Private
Date Became Current:	20220217
Date Ended Current:	Not reported
Owner/Operator Address:	2420 WILLS STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040
Owner/Operator Telephone:	209-642-4464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	WHIEB@HEARTLANDSTEEL.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	HEARTLAND STEEL PRODUCTS WEST, LLC
Legal Status:	Private
Date Became Current:	20220217
Date Ended Current:	Not reported
Owner/Operator Address:	2420 WILL STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040

LODI METAL TECH,INC (Continued) **1000244929**

Owner/Operator Telephone: 209-642-4464
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: WHIEB@HEARTLANDSTEEL.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FRED L BAYBARZ
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: LODI METAL TECH INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19860124
Handler Name: LODI METAL TECH INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20220225

LODI METAL TECH,INC (Continued) **1000244929**

Handler Name: HEARTLAND STEEL PRODUCTS WEST, LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 337127
NAICS Description: INSTITUTIONAL FURNITURE MANUFACTURING

NAICS Code: 337215
NAICS Description: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19900119
Actual Return to Compliance Date: 19920427
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19860605
Actual Return to Compliance Date:	19860605
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19860605
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19931228
Actual Return to Compliance Date:	19981228
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920427
Actual Return to Compliance Date:	19931228
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19900119
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920427
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19860605
Evaluation Responsible Agency:	State
Found Violation:	Yes

LODI METAL TECH,INC (Continued) **1000244929**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19860605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19931228
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19981228
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920427
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19931228
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19860605
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ENVIROSTOR:

Name:	LODI METAL TECH
Address:	213 SOUTH KELLY STREET
City,State,Zip:	LODI, CA 95240
Facility ID:	39340005
Status:	Refer: Other Agency
Status Date:	11/16/1994

LODI METAL TECH,INC (Continued) **1000244929**

Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13197
Longitude: -121.2555
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Sludge - Paint
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110000770942
Alias Type: EPA (FRS #)
Alias Name: T0607700150
Alias Type: GeoTracker Global ID
Alias Name: 39340005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/07/1982
Comments: FACILITY IDENTIFIED FROM INDUSTRIAL INDEX.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST REG 5:
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
Region: 5
Status: Case Closed
Case Number: 390216
Case Type: Soil only
Substance: HYDROCARBONS
Staff Initials: JLB

LODI METAL TECH,INC (Continued) **1000244929**

Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:

Name:	LODI METAL TECH
Address:	213 KELLY ST S
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700150
Global Id:	T0607700150
Latitude:	38.1313965
Longitude:	-121.2549802
Status:	Completed - Case Closed
Status Date:	11/08/1990
Case Worker:	Not reported
RB Case Number:	390216
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	21315
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0607700150
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700150
Action Type:	Other
Date:	05/05/1988
Action:	Leak Reported
Global Id:	T0607700150
Action Type:	RESPONSE
Date:	12/22/1988
Action:	Preliminary Site Assessment Workplan
Global Id:	T0607700150
Action Type:	ENFORCEMENT
Date:	11/13/1990
Action:	Staff Letter - #11/13/1990
Global Id:	T0607700150
Action Type:	ENFORCEMENT
Date:	05/05/1988
Action:	Unauthorized Release Form - #5/5/1988
Global Id:	T0607700150

LODI METAL TECH,INC (Continued) **1000244929**

Action Type: Other
Date: 02/27/1987
Action: Leak Discovery

LUST:
Global Id: T0607700150
Status: Open - Case Begin Date
Status Date: 02/27/1987

Global Id: T0607700150
Status: Completed - Case Closed
Status Date: 11/08/1990

CERS HAZ WASTE:
Name: HEARTLAND STEEL PRODUCTS WEST LLC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Site ID: 35905
CERS ID: 10180645
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 6

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000002
Tank Status: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Name:	LODI METAL TECH
Address:	213 S KELLEY ST
City:	LODI
Status:	Not reported
Comp Number:	2131
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-002131-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Name:	LODI METAL TECH
Address:	213 S KELLEY ST
City:	LODI
Status:	Not reported
Comp Number:	2131
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-002131-000004
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Name:	LODI METAL TECH
Address:	213 S KELLEY ST
City:	LODI
Status:	Not reported
Comp Number:	2131
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000005
Tank Status: Not reported
Capacity: 100
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: PAINT THINNE
Number Of Tanks: Not reported

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000006
Tank Status: Not reported
Capacity: 600
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95241
File Number: 0002FEB0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FEB0.pdf
Region: STATE
Facility ID: 00000000716
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: ROBERT LIND
Telephone: 2093342500
Owner Name: LODI METAL TECH., INC.
Owner Address: 213 S. KELLY ST.
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0006

Tank Num: 001
Container Num: 6
Year Installed: 1982
Tank Capacity: 00000600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

Tank Num: 002

LODI METAL TECH,INC (Continued) **1000244929**

Container Num:	5
Year Installed:	1972
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	003
Container Num:	4
Year Installed:	1974
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	004
Container Num:	3
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	005
Container Num:	2
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	006
Container Num:	1
Year Installed:	1972
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39003652
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093342500
Mail To:	Not reported
Mailing Address:	213 S KELLEY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95241

LODI METAL TECH,INC (Continued) **1000244929**

Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

ICIS:
Enforcement Action ID: CASJVA000006077N100200114
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200114
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Administrative Order
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200112
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200112
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200095
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200095
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Administrative Order
Facility County: SAN JOAQUIN

LODI METAL TECH,INC (Continued) **1000244929**

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200093
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200093
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200091
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200091
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200048
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200048
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET

LODI METAL TECH,INC (Continued) **1000244929**

	LODI, CA 95240
Enforcement Action Type:	Administrative Order
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	CASJVA000006077N100200046
FRS ID:	110000770942
Action Name:	LODI METAL TECH,INC 06077N100200046
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET
	LODI, CA 95240
Enforcement Action Type:	Notice of Violation
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	09-1989-A004
FRS ID:	110000770942
Action Name:	LODI METAL TECH,INC 06077N100200025
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET
	LODI, CA 95240
Enforcement Action Type:	CAA 113A Admin Compliance Order (Non-Penalty)
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	113A
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	09-1987-A009
FRS ID:	110000770942

LODI METAL TECH,INC (Continued) **1000244929**

Action Name:	LODI METAL TECH,INC 06077N100200017
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET LODI, CA 95240
Enforcement Action Type:	CAA 113A Admin Compliance Order (Non-Penalty)
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	113A
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported

US AIRS (AFS):

Envid:	1000244929
Region Code:	09
County Code:	CA077
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
D and B Number:	Not reported
Facility Site Name:	LODI METAL TECH,INC
Primary SIC Code:	2542
NAICS Code:	337127
Default Air Classification Code:	MAJ
Facility Type of Ownership Code:	POF
Air CMS Category Code:	TVM
HPV Status:	Not reported

US AIRS (AFS):

Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2005-08-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Compliance Investigation
Activity Status:	Not reported

Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-10-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Compliance Investigation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-09-12 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-11-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-02-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-05-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-06-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-10-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-05-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-07-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-11-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-06-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-12-28 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-05-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-02-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-08-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2007-05-01 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-08-19 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-02-10 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-12-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-08-20 00:00:00
Activity Status Date: 1987-08-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-02-07 00:00:00
Activity Status Date: 1989-02-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-02-06 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2008-02-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2008-06-05 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-10-16 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-05-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-06-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-03 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-01-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-05-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-04 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-12-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-04-03 00:00:00
Activity Status Date: 2002-04-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-12-17 00:00:00
Activity Status Date: 2007-12-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-05-12 00:00:00
Activity Status Date: 2008-05-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-06-01 00:00:00
Activity Status Date: 2000-06-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-01 00:00:00
Activity Status Date: 2007-08-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-28 00:00:00
Activity Status Date: 2008-02-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

CORTESE:
Name: LODI METAL TECH
Address: 213 KELLY ST S
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700150
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED

LODI METAL TECH,INC (Continued) **1000244929**

Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	LODI METAL TECH,INC
Address:	213 KELLY ST
City,State,Zip:	LODI, CA 95241
Year:	1990
County Code:	39
Air Basin:	SJV
Facility ID:	194
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH,INC
Address:	213 KELLY ST
City,State,Zip:	LODI, CA 95241
Year:	1995
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LODI METAL TECH,INC (Continued) **1000244929**

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	1999
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20
Reactive Organic Gases Tons/Yr:	20
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	2000
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	23
Reactive Organic Gases Tons/Yr:	23
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	2004
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10.95638664
Reactive Organic Gases Tons/Yr:	10.3642182
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0.749910021
SOX - Oxides of Sulphur Tons/Yr:	0.0032139

LODI METAL TECH,INC (Continued) **1000244929**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLEY ST
City,State,Zip: LODI, CA 95241
Year: 2005
County Code: 39
Air Basin: SJV
Facility ID: 1002
Air District Name: SJU
SIC Code: 3479
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8.730853967068973650
Reactive Organic Gases Tons/Yr: 8.2506109996795654
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: .716799983978271
SOX - Oxides of Sulphur Tons/Yr: .00307199993133545
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2008
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2009
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0

LODI METAL TECH,INC (Continued) **1000244929**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	20777
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	20777
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Year:	2012
County Code:	39
Air Basin:	SJV
Facility ID:	20777
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 952410000
Contact:	S MOFFET FACILITY MAINT. MGR.
Telephone:	2093342500
Mailing Name:	Not reported
Mailing Address:	PO BOX 967
Year:	2007
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	16.95
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.55
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	ARD981057870
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	-
Tons:	0.187
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	291 - Latex waste
Disposal Method:	-
Tons:	0.9174
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	ARD981057870
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	-
Tons:	1.75
Year:	2006

LODI METAL TECH,INC (Continued) **1000244929**

Gepaid: CAD981369994
TSD EPA ID: CAT080033681
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 2.5

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 4.5

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 1.75

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: ARD981057870
CA Waste Code: 291 - Latex waste
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.4587

Year: 2005
Gepaid: CAD981369994
TSD EPA ID: CAT080033681
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 7.8

Click this hyperlink while viewing on your computer to access
54 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2000
Gen EPA ID: CAD981369994

Shipment Date: 20001214
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20001215
Manifest ID: 99766568
Trans EPA ID: CAD009661844
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: Not reported
TSDF Alt EPA ID: CAT080033681
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001214
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001215
Manifest ID:	99766568
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001214
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001215
Manifest ID:	99766568
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.1
Waste Quantity:	4200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000711
Creation Date:	9/25/2000 0:00:00
Receipt Date:	20000720
Manifest ID:	98290399
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.1
Waste Quantity:	4200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000225
Creation Date:	5/17/2000 0:00:00
Receipt Date:	20000310
Manifest ID:	98290359
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000225
Creation Date:	5/17/2000 0:00:00
Receipt Date:	20000310
Manifest ID:	98290359
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD981369994
Shipment Date:	20021028
Creation Date:	2/25/2003 18:31:38
Receipt Date:	20021101
Manifest ID:	22136249
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20020717
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020722
Manifest ID:	21923708
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020715
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020723
Manifest ID:	21923967
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020711
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	21923708
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020307
Creation Date:	7/22/2002 18:32:38
Receipt Date:	20020311
Manifest ID:	21714068
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020307
Creation Date:	7/22/2002 18:32:38
Receipt Date:	20020311

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	21714068
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020307
Creation Date:	7/17/2002 18:34:07
Receipt Date:	20020315
Manifest ID:	21714067
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD981369994

Shipment Date:	20030918
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20030924
Manifest ID:	22917522
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030918
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20030924
Manifest ID:	22917522
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030508
Creation Date:	6/23/2004 10:00:42
Receipt Date:	20030512
Manifest ID:	22496339
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030218
Creation Date:	3/16/2007 18:30:50
Receipt Date:	20030226
Manifest ID:	22564704
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981369994
Shipment Date:	19931008
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931015
Manifest ID:	93110556
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000633164
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 5:	Not reported
Shipment Date:	19930614
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930615
Manifest ID:	93110470
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000633164
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD000633164
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981369994
Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201
Manifest ID:	93071501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	93071501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1876
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950728
Creation Date:	4/3/1996 0:00:00
Receipt Date:	19950804
Manifest ID:	95607731
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	CAD102827599
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.05
Waste Quantity:	2100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950327
Creation Date:	10/23/1995 0:00:00
Receipt Date:	19950331
Manifest ID:	95607604
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981369994
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.2
Waste Quantity:	6400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.8
Waste Quantity:	7600

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961104
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961105
Manifest ID:	96052501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	17.49
Waste Quantity:	5300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961023
Creation Date:	5/20/1997 0:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Receipt Date:	19961023
Manifest ID:	96331799
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960715
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960724
Manifest ID:	96052418
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.225
Waste Quantity:	2450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960405
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960408
Manifest ID:	95607944
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD981369994
Shipment Date:	20070920
Creation Date:	12/28/2007 18:31:07
Receipt Date:	20070928
Manifest ID:	003031036JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	7.2
Waste Quantity:	14400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070920
Creation Date:	12/28/2007 18:31:07
Receipt Date:	20070928
Manifest ID:	003031036JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LODI METAL TECH,INC (Continued) **1000244929**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.5
Waste Quantity:	9000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070604
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070613
Manifest ID:	001402383JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070604
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070613
Manifest ID:	001402383JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070220
Creation Date:	9/24/2007 11:12:35
Receipt Date:	20070226
Manifest ID:	001965540JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070220
Creation Date:	9/24/2007 11:12:35
Receipt Date:	20070226
Manifest ID:	001965540JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.25
Waste Quantity:	4500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981369994

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991007
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19991008
Manifest ID:	98290287
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991005
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19991007
Manifest ID:	98290273
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	20.016
Waste Quantity:	4800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990727
Creation Date:	9/21/1999 0:00:00
Receipt Date:	19990728
Manifest ID:	98290268
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	15.96
Waste Quantity:	4200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD981369994

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20010925
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20010927
Manifest ID:	21232603
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010705
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010710
Manifest ID:	21042859
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010705
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010710
Manifest ID:	21042859
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010529
Creation Date:	8/29/2001 0:00:00
Receipt Date:	20010604
Manifest ID:	21070124
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010425
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010430
Manifest ID:	21122943
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.9
Waste Quantity:	1800
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010322
Manifest ID:	20899245
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.25
Waste Quantity:	2500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/20/2001 0:00:00
Receipt Date:	20010327
Manifest ID:	20899244
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.079
Waste Quantity:	495
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010322

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	20899245
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD981369994
Shipment Date:	20061120
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061129
Manifest ID:	001404900JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061120
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061129
Manifest ID:	001404900JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060907
Creation Date:	7/13/2007 18:30:17
Receipt Date:	20060917
Manifest ID:	001408664JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS (ID #778)
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060817
Creation Date:	9/27/2006 18:32:10
Receipt Date:	Not reported
Manifest ID:	24920584
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060817
Creation Date:	9/27/2006 18:32:10
Receipt Date:	Not reported
Manifest ID:	24920584
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060817
Creation Date:	2/22/2007 18:30:13
Receipt Date:	20060903
Manifest ID:	24920581
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS ID #778
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20060817
Creation Date:	2/22/2007 18:30:13
Receipt Date:	20060903
Manifest ID:	24920581
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS ID #778
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	- Not reported
Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060706
Creation Date:	9/8/2006 18:33:30
Receipt Date:	20060711
Manifest ID:	25178766
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.5
Waste Quantity:	7000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060706
Creation Date:	9/8/2006 18:33:30
Receipt Date:	20060711
Manifest ID:	25178766
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060206
Creation Date:	7/5/2006 12:04:15
Receipt Date:	20060215
Manifest ID:	25110686
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.05
Waste Quantity:	2100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD981369994

Shipment Date:	19940818
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940826
Manifest ID:	93071350
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZC000000150
Trans Name:	Not reported
TSDF Alt EPA ID:	AZC000000150
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Meth Code:	- Not reported
Quantity Tons:	1.8
Waste Quantity:	3600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940119
Creation Date:	9/14/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93110552
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.4
Waste Quantity:	2800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940119
Creation Date:	9/14/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93110552
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Info:

Year:	2004
Gen EPA ID:	CAD981369994
Shipment Date:	20041119
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041210
Manifest ID:	24069824
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041119
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041210
Manifest ID:	24069824
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040812
Creation Date:	12/28/2004 14:46:39
Receipt Date:	20040816
Manifest ID:	23828035
Trans EPA ID:	CA0000970392

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040518
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040528
Manifest ID:	23398381
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	4
Waste Quantity:	8000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040518
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040528
Manifest ID:	23398381
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040426
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040510
Manifest ID:	23396219
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040426
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040510
Manifest ID:	23396219
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Info:

Year:	1998
Gen EPA ID:	CAD981369994
Shipment Date:	19980306
Creation Date:	5/8/1998 0:00:00
Receipt Date:	19980312
Manifest ID:	96052436
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD000088252
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981369994
Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050623
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050705
Manifest ID:	24513424
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050623
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050705
Manifest ID:	24513424
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050307
Creation Date:	6/2/2005 18:31:52
Receipt Date:	20050314
Manifest ID:	24401799
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050307
Creation Date:	6/2/2005 18:31:52
Receipt Date:	20050314
Manifest ID:	24401799
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD981369994
Shipment Date:	19971210
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19971216
Manifest ID:	96052744
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	19971013
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19971023
Manifest ID:	96052705
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970506
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970512
Manifest ID:	96052595
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970221
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970227
Manifest ID:	96052543
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HIST CORTESE:

edr_fname:	LODI METAL TECH
edr_fadd1:	213 KELLY
City,State,Zip:	LODI, CA 95241
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390216

NPDES:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	412961
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39I023055
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2420 Wills St
Discharge Name:	Heartland Steel Products West LLC
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001

LODI METAL TECH,INC (Continued) **1000244929**

Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	412961
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Heartland Steel Products West LLC
Discharge Address:	2420 Wills St
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	412961
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/09/2011
Processed Date:	03/09/2011
Status:	Active
Status Date:	03/09/2011
Place Size:	12
Place Size Unit:	Acres
Contact:	Darryl Stronghead
Contact Title:	Production Manager
Contact Phone:	209-367-4444
Contact Phone Ext:	Not reported
Contact Email:	dstrongheart@spacerak.net
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040
Operator Contact:	Lucas Sutterer
Operator Contact Title:	President of operations
Operator Contact Phone:	615-887-0513
Operator Contact Phone Ext:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Operator Contact Email:	lsutterer@heartlandsteel.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Michigan
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-367-4444
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Lucas Sutterer
Certifier Title:	Operations
Certification Date:	16-MAR-17
Primary Sic:	2542-Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
Secondary Sic:	3441-Fabricated Structural Metal
Tertiary Sic:	3448-Prefabricated Metal Buildings and Components

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39I023055
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/09/2011
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	412961
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Heartland Steel Products West LLC
Discharge Address:	2420 Wills St
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	412961
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/09/2011
Processed Date:	03/09/2011
Status:	Active
Status Date:	03/09/2011
Place Size:	12
Place Size Unit:	Acres
Contact:	Darryl Stronghead

LODI METAL TECH,INC (Continued) **1000244929**

Contact Title:	Production Manager
Contact Phone:	209-367-4444
Contact Phone Ext:	Not reported
Contact Email:	dstrongheart@spacerak.net
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040
Operator Contact:	Lucas Sutterer
Operator Contact Title:	President of operations
Operator Contact Phone:	615-887-0513
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lsutterer@heartlandsteel.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Michigan
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-367-4444
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Lucas Sutterer
Certifier Title:	Operations
Certification Date:	16-MAR-17
Primary Sic:	2542-Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
Secondary Sic:	3441-Fabricated Structural Metal
Tertiary Sic:	3448-Prefabricated Metal Buildings and Components

WDS:

Name:	EXXON SANTA YNEZ FLORES CANYON
Address:	213 Kelly St
City:	LODI
Facility ID:	5S 39I000260

LODI METAL TECH,INC (Continued) **1000244929**

Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	2093342500
Facility Contact:	FRED CAIN
Agency Name:	LODI METAL TECH INC
Agency Address:	PO Box 967
Agency City,St,Zip:	Lodi 952410967
Agency Contact:	MD KELLY
Agency Telephone:	2093342500
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Agency:	Lodi Metal Tech
Agency Address:	PO Box 967, Lodi, CA 95241
Place/Project Type:	Industrial - Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
SIC/NAICS:	2542(+)
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated

LODI METAL TECH,INC (Continued) **1000244929**

Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I000260
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/06/1992
Termination Date:	09/17/2009
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.13184
Longitude:	-121.25503

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Agency:	Heartland Steel Products West LLC
Agency Address:	2420 Wills St, Marysville, MI 48040
Place/Project Type:	Industrial - Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
SIC/NAICS:	2542(+)
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I023055
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/09/2011
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	3
Violations within 5 years:	2
Latitude:	38.13185
Longitude:	-121.25557

CERS:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Site ID:	35905
CERS ID:	10180645
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021

LODI METAL TECH,INC (Continued) **1000244929**

Citation:	HSC 6.95 25508(a)(3 - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The Business Activities and Owner/Operator Identification element was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	07-05-2011
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to maintain stormwater BMPs. Exceedance of EPA benchmarks.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The training plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter

LODI METAL TECH,INC (Continued) **1000244929**

	6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	OBSERVATION: A site map was not completed and submitted as part of the business plan in 2020 and is incomplete. The site map is missing the following required elements: -internal roads -storm/sewer drains -hazardous material storage areas (with chemical name) -emergency equipment: fire extinguishers, eye wash stations, spill kits -emergency shut-offs -all access/exit points REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	01-01-2021
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Level 1 ERA Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	09-12-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/12/2019. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - 2 approximately 1000 pound totes containing latex paint chips - 7 black 55 gallon drums containing hazardous waste solids debris, petroleum hydrocarbons - 6 black 55 gallon drums containing hazardous waste liquids sludge, petroleum hydrocarbons The hazardous waste labels on all containers were each lacking hazardous properties. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days. This was corrected on site.

LODI METAL TECH,INC (Continued) **1000244929**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan training records were not found on site. REGULATION GUIDANCE: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appr
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The emergency response plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC

LODI METAL TECH,INC (Continued) **1000244929**

Violation Date:	07-15-2020
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2019-2020 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The hazardous materials inventory was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan was not reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was not submitted in 2020 and submitted late in 2021 on July 21, 2021. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year CORRECTIVE ACTION: Submit a statement to SJC EHD stating that the business will annually certify/submit the annual HMBP to CERS by January 15.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency

LODI METAL TECH,INC (Continued) **1000244929**

Eval Notes:	Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 7 violation(s) during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 09, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-12-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 12, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: - Hazardous Waste Labeling Information - Employee Training Record Form - Forklift Maintenance Form Waste streams found: - Used Oil - Hazardous Waste Solids: Debris Petroleum Hydrocarbons - Hazardous Waste Solids: Latex Paint Chips - Hazardous Waste Liquids: Sludge Petroleum Hydrocarbons - Universal Waste Lamps - Universal Waste Aerosols
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Violations were not observed at the time of the inspection. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report and list of Free CUPA Classes. Note: See PR0517911 for full hazardous waste tonnage.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP

LODI METAL TECH,INC (Continued) **1000244929**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-12-2021
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for Late 2020-2021 Level 1 ERA Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-23-2012
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 13267 letter for benchmark exceedances.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-17-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-09-2020

LODI METAL TECH,INC (Continued) **1000244929**

Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for Late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 35905
Facility Name: HEARTLAND STEEL PRODUCTS WEST LLC
Env Int Type Code: HWG
Program ID: 10180645
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.131850
Longitude: -121.255570

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Owner/Operator
Entity Name: Heartland Steel Products West LLC
Entity Title: Operator
Affiliation Address: 2420 Wills St
Affiliation City: Marysville
Affiliation State: MI
Affiliation Country: Not reported
Affiliation Zip: 48040
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Danny Aspiras
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 213 S. Kelly Street
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240

LODI METAL TECH,INC (Continued) **1000244929**

Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Wes Hieb
Entity Title:	Director of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Danny Aspiras
Entity Title:	Not reported
Affiliation Address:	11870 N. Hwy 99
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Heartland Steel Products West, LLC
Entity Title:	Not reported
Affiliation Address:	2420 Wills Street
Affiliation City:	Marysville
Affiliation State:	MI
Affiliation Country:	United States
Affiliation Zip:	48040
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Operator
Entity Name:	Heartland Steel Products West, LLC LP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Parent Corporation
Entity Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Site ID:	35905

LODI METAL TECH,INC (Continued) **1000244929**

CERS ID: 808537
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3 - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The Business Activities and Owner/Operator Identification element was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 07-05-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: Failure to maintain stormwater BMPs. Exceedance of EPA benchmarks.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The training plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP

LODI METAL TECH,INC (Continued) **1000244929**

Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	OBSERVATION: A site map was not completed and submitted as part of the business plan in 2020 and is incomplete. The site map is missing the following required elements: -internal roads -storm/sewer drains -hazardous material storage areas (with chemical name) -emergency equipment: fire extinguishers, eye wash stations, spill kits -emergency shut-offs -all access/exit points REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	01-01-2021
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Level 1 ERA Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	09-12-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/12/2019. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - 2 approximately 1000 pound totes containing latex paint chips - 7 black 55 gallon drums containing hazardous waste solids debris, petroleum hydrocarbons - 6 black 55 gallon drums containing hazardous waste liquids sludge, petroleum hydrocarbons The hazardous waste labels on all containers were each lacking hazardous properties. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste ,

LODI METAL TECH,INC (Continued) **1000244929**

name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days. This was corrected on site.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 09/03/2021. OBSERVATION: The business plan training records were not found on site. REGULATION GUIDANCE: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appr
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The emergency response plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.

LODI METAL TECH,INC (Continued) **1000244929**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	07-15-2020
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2019-2020 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The hazardous materials inventory was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan was not reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was not submitted in 2020 and submitted late in 2021 on July 21, 2021. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year CORRECTIVE ACTION: Submit a statement to SJC EHD stating that the business will annually certify/submit the annual HMBP to CERS by January 15.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

LODI METAL TECH,INC (Continued) **1000244929**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 7 violation(s) during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 09, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-12-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 12, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: - Hazardous Waste Labeling Information - Employee Training Record Form - Forklift Maintenance Form Waste streams found: - Used Oil - Hazardous Waste Solids: Debris Petroleum Hydrocarbons - Hazardous Waste Solids: Latex Paint Chips - Hazardous Waste Liquids: Sludge Petroleum Hydrocarbons - Universal Waste Lamps - Universal Waste Aerosols
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Violations were not observed at the time of the inspection. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report and list of Free CUPA Classes. Note: See PR0517911 for full hazardous waste tonnage.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2013

LODI METAL TECH,INC (Continued) **1000244929**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-12-2021
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for Late 2020-2021 Level 1 ERA Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-23-2012
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 13267 letter for benchmark exceedances.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-17-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905

LODI METAL TECH,INC (Continued) **1000244929**

Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-09-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for Late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 35905
Facility Name: HEARTLAND STEEL PRODUCTS WEST LLC
Env Int Type Code: HWG
Program ID: 10180645
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.131850
Longitude: -121.255570

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Owner/Operator
Entity Name: Heartland Steel Products West LLC
Entity Title: Operator
Affiliation Address: 2420 Wills St
Affiliation City: Marysville
Affiliation State: MI
Affiliation Country: Not reported
Affiliation Zip: 48040
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Danny Aspiras
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Affiliation Address:	213 S. Kelly Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Wes Hieb
Entity Title:	Director of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Danny Aspiras
Entity Title:	Not reported
Affiliation Address:	11870 N. Hwy 99
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Heartland Steel Products West, LLC
Entity Title:	Not reported
Affiliation Address:	2420 Wills Street
Affiliation City:	Marysville
Affiliation State:	MI
Affiliation Country:	United States
Affiliation Zip:	48040
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Operator
Entity Name:	Heartland Steel Products West, LLC LP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Parent Corporation
Entity Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

LODI METAL TECH,INC (Continued) **1000244929**

Name: LODI METAL TECH
Address: 213 KELLY ST S
City,State,Zip: LODI, CA 95240
Site ID: 198441
CERS ID: T0607700150
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: HEARTLAND STEEL PRODUCTS WEST LLC
Address: 213 S KELLY ST
Address 2: Not reported
City,State,Zip: LODI, CA 95241
EPA ID: CAD981369994
Inactive Date: Not reported
Create Date: 11/14/1986
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 2420 WILLS ST
Mailing Address 2: Not reported
Mailing City,State,Zip: MARYSVILLE, MI 48040
Owner Name: HEARTLAND STEEL PRODUCTS WEST LLC
Owner Address: 2420 WILLS ST
Owner Address 2: Not reported
Owner City,State,Zip: MARYSVILLE, MI 48040
Contact Name: WESLEY K HIEB
Contact Address: 213 S KELLY ST
Contact Address 2: Not reported
City,State,Zip: LODI, CA 952403107
Facility Status: Active
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 38.131811
Longitude: -121.254979

NAICS:
EPA ID: CAD981369994
Create Date: 2007-03-27 16:17:47.000
NAICS Code: 337127
NAICS Description: Institutional Furniture Manufacturing
Issued EPA ID Date: 1986-11-14 00:00:00
Inactive Date: 2006-06-30 00:00:00
Facility Name: LODI METAL TECH INC
Facility Address: 213 S KELLY ST
Facility Address 2: Not reported
Facility City: LODI
Facility County: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Facility State:	CA
Facility Zip:	952410000
EPA ID:	CAD981369994
Create Date:	2007-03-27 16:17:47.000
NAICS Code:	337127
NAICS Description:	Institutional Furniture Manufacturing
Issued EPA ID Date:	1986-11-14 00:00:00
Inactive Date:	2006-06-30 00:00:00
Facility Name:	LODI METAL TECH INC
Facility Address:	213 S KELLY ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952410000

S82 **LODI READY MIX** **LUST** **S105033906**
WNW **851 LODI AVE E** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.262 mi.
1383 ft. **Site 3 of 3 in cluster S**

Actual:
52 ft.

Focus Map:
1

LUST REG 5:

Name:	LODI READY MIX
Address:	851 LODI AVE E
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390467
Case Type:	Soil only
Substance:	GASOLINE
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

LUST:

Name:	LODI READY MIX
Address:	851 LODI AVE E
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700362
Global Id:	T0607700362
Latitude:	38.131808
Longitude:	-121.256455
Status:	Completed - Case Closed
Status Date:	11/07/1995
Case Worker:	Not reported
RB Case Number:	390467
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1359
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline

LODI READY MIX (Continued) **S105033906**

Site History: Not reported

LUST:
Global Id: T0607700362
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700362
Action Type: Other
Date: 02/06/1990
Action: Leak Reported

Global Id: T0607700362
Action Type: REMEDIATION
Date: 01/29/1989
Action: Not reported

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 01/29/1996
Action: Staff Letter - #1/29/1996

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 06/18/1993
Action: Staff Letter - #6/18/1993

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 03/29/1990
Action: Other Report - #3/29/1990

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 04/13/1993
Action: Staff Letter - #5/4/1990

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 10/26/1995
Action: Deed Restriction Release / Recission of LUC - #10/26/1995

Global Id: T0607700362
Action Type: RESPONSE
Date: 08/02/1993
Action: Other Report / Document

Global Id: T0607700362
Action Type: RESPONSE
Date: 05/12/1995
Action: Request for Closure

LODI READY MIX (Continued) **S105033906**

Global Id: T0607700362
Action Type: RESPONSE
Date: 06/07/1993
Action: Correspondence

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 11/07/1995
Action: Closure/No Further Action Letter

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 10/18/1993
Action: Staff Letter - #10/18/1993

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 02/06/1990
Action: Unauthorized Release Form - #2/6/1990

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 06/21/1995
Action: Staff Letter - #6/21/1995

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 11/07/1995
Action: Staff Letter - #11/7/1995

Global Id: T0607700362
Action Type: Other
Date: 01/29/1989
Action: Leak Discovery

LUST:
Global Id: T0607700362
Status: Open - Case Begin Date
Status Date: 01/29/1989

Global Id: T0607700362
Status: Open - Site Assessment
Status Date: 02/06/1990

Global Id: T0607700362
Status: Completed - Case Closed
Status Date: 11/07/1995

CORTESE:
Name: LODI READY MIX
Address: 851 LODI AVE E
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700362

LODI READY MIX (Continued) **S105033906**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	LODI READY MIX
Address:	851 LODI AVE E
City,State,Zip:	LODI, CA 95240
Site ID:	190943
CERS ID:	T0607700362
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

83
WNW
1/4-1/2
0.292 mi.
1544 ft.

Actual:
52 ft.

Focus Map:
1

LODI READY MIX & BUILDING MATE **HIST UST** **U001604437**
851 E LODI AVE **HIST CORTESE** **N/A**
LODI, CA 95240

HIST UST:

Name:	LODI READY MIX & BUILDING MATE
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000019741
Facility Type:	Other
Other Type:	READY MIX
Contact Name:	Not reported
Telephone:	2093682794
Owner Name:	E.F.MITCHLER CO

LODI READY MIX & BUILDING MATE (Continued) **U001604437**

Owner Address: 400 S LINCOLN ST
Owner City,St,Zip: STOCKTON, CA 95203
Total Tanks: 0002

Tank Num: 001
Container Num: 3
Year Installed: 1962
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 10
Leak Detection: Visual

Tank Num: 002
Container Num: 4
Year Installed: 1962
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 10
Leak Detection: Visual

HIST CORTESE:
edr_fname: LODI READY MIX
edr_fadd1: 851 LODI
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390467

V84 **LODI LUMBER CO** **LUST** **U001604431**
SSW **1025 INDUSTRIAL** **HIST UST** **N/A**
1/4-1/2 **LODI, CA 95240** **HIST CORTESE**
0.313 mi.
1653 ft. **Site 1 of 2 in cluster V**

Actual:
57 ft.

Focus Map:
9

LUST:
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700396
Global Id: T0607700396
Latitude: 38.1254192
Longitude: -121.252358
Status: Completed - Case Closed
Status Date: 12/28/1989
Case Worker: Not reported
RB Case Number: 390508
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1339
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LODI LUMBER CO (Continued) **U001604431**

LUST:
Global Id: T0607700396
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700396
Action Type: Other
Date: 01/02/1985
Action: Leak Reported

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 12/28/1989
Action: Staff Letter - #12/28/1989

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 03/13/1990
Action: Staff Letter - #3/13/1990

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 02/01/1990
Action: Staff Letter - #2/1/1990

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 07/29/1991
Action: Other Report - #7/29/1991

LUST:
Global Id: T0607700396
Status: Completed - Case Closed
Status Date: 12/28/1989

Global Id: T0607700396
Status: Open - Case Begin Date
Status Date: 12/28/1989

HIST UST:
Name: LODI LUMBER COMPANY INC
Address: 1025 INDUSTRIAL WAY
City,State,Zip: LODI, CA 95240
File Number: 0002FEAE
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FEAE.pdf
Region: STATE
Facility ID: 00000066093
Facility Type: Other

LODI LUMBER CO (Continued) **U001604431**

Other Type:	LUMBER YARD
Contact Name:	STANLEY FOSTER
Telephone:	2093344633
Owner Name:	LODI LUMBER COMPANY, INC.
Owner Address:	1025 INDUSTRIAL WAY
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	WEST 2
Year Installed:	1979
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	4
Container Construction Thickness:	X
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	EAST 1
Year Installed:	1979
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:

edr_fname:	LODI LUMBER CO
edr_fadd1:	1025 INDUSTRIAL
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390508

V85 **LODI LUMBER CO** **LUST** **S105036353**
SSW **1025 INDUSTRIAL WAY** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.313 mi.
1653 ft. **Site 2 of 2 in cluster V**

Actual:
57 ft.

Focus Map:
9

LUST REG 5:

Name:	LODI LUMBER CO
Address:	1025 INDUSTRIAL WAY
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390508
Case Type:	Soil only
Substance:	GASOLINE
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

LODI LUMBER CO (Continued) **S105036353**

CORTESE:

Name:	LODI LUMBER CO
Address:	1025 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700396
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	LODI LUMBER CO
Address:	1025 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240
Site ID:	206139
CERS ID:	T0607700396
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

W86 **PINKERTON FOUNDRY** **ENVIROSTOR** **1000590114**
North **32 N CLUFF** **EMI** **N/A**
1/4-1/2 **LODI, CA 95240**
0.321 mi.
1697 ft. **Site 1 of 2 in cluster W**

Actual:
55 ft.

Focus Map:
1

ENVIROSTOR:

Name:	PINKERTON FOUNDRY
Address:	32 N CLUFF AVE
City,State,Zip:	LODI, CA 95240
Facility ID:	39330006

PINKERTON FOUNDRY (Continued) **1000590114**

Status: Refer: Other Agency
Status Date: 11/16/1994
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13472
Longitude: -121.2522
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: American Dutch Foundry
Alias Type: Alternate Name
Alias Name: T0607700223
Alias Type: GeoTracker Global ID
Alias Name: 39330006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1982
Comments: FACILITY IDENTIFIED FROM INDUSTRIAL INDEX.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Name: PINKERTON FOUNDRY
Address: 32 N CLUFF
City,State,Zip: LODI, CA 952400000
Year: 1987
County Code: 39
Air Basin: SJV
Facility ID: 10

PINKERTON FOUNDRY (Continued) **1000590114**

Air District Name:	SJU
SIC Code:	3321
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

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87 **S.J. MOSQUITO ABATEMENT D** **LUST** **S102436196**
WNW **200 BECKMAN** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **HIST CORTESE**
0.339 mi. **CERS**
1791 ft.

Actual:
52 ft.

Focus Map:
1

LUST REG 5:

Name:	S.J. MOSQUITO ABATEMENT DIST
Address:	200 BECKMAN RD N
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390218
Case Type:	Soil only
Substance:	Not reported
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

LUST:

Name:	S.J. MOSQUITO ABATEMENT DIST
Address:	200 BECKMAN RD N
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700152
Global Id:	T0607700152
Latitude:	38.136116
Longitude:	-121.256393
Status:	Completed - Case Closed
Status Date:	07/08/1997
Case Worker:	Not reported
RB Case Number:	390218
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1849
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Benzene
Site History:	Not reported

LUST:

Global Id:	T0607700152
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700152
Action Type: Other
Date: 05/04/1988
Action: Leak Reported

Global Id: T0607700152
Action Type: ENFORCEMENT
Date: 07/08/1997
Action: Staff Letter

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/08/1994
Action: Site Assessment Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 11/22/1993
Action: Interim Remedial Action Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 01/01/1997
Action: Well Installation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 10/14/1992
Action: Monitoring Report - Quarterly

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/25/1997
Action: Soil Vapor Intrusion Investigation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 06/09/1995
Action: Other Report / Document

Global Id: T0607700152
Action Type: RESPONSE
Date: 01/30/1995
Action: Soil and Water Investigation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/24/1993
Action: Monitoring Report - Quarterly

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

Global Id: T0607700152
Action Type: RESPONSE
Date: 04/07/1998
Action: Interim Remedial Action Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 04/01/1992
Action: Well Installation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 01/13/1992
Action: Monitoring Report - Quarterly

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/26/1994
Action: Soil and Water Investigation Report

Global Id: T0607700152
Action Type: Other
Date: 08/13/1986
Action: Leak Discovery

LUST:
Global Id: T0607700152
Status: Open - Case Begin Date
Status Date: 08/13/1986

Global Id: T0607700152
Status: Completed - Case Closed
Status Date: 07/08/1997

CORTESE:
Name: S.J. MOSQUITO ABATEMENT DIST
Address: 200 BECKMAN RD N
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700152
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: S.J. MOSQUITO ABATEMENT D
edr_fadd1: 200 BECKMAN
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390218

CERS:
Name: S.J. MOSQUITO ABATEMENT DIST
Address: 200 BECKMAN RD N
City,State,Zip: LODI, CA 95240
Site ID: 205216
CERS ID: T0607700152
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

W88 **AMERICAN DUTCH FOUNDRY** **LUST** **S101302488**
North **42 CLUFF** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **HIST CORTESE**
0.344 mi. **CERS**
1815 ft. **Site 2 of 2 in cluster W**

Actual:
55 ft.

Focus Map:
1

LUST REG 5:
Name: AMERICAN DUTCH FOUNDRY
Address: 42 CLUFF AVE N
City: LODI
Region: 5
Status: Case Closed
Case Number: 390303
Case Type: Soil only
Substance: Not reported
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:
Name: AMERICAN DUTCH FOUNDRY
Address: 42 CLUFF AVE N

AMERICAN DUTCH FOUNDRY (Continued) **S101302488**

City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700223
Global Id: T0607700223
Latitude: 38.135229
Longitude: -121.251909
Status: Completed - Case Closed
Status Date: 09/19/2002
Case Worker: Not reported
RB Case Number: 390303
Local Agency: Not reported
File Location: Not reported
Local Case Number: 0001435
Potential Media Affect: Soil
Potential Contaminants of Concern: Lead
Site History: Not reported

LUST:
Global Id: T0607700223
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700223
Action Type: Other
Date: 11/15/1988
Action: Leak Reported

Global Id: T0607700223
Action Type: Other
Date: 11/15/1988
Action: Leak Discovery

LUST:
Global Id: T0607700223
Status: Open - Case Begin Date
Status Date: 11/15/1988

Global Id: T0607700223
Status: Completed - Case Closed
Status Date: 09/19/2002

CORTESE:
Name: AMERICAN DUTCH FOUNDRY
Address: 42 CLUFF AVE N
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700223

AMERICAN DUTCH FOUNDRY (Continued) **S101302488**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	AMERICAN DUTCH FOUNDRY
edr_fadd1:	42 CLUFF
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390303

CERS:

Name:	AMERICAN DUTCH FOUNDRY
Address:	42 CLUFF AVE N
City,State,Zip:	LODI, CA 95240
Site ID:	220196
CERS ID:	T0607700223
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

89
North
1/4-1/2
0.370 mi.
1956 ft.

PART CONTAINER CORP
1400 VICTOR
LODI, CA 95240

LUST **S103629795**
CHMIRS **N/A**
Cortese
HIST CORTESE
CERS

Actual:
61 ft.

Focus Map:
2

LUST REG 5:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
Region: 5
Status: Case Closed
Case Number: 390853
Case Type: Soil only
Substance: DIESEL
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700681
Global Id: T0607700681
Latitude: 38.1376388
Longitude: -121.250197
Status: Completed - Case Closed
Status Date: 03/27/1995
Case Worker: Not reported
RB Case Number: 390853
Local Agency: Not reported
File Location: Not reported
Local Case Number: 231951
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607700681
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700681
Action Type: Other
Date: 10/04/1994
Action: Leak Reported

Global Id: T0607700681
Action Type: Other

PART CONTAINER CORP (Continued) **S103629795**

Date: 10/04/1994
Action: Leak Discovery

LUST:
Global Id: T0607700681
Status: Open - Case Begin Date
Status Date: 10/04/1994

Global Id: T0607700681
Status: Open - Site Assessment
Status Date: 10/04/1994

Global Id: T0607700681
Status: Completed - Case Closed
Status Date: 03/27/1995

CHMIRS:
Name: Not reported
Address: 1400 VICTOR RD
City,State,Zip: LODI, CA 95240
OES Incident Number: 8-1419
OES notification: 03/23/1998
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported

PART CONTAINER CORP (Continued) **S103629795**

Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Dart Container
Incident Date:	3/23/199812:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Hydrualic oil
Gallons:	200
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Pipe broke and allowed substance to flow on to floor of building. Spill has been cleaned up.

CORTESE:

Name:	PART CONTAINER CORP
Address:	1400 VICTOR RD
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700681
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

PART CONTAINER CORP (Continued) **S103629795**

File Name: Active Open

HIST CORTESE:
edr_fname: PART CONTAINER CORP
edr_fadd1: 1400 VICTOR
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390853

CERS:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City,State,Zip: LODI, CA 95240
Site ID: 197911
CERS ID: T0607700681
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

X90 **KISHIDA PROPERTY** **CPS-SLIC** **S109277158**
NW **860 E. PINE STREET** **CERS** **N/A**
1/4-1/2 **LODI, CA 95241**
0.371 mi.
1957 ft. **Site 1 of 2 in cluster X**

Actual:
52 ft.

Focus Map:
1

CPS-SLIC:
Name: KISHIDA PROPERTY
Address: 860 E. PINE STREET
City,State,Zip: LODI, CA 95241
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 09/09/2009
Global Id: T10000000285
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number: Not reported
Latitude: 38.134014
Longitude: -121.255954
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Other Petroleum
Site History: On 18 January 2008, a site inspection revealed stained areas on the

KISHIDA PROPERTY (Continued) **S109277158**

ground as well as abandoned drums. The hazardous waste containers were properly disposed, but stained areas remain on the ground surface. Sampling of soils and groundwater have been completed as of December 2008 and show no detectable concentrations of TPH, VOCs, and Cr, As, and Pb. Confirmatory analysis of additional metals verfied no detections of metals above regional background concentrations.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	KISHIDA PROPERTY
Address:	860 E. PINE STREET
City,State,Zip:	LODI, CA 95241
Site ID:	240188
CERS ID:	T10000000285
CERS Description:	Cleanup Program Site

X91 **CAL TRANS LODI MAINTENANCE** **LUST** **S104403431**
NW **845 PINE ST E** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.386 mi.
2036 ft. **Site 2 of 2 in cluster X**

Actual:
52 ft.

Focus Map:
1

LUST REG 5:

Name:	CAL TRANS LODI MAINTENANCE
Address:	845 PINE ST E
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390470
Case Type:	Drinking Water Aquifer affected
Substance:	HYDROCARBONS
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	0

LUST:

Name:	CAL TRANS LODI MAINTENANCE
Address:	845 PINE ST E
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700365
Global Id:	T0607700365
Latitude:	38.134644
Longitude:	-121.256378
Status:	Completed - Case Closed
Status Date:	06/26/2002
Case Worker:	Not reported
RB Case Number:	390470
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1363
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

CAL TRANS LODI MAINTENANCE (Continued) **S104403431**

LUST:
Global Id: T0607700365
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700365
Action Type: ENFORCEMENT
Date: 06/12/2002
Action: Closure/No Further Action Letter

Global Id: T0607700365
Action Type: Other
Date: 02/06/1990
Action: Leak Reported

Global Id: T0607700365
Action Type: Other
Date: 01/29/1990
Action: Leak Discovery

LUST:
Global Id: T0607700365
Status: Open - Case Begin Date
Status Date: 01/29/1990

Global Id: T0607700365
Status: Open - Site Assessment
Status Date: 01/29/1990

Global Id: T0607700365
Status: Completed - Case Closed
Status Date: 06/26/2002

CORTESE:
Name: CAL TRANS LODI MAINTENANCE
Address: 845 PINE ST E
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700365
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported

CAL TRANS LODI MAINTENANCE (Continued) **S104403431**

Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	CAL TRANS LODI MAINTENANCE
Address:	845 PINE ST E
City,State,Zip:	LODI, CA 95240
Site ID:	220291
CERS ID:	T0607700365
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

92
South
1/4-1/2
0.403 mi.
2130 ft.

LUSD TRANSPORTATION DEPT
820 CLUFF
LODI, CA 95240

LUST **S102432807**
Cortese **N/A**
HIST CORTESE
CERS

Actual:
57 ft.

Focus Map:
9

LUST REG 5:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390584
Case Type:	Soil only
Substance:	GASOLINE
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

LUST:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site

LUSD TRANSPORTATION DEPT (Continued) **S102432807**

Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700460
Global Id:	T0607700460
Latitude:	38.124108
Longitude:	-121.25237
Status:	Completed - Case Closed
Status Date:	05/09/1994
Case Worker:	Not reported
RB Case Number:	390584
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	0001436
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700460
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700460
Action Type:	Other
Date:	04/03/1991
Action:	Leak Reported
Global Id:	T0607700460
Action Type:	ENFORCEMENT
Date:	04/03/1991
Action:	Unauthorized Release Form
Global Id:	T0607700460
Action Type:	ENFORCEMENT
Date:	04/03/1991
Action:	Unauthorized Release Form
Global Id:	T0607700460
Action Type:	Other
Date:	08/19/1986
Action:	Leak Discovery

LUST:

Global Id:	T0607700460
Status:	Open - Case Begin Date
Status Date:	08/19/1986
Global Id:	T0607700460
Status:	Open - Site Assessment
Status Date:	08/19/1986
Global Id:	T0607700460
Status:	Completed - Case Closed

LUSD TRANSPORTATION DEPT (Continued) **S102432807**

Status Date: 05/09/1994

CORTESE:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700460
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	LUSD TRANSPORTATION DEPT
edr_fadd1:	820 CLUFF
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390584

CERS:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City,State,Zip:	LODI, CA 95240
Site ID:	231576
CERS ID:	T0607700460
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

93
NNW
1/4-1/2
0.468 mi.
2469 ft.

DON KELLER TRUCKING
940 VICTOR
LODI, CA 95240

LUST
Cortese
HIST CORTESE
CERS

S104403561
N/A

Actual:
52 ft.

Focus Map:
1

LUST REG 5:

Name:	DON KELLER TRUCKING
Address:	940 VICTOR RD
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390909
Case Type:	Soil only
Substance:	DIESEL
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

LUST:

Name:	DON KELLER TRUCKING
Address:	940 VICTOR RD
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700731
Global Id:	T0607700731
Latitude:	38.136372
Longitude:	-121.25385
Status:	Completed - Case Closed
Status Date:	02/12/1999
Case Worker:	Not reported
RB Case Number:	390909
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	0001379
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607700731
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700731
Action Type:	Other
Date:	03/19/1996
Action:	Leak Reported
Global Id:	T0607700731
Action Type:	Other

DON KELLER TRUCKING (Continued) **S104403561**

Date: 01/03/1996
Action: Leak Discovery

LUST:
Global Id: T0607700731
Status: Open - Case Begin Date
Status Date: 01/03/1996

Global Id: T0607700731
Status: Completed - Case Closed
Status Date: 02/12/1999

CORTESE:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700731
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: DON KELLER TRUCKING
edr_fadd1: 940 VICTOR
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390909

CERS:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City,State,Zip: LODI, CA 95240
Site ID: 230203
CERS ID: T0607700731
CERS Description: Leaking Underground Storage Tank Cleanup Site

DON KELLER TRUCKING (Continued) **S104403561**

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
- Entity Title: Not reported
- Affiliation Address: 11020 SUN CENTER DRIVE #200
- Affiliation City: RANCHO CORDOVA
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

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94 **TERESI TRUCKING LLC** **RCRA-LQG** **1000222047**
NNW **900 1/2 VICTOR ROAD** **LUST** **CAD043274380**
1/4-1/2 **LODI, CA 95240** **SWEEPS UST**
0.485 mi. **FINDS**
2560 ft. **ECHO**
Cortese
Actual: **HAZNET**
52 ft. **CERS**
HWTS
Focus Map:
1

RCRA-LQG:
- Date Form Received by Agency: 19851004
- Handler Name: TERESI TRUCKING INC
- Handler Address: 900 1/2 VICTOR RD
- Handler City,State,Zip: LODI, CA 95241
- EPA ID: CAD043274380
- Contact Name: ENVIRONMENTAL MANAGER
- Contact Address: 900 1/2 VICTOR RD
- Contact City,State,Zip: LODI, CA 94521
- Contact Telephone: 209-368-2472
- Contact Fax: Not reported
- Contact Email: Not reported
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Other
- Federal Waste Generator Description: Large Quantity Generator
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Handler Activities
- State District Owner: CA
- State District: 1
- Mailing Address: PO BOX 1270
- Mailing City,State,Zip: LODI, CA 95241
- Owner Name: TERESI TRUCKING INC
- Owner Type: Private
- Operator Name: Not reported
- Operator Type: Not reported
- Short-Term Generator Activity: No
- Importer Activity: No
- Mixed Waste Generator: No
- Transporter Activity: No
- Transfer Facility Activity: No
- Recycler Activity with Storage: No
- Small Quantity On-Site Burner Exemption: No

TERESI TRUCKING LLC (Continued) **1000222047**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: TERESI TRUCKING INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED

TERESI TRUCKING LLC (Continued) **1000222047**

Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19851004
Handler Name: TERESI TRUCKING INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST REG 5:
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390903
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 3

LUST:
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City,State,Zip: LODI, CA 95241
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700727
Global Id: T0607700727
Latitude: 38.1374668
Longitude: -121.2561231

TERESI TRUCKING LLC (Continued) **1000222047**

Status:	Completed - Case Closed
Status Date:	04/13/2001
Case Worker:	Not reported
RB Case Number:	390903
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1747
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700727
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	12/12/1995
Action:	Staff Letter - #12/12/1995

Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	03/05/1996
Action:	Other Report - #3/5/1996

Global Id:	T0607700727
Action Type:	Other
Date:	12/05/1995
Action:	Leak Reported

Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	09/15/2000
Action:	Closure/No Further Action Letter - #9/15/2000

Global Id:	T0607700727
Action Type:	RESPONSE
Date:	01/24/2000
Action:	Monitoring Report - Quarterly

Global Id:	T0607700727
Action Type:	RESPONSE
Date:	07/06/1999
Action:	Correspondence

Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	12/05/1995
Action:	Unauthorized Release Form - #12/5/1995

TERESI TRUCKING LLC (Continued) **1000222047**

Global Id: T0607700727
Action Type: RESPONSE
Date: 11/12/1999
Action: Monitoring Report - Quarterly

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 09/12/2000
Action: Other Report - #9/12/2000

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 04/10/1998
Action: Staff Letter - #4/10/1998

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 01/24/2000
Action: Other Report - #1/24/2000

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 02/21/1996
Action: Staff Letter - #2/21/1996

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 05/24/2000
Action: Other Report - #5/24/2000

Global Id: T0607700727
Action Type: Other
Date: 12/01/1995
Action: Leak Discovery

LUST:
Global Id: T0607700727
Status: Open - Case Begin Date
Status Date: 12/01/1995

Global Id: T0607700727
Status: Open - Site Assessment
Status Date: 12/01/1995

Global Id: T0607700727
Status: Completed - Case Closed
Status Date: 04/13/2001

SWEEPS UST:
Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1

TERESI TRUCKING LLC (Continued) **1000222047**

Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 01
SWRCB Tank Id: 39-000-001747-000001
Tank Status: A
Capacity: 12000
Active Date: 01-18-89
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 4

Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 02
SWRCB Tank Id: 39-000-001747-000002
Tank Status: A
Capacity: 10000
Active Date: 01-18-89
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 03
SWRCB Tank Id: 39-000-001747-000003
Tank Status: A
Capacity: 5000
Active Date: 01-18-89
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI

TERESI TRUCKING LLC (Continued) **1000222047**

Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 04
SWRCB Tank Id: 39-000-001747-000004
Tank Status: A
Capacity: 1
Active Date: 07-05-89
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

FINDS:
Registry ID: 110008261692

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000222047
Registry ID: 110008261692
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008261692
Name: TERESI TRUCKING LLC
Address: 900 1/2 VICTOR ROAD
City,State,Zip: LODI, CA 95240

CORTESE:
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City,State,Zip: LODI, CA 95241
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700727
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HAZNET:

Name:	TERESI TRUCKING LLC
Address:	900 1/2 E VICTOR RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 952411270
Contact:	MIKE GEISZLER
Telephone:	2093682472
Mailing Name:	Not reported
Mailing Address:	PO BOX 1270
Year:	2019
Gepaid:	CAD043274380
TSD EPA ID:	CAD008252405
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.03600
Year:	2019
Gepaid:	CAD043274380
TSD EPA ID:	CAD008252405
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.10000
Year:	2019
Gepaid:	CAD043274380
TSD EPA ID:	CAT080014079
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02750
Year:	2018
Gepaid:	CAD043274380
TSD EPA ID:	CAT080014079
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00500

TERESI TRUCKING LLC (Continued) **1000222047**

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.01800

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.15000

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD044003556
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.22500

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD044003556
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.054

Click this hyperlink while viewing on your computer to access
45 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1998
Gen EPA ID: CAD043274380

Shipment Date: 19981229
Creation Date: 3/15/1999 0:00:00
Receipt Date: 19990105

TERESI TRUCKING LLC (Continued) **1000222047**

Manifest ID:	98454125
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAD043274380
Shipment Date:	20090706
Creation Date:	8/12/2009 18:30:28
Receipt Date:	20090710
Manifest ID:	005486693JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090706
Creation Date:	8/20/2009 18:30:09
Receipt Date:	20090715
Manifest ID:	005486694JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAT000624247

TERESI TRUCKING LLC (Continued) **1000222047**

Trans 2 Name:	MP ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080014079
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.068
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090623
Creation Date:	1/8/2010 18:30:16
Receipt Date:	20090626
Manifest ID:	005769443JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0648
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090623
Creation Date:	1/8/2010 18:30:16
Receipt Date:	20090626
Manifest ID:	005769443JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

TERESI TRUCKING LLC (Continued) **1000222047**

Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: F003
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2003
Gen EPA ID: CAD043274380

Shipment Date: 20031204
Creation Date: 7/30/2004 18:31:14
Receipt Date: 20031205
Manifest ID: 22897865
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: CAD008252405
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.036
Waste Quantity: 10
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20030910
Creation Date: 8/4/2004 18:30:55
Receipt Date: 20030912
Manifest ID: 22895981
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: CAD008252405
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D001
Meth Code: H01 - Transfer Station
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAD043274380
Shipment Date:	20140812
Creation Date:	2/9/2015 22:15:16
Receipt Date:	20140814
Manifest ID:	013236470JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140731
Creation Date:	9/13/2014 22:15:20
Receipt Date:	20140731
Manifest ID:	012460342JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 5: Not reported

Additional Info:
Year: 2004
Gen EPA ID: CAD043274380

Shipment Date: 20041216
Creation Date: 3/13/2007 18:30:13
Receipt Date: 20041220
Manifest ID: 23862772
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: CAD008252405
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D001
Meth Code: H01 - Transfer Station
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20041216
Creation Date: 3/13/2007 18:30:13
Receipt Date: 20041220
Manifest ID: 23862772
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: CAD008252405
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.0792
Waste Quantity: 22
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2010

TERESI TRUCKING LLC (Continued) **1000222047**

Gen EPA ID:	CAD043274380
Shipment Date:	20100325
Creation Date:	12/3/2010 18:30:36
Receipt Date:	20100326
Manifest ID:	006489317JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100325
Creation Date:	12/3/2010 18:30:36
Receipt Date:	20100326
Manifest ID:	006489317JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0864
Waste Quantity:	24
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD043274380
Shipment Date:	19970828
Creation Date:	7/23/1998 0:00:00

TERESI TRUCKING LLC (Continued) **1000222047**

Receipt Date:	19970903
Manifest ID:	96628654
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAD043274380
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES

TERESI TRUCKING LLC (Continued) **1000222047**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150807
Creation Date:	10/5/2015 22:15:27
Receipt Date:	20150807
Manifest ID:	014723951JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005

TERESI TRUCKING LLC (Continued) **1000222047**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150203
Creation Date:	3/30/2015 22:15:06
Receipt Date:	20150203
Manifest ID:	013679742JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAD043274380
Shipment Date:	20171019
Creation Date:	10/6/2018 18:30:15
Receipt Date:	20171031
Manifest ID:	017004826JJK
Trans EPA ID:	CAR000245050
Trans Name:	ECOTRANS RECYCLING
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171019
Creation Date:	10/6/2018 18:30:15
Receipt Date:	20171031
Manifest ID:	017004826JJK
Trans EPA ID:	CAR000245050
Trans Name:	ECOTRANS RECYCLING
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170801

TERESI TRUCKING LLC (Continued) **1000222047**

Creation Date:	6/13/2018 18:30:55
Receipt Date:	20170804
Manifest ID:	017145702JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170209
Creation Date:	4/5/2017 18:30:28
Receipt Date:	20170214
Manifest ID:	016645389JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170118
Creation Date:	5/10/2018 18:30:29
Receipt Date:	20170119
Manifest ID:	016238949JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.054
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170118
Creation Date:	5/10/2018 18:30:29
Receipt Date:	20170119
Manifest ID:	016238949JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAD043274380

Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150807
Creation Date:	10/5/2015 22:15:27
Receipt Date:	20150807
Manifest ID:	014723951JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150203
Creation Date:	3/30/2015 22:15:06
Receipt Date:	20150203

TERESI TRUCKING LLC (Continued) **1000222047**

Manifest ID:	013679742JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD043274380
Shipment Date:	19941005
Creation Date:	10/18/1995 0:00:00
Receipt Date:	19941010
Manifest ID:	93591319
Trans EPA ID:	ILD099202681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940427
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940428
Manifest ID:	92881076
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAD043274380
Shipment Date:	20110928
Creation Date:	3/22/2012 20:30:33
Receipt Date:	20111006
Manifest ID:	008713115JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110928
Creation Date:	3/22/2012 20:30:33
Receipt Date:	20111006
Manifest ID:	008713115JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0576
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD043274380
Shipment Date:	20021220
Creation Date:	4/10/2003 10:20:47
Receipt Date:	20021220
Manifest ID:	22064246
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021220
Creation Date:	3/29/2003 18:31:12
Receipt Date:	20021223
Manifest ID:	21853606
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.162

TERESI TRUCKING LLC (Continued) **1000222047**

Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAD043274380
Shipment Date:	20130306
Creation Date:	7/17/2013 22:15:13
Receipt Date:	20130307
Manifest ID:	010726424JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130306
Creation Date:	7/17/2013 22:15:13
Receipt Date:	20130307
Manifest ID:	010726424JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0504
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD043274380
Shipment Date:	20080710
Creation Date:	12/8/2008 18:30:18
Receipt Date:	20080714
Manifest ID:	003935200JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15846
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080710
Creation Date:	12/8/2008 18:30:18
Receipt Date:	20080714
Manifest ID:	003935200JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0396
Waste Quantity:	11
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Info:

Year:	1996
Gen EPA ID:	CAD043274380
Shipment Date:	19961217
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961219
Manifest ID:	95297499
Trans EPA ID:	CAT000624247
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960606
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960610
Manifest ID:	95776938
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083186728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	7.2975
Waste Quantity:	1750
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD043274380

TERESI TRUCKING LLC (Continued) **1000222047**

Shipment Date:	20061214
Creation Date:	9/24/2007 18:30:06
Receipt Date:	20061215
Manifest ID:	000579800JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1296
Waste Quantity:	36
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061214
Creation Date:	9/24/2007 18:30:06
Receipt Date:	20061215
Manifest ID:	000579800JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD043274380

Shipment Date:	19951221
Creation Date:	9/18/1996 0:00:00
Receipt Date:	19951229
Manifest ID:	95151984

TERESI TRUCKING LLC (Continued) **1000222047**

Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201
Manifest ID:	95131964
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5637
Waste Quantity:	375
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD043274380

Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405

TERESI TRUCKING LLC (Continued) **1000222047**

Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0468
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100

TERESI TRUCKING LLC (Continued) **1000222047**

Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070711
Creation Date:	2/29/2008 18:30:06
Receipt Date:	20070713
Manifest ID:	001657773JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.054
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070711
Creation Date:	2/29/2008 18:30:06
Receipt Date:	20070713
Manifest ID:	001657773JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070115

TERESI TRUCKING LLC (Continued) **1000222047**

Creation Date:	8/9/2007 18:30:32
Receipt Date:	20070116
Manifest ID:	001700521JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.18845
Waste Quantity:	285
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	TERESI TRUCKING
Address:	900-1/2 VICTOR RD E
City,State,Zip:	LODI, CA 95241
Site ID:	195538
CERS ID:	T0607700727
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

HWTS:

Name:	TERESI TRUCKING LLC
Address:	900 1/2 E VICTOR RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAD043274380
Inactive Date:	Not reported
Create Date:	04/10/1987
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 1270
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952411270

TERESI TRUCKING LLC (Continued) **1000222047**

Owner Name:	TERESI TRUCKING LLC
Owner Address:	PO BOX 1270
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952411270
Contact Name:	MIKE GEISZLER
Contact Address:	PO BOX 1270
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95241
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	38.137516
Longitude:	-121.256157

NAICS:

EPA ID:	CAD043274380
Create Date:	2002-03-14 16:36:26.000
NAICS Code:	4841
NAICS Description:	General Freight Trucking
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2014-12-16 05:37:50.997
NAICS Code:	484121
NAICS Description:	General Freight Trucking, Long-Distance, Truckload
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2014-12-16 05:37:50.997
NAICS Code:	484122
NAICS Description:	General Freight Trucking, Long-Distance, Less Than Truckload
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID: CAD043274380

TERESI TRUCKING LLC (Continued) **1000222047**

Create Date:	2014-12-16 05:37:50.997
NAICS Code:	48421
NAICS Description:	Used Household and Office Goods Moving
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2003-10-23 15:27:19.000
NAICS Code:	48423
NAICS Description:	Specialized Freight (except Used Goods) Trucking, Long-Distance
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

95
North
1/2-1
0.520 mi.
2746 ft.

LODI DOOR INC
1220 VICTOR RD
LODI, CA 95240

RCRA-SQG **1000244832**
ENVIROSTOR **CAD009174673**
FINDS
ECHO

Actual:
57 ft.

Focus Map:
2

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	LODI DOOR INC	
Handler Address:		1220 VICTOR RD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD009174673
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		1
Mailing Address:		PO BOX 256
Mailing City,State,Zip:		LODI, CA 95240

LODI DOOR INC (Continued) **1000244832**

Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20020627
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		Not reported

LODI DOOR INC (Continued) **1000244832**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DAN AND LARRY ANDERSON
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: LODI DOOR INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800819
Handler Name: LODI DOOR INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

LODI DOOR INC (Continued) **1000244832**

List of NAICS Codes and Descriptions:
NAICS Code: 23599
NAICS Description: ALL OTHER SPECIAL TRADE CONTRACTORS

NAICS Code: 332321
NAICS Description: METAL WINDOW AND DOOR MANUFACTURING

NAICS Code: 44419
NAICS Description: OTHER BUILDING MATERIAL DEALERS

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850419
Actual Return to Compliance Date: 19870814
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19850419
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19850419
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported

LODI DOOR INC (Continued) **1000244832**

Actual Return to Compliance Date:	19870814
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ENVIROSTOR:

Name:	LODI DOOR & MFG CO
Address:	1220 E VICTOR RD
City,State,Zip:	LODI, CA 95240
Facility ID:	39340006
Status:	Refer: RCRA
Status Date:	05/02/1988
Site Code:	100092
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Sacramento
Assembly:	09
Senate:	05
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.13722
Longitude:	-121.2511
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Cyanide (free
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	LODI DOOR & METAL CO
Alias Type:	Alternate Name
Alias Name:	OVERHEAD DOOR, LODI
Alias Type:	Alternate Name
Alias Name:	CAD009174673
Alias Type:	HWTS Identification Code
Alias Name:	100092
Alias Type:	Project Code (Site Code)
Alias Name:	39340006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/30/1987
Comments:	SITE SCREENING DONE. SITE HAS MANAGER FOR DEPARTMENT OF HEALTH SERVICES ACTIVITIES.

LODI DOOR INC (Continued) **1000244832**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1982
Comments: FACILITY IDENTIFIED FROM PERMIT INTERIM STATUS DOCUMENT.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:
Registry ID: 110002635872

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000244832
Registry ID: 110002635872
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002635872
Name: LODI DOOR INC
Address: 1220 VICTOR RD
City,State,Zip: LODI, CA 95240

---

96 **ARCO STATION #760** **Notify 65** **S100233618**
West **225 SOUTH CHEROKEE** **N/A**
1/2-1 **LODI, CA 93420**
0.528 mi.
2787 ft.

Actual:
52 ft.

Focus Map:
1

NOTIFY 65:
Name: ARCO STATION #760
Address: 225 SOUTH CHEROKEE
City,State,Zip: LODI, CA 93420
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported

ARCO STATION #760 (Continued) **S100233618**

Status: Not reported

97
NNW
1/2-1
0.573 mi.
3023 ft.

OVERHEAD/LODI DOOR COMPANY
LODI, CA

WMUDS/SWAT **S100676329**
Toxic Pits **N/A**

Actual:
52 ft.

Focus Map:
1

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	CNSOIL
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	DALLAS CORPORATION
Agency Department:	Not reported
Agency Address:	1220 E VICTOR RD
Agency City,St,Zip:	LODI CA 95240
Agency Contact:	CHARLES L. POOLE
Agency Telephone:	2142336611
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	5S
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	True
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported

OVERHEAD/LODI DOOR COMPANY (Continued) **S100676329**

Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	JEM
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	H
Self-Monitoring Rept. Frequency:	No Reporting Requirements
Waste Discharge System ID:	5B392015N01
Solid Waste Information ID:	Not reported

TOXIC PITS:

Region:	05S
Task #:	85114
Owner:	DALLAS CORPORATION
1/2 Mi Limit:	Y
Num. of Pits:	1
Cease Discharge Due:	/ /
Cease Discharge Complete:	07/01/87
Closure Due:	06/30/90
Closure Completed:	**12/31/90**
Status:	CLOSED

Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: / /

98
West
1/2-1
0.996 mi.
5260 ft.

ARCO STATION #2076 **Notify 65** **S100233596**
800 EAST KETTLEMAN LANE **N/A**
LODI, CA 93420

Actual:
58 ft.

Focus Map:
9

NOTIFY 65:

Name:	ARCO STATION #2076
Address:	800 EAST KETTLEMAN LANE
City,State,Zip:	LODI, CA 93420
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

Count: 90 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLEMENTS	U001604435	LODI NUT COMPANY INC	ATKINS ROAD	95240	HIST UST
LOCKEFORD	S107540909		TULLY RD, 1 MILE S OF HIGHWAY 88	95237	CDL
LOCKEFORD	S106929764	N W DRURY	15850 N TULLY RD	95237	SWEEPS UST
LOCKEFORD	S106391041		WITHIN THE LOCKEFORD SUBSTATION KETTLEMAN LANE AT HWY 88		CHMIRS
LOCKEFORD	S105663621		SERGEANT RD. AND TULLY		CHMIRS
LOCKEFORD	S106400570		TULLY RD		CHMIRS
LOCKEFORD	S108402088		15760 TULLY ROAD		CHMIRS
LOCKEFORD	1024788165	PACIFIC GAS & ELECTRIC LOCKEFORD SUBSTATION	KETTLEMAN LN 1/2 MI E/O HWY 88	95237	RCRA NonGen / NLR
LOCKEFORD	1025863938	GARY HAMMOND	19603 N JACK TONE RD	95237	RCRA NonGen / NLR
LOCKEFORD	1024657093	PACIFIC GAS & ELECTRIC LOCKEFORD SUBSTATION	KETTLEMAN LN 1/2 MI E/O HWY 88	95237	FINDS, ECHO
LOCKEFORD	1016874293	LOCKEFORD WASTEWATER TREATMENT PLANT	17725 N TULLY RD	95237	FINDS
LOCKEFORD	1023238965	LOCKEFORD CSD WWTP	17725 TULLY	95237	FINDS
LOCKEFORD	S112918840	PACIFIC GAS & ELECTRIC	12861 E KETTLEMAN LN	95237	HAZNET, HWTS
LOCKEFORD	S113038585	PACIFIC GAS & ELECTRIC LOCKEFORD SUBSTATION	KETTLEMAN LN 1/2 MI E/O HWY 88	95237	HAZNET, HWTS
LOCKEFORD	S102006650	LOCKEFORD WWT & DISPOSAL	17725 N TULLY RD	95237	WDS
LOCKEFORD	S121690270	WASTEWATER TREATMENT EXPANSION PROJECT	APN 053 070 03 17310 N TULLY RD	95237	CIWQS
LOCKEFORD	S123526689	KETTLEMAN LANE	ATKINS AND KETTLEMAN LANE, LOD	95237	CERS
LODI	1000250927	PACIFIC BELL	KENNISON ROAD & HIGHWAY 88	95240	RCRA-SQG
LODI	2010960346		KETTLEMAN LANE		ERNS
LODI	2019245582		5950 EAST KETTLEMAN LN		ERNS
LODI	S106230433	UNION PACIFIC RAILROAD COMPANY **	HARNEY LN, 1/2 MILE TO THE NORTH		CPS-SLIC
LODI	S106230408	LODI PCE INVESTIGATION	CHURCH ST, LODI AVE, MOKELUMNE RIVER, KETTLEMAN LN		CPS-SLIC
LODI	S107540140		ON W SIDE OF HIGHWAY 88, .3 MI N OF HARNEY RD	95240	CDL
LODI	S107530833		21195 HIGHWAY 88	95240	CDL
LODI	S107539687		ON ALPINE ROAD, 300 FEET SOUTH OF KETTLEMAN	95240	CDL
LODI	S107540138		ON WELLS LN, 2 MI S OF KETTLEMAN LN	95240	CDL
LODI	S107537116		9300 BLOCK OF EAST KETTLEMAN LN	95240	CDL
LODI	S118946824		TREATHAWAY RD, 350 FEET NORTH OF KETTLEMAN LN	95240	CDL
LODI	U001604406	L J S ENTERPRISE INC	800 KETTLEMAN LANE	95240	HIST UST
LODI	S119000241		LIVE OAK ROAD 6/10 OF A MILE WEST OF HIGHWAY 88	95240	CHMIRS
LODI	S111755070		LOCUST TREE ST 200 FEET NORTH OF HARNEY LN	95240	CHMIRS
LODI	S105644759		ALPINE RD & HWY12		CHMIRS
LODI	S105636376		JACK TONE RD		CHMIRS
LODI	S119000440		TULLY ROAD AND HARNEY LANE	95240	CHMIRS
LODI	S117743758		KETTLEMAN LANE ON-RAMP TO NB 99	95240	CHMIRS
LODI	S116779107		CURRY AVE NO ARMSTRONG RD	95240	CHMIRS
LODI	S118738106		NORTH CURRY AVE, 50 YARDS SOUTH OF SERGEANT ROAD.	95240	CHMIRS
LODI	S125738796		NORTHBOUND HIGHWAY 99, AT KETTLEMAN EXIT	95240	CHMIRS
LODI	S112828362		REALTY RD. JWO ALPINE RD.	95240	CHMIRS
LODI	S112828378		CURRY RD JNO REALTY RD	95240	CHMIRS

Count: 90 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LODI	S105656046		SB SR99 SOUTH OF KETTLEMAN LANE		CHMIRS
LODI	S127596779		S CHEROKEE LN & E KETTLEMAN LN		CHMIRS
LODI	S109041635		KETTLEMAN LANE AT MM 72.9 FRESNO SUBDIVISION		CHMIRS
LODI	S118999922		BECKMAN RD & S. KETTLEMAN LN		CHMIRS
LODI	S110982521		S/B HIGHWAY 99 AT KETTLEMAN LANE EXIT		CHMIRS
LODI	S110982765		CURRY ROAD BETWEEN HARNEY LANE AND KETTLEMAN ROAD		CHMIRS
LODI	S127597079		STATE ROUTE 88 AND JUST WEST OF KETTLEMAN LANE		CHMIRS
LODI	S109035287		1/2 MILE NORTH OF KETTLEMAN LANE, WEST SIDE OF TECKLENBURG RD.		CHMIRS
LODI	S110982135		FRESNO SUBDIVISION MP 72.75, KETTLEMAN ROAD		CHMIRS
LODI	S120832470		ON SERGEANT RD, WEST OF CURRY AVE ABOUT 200 YARDS		CHMIRS
LODI	S105658386		MP/103.3 SAN JOAQUIN SUBDIVISION AT PINE ST		CHMIRS
LODI	S111754576		GUILD AT LODI AVE		CHMIRS
LODI	S127087116		171 S GUILD AVE STE A & B		CHMIRS
LODI	1026714920	FRY FAMILY TRUST	610 KETTLEMAN LN.	95240	RCRA NonGen / NLR
LODI	1024837239	DEPARTMENT OF INTERIOR/US FISH AND WILDLIFE SERVICE	850 S GUILD AVE STE 105 & 106	95240	RCRA NonGen / NLR
LODI	1016265687	PACIFIC BELL	KENNISON ROAD & HIGHWAY 88	95240	FINDS, ECHO
LODI	1027000691	HANSEN PROPERTY	12312 NORTH TULLY ROAD	95240	FINDS
LODI	1023361795	HULLER FACILITY	ATKINS	95240	FINDS
LODI	1026999198	FRY FAMILY TRUST	610 KETTLEMAN LN.	95240	FINDS
LODI	1026998292	ASTAR SMOG AND DIAGNOSTICS	420 W KETTLEMAN LN STE B	95240	FINDS
LODI	1004443666	GUILD WINERIES & DISTILLERIES	17888 N GUILD AVE	95240	FINDS, ECHO
LODI	1024692021	DEPARTMENT OF INTERIOR/US FISH AND WILDLIFE SERVICE	850 S GUILD AVE STE 105 & 106	95240	FINDS, ECHO
LODI	1026749120	FRY FAMILY TRUST	610 KETTLEMAN LN.	95240	ECHO
LODI	S127522799	PAUL'S CLEANERS	1040 KETTLEMAN LANE LN #3	0	EMI
LODI	S121024159	WATER METER PROGRAM PHASE 7 INSTALLATION AND REPLACEMENT	KETTLEMAN LANE	95240	NPDES
LODI	S126355391	NORTH SAN JOAQUIN LEVEE REPAIR	NORTH SAN JOAQUIN LEVEE	95240	NPDES
LODI	S121648473	KETTLEMAN LANE IMPROVEMENTS	KETTLEMAN LANE BW HWY 88 & JACK TONE RD	95240	CIWQS
LODI	S121689327	VINTENERS SQUARE KETTLEMAN LN STREET IMPROVEMENTS	HWY 12 KETTLEMAN LN FROM PM 14.6 TO 15.1		CIWQS
LODI	S121642248	GUILD STORAGE	495 GUILD AVE	95240	CIWQS
LODI	S123524444	CALIFORNIA WASTE REMOVAL SYSTEMS INC	TULLY-TOKAY COLONY ROAD	95240	CERS
SAN JOAQUIN COUNTY	S107537519		ALPINE RD AND 1/4 MI NO OF HANDLE RD		CDL
SAN JOAQUIN COUNTY	S107538166		CORNER OF HWY 26 & ALPINE RD		CDL
SAN JOAQUIN COUNTY	S105630663		8 MILE RD BETWEEN ALPINE AND ARATA RD		CHMIRS
SAN JOAQUIN COUNTY	S106389349		KETLEMAN LANE NEAR JACK TONE ROAD AND SR 88 EAST OF LODI		CHMIRS
SAN JOAQUIN COUNTY	M300003210	KRC AGGREGATES, INC.	SAN JOAQUIN COUNTY PIT		US MINES
SAN JOAQUIN COUNTY	S127028097	HIGHWAY 99 MEDIAN IMPROVEMENT PROJECT	SR 99, BETWEEN POST MILE 18.5 AND 29.0, SAN JOAQUIN COUNTY		CIWQS
SAN JOAQUIN COUNTY	S126250453	MOKELUMNE AQUEDUCT NO. 1 PROJECT	SAN JOAQUIN AND CONTRA COSTA COUNTIES		CIWQS
UNINCORPORATED AREA	S111754856		TULLY RD, 500' NORTH OF HARNEY LANE	95240	CHMIRS
UNINCORPORATED COUN	S110424485		TULLY ROAD , NORTH HARNEY LANE,	95240	CHMIRS
UNINCORPORATED COUN	S112827126		MOSHER SLOUGH AT TULLY RD JSO FRAZIER RD	95240	CHMIRS
UNINCORPORATED COUN	S107452136		IN FRONT OF HARNEY LANE BETWEEN TULLY AND ATKINS	95240	CHMIRS

Count: 90 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
UNINCORPORATED COUN	S111756284		CURRY RD. BETWEEN REALITY RD. AND SARGENT RD.UNICORPERTATED AREA OF LODI	95240	CHMIRS
UNINCORPORATED COUN	S110980553		TULLY RD. 100 FEET SOUTH OF KETTLEMAN LN.	95240	CHMIRS
UNINCORPORATED COUN	S116362441		KETTLEMEN LANE, 100 YARDS WEST OF TULLY ROAD, NEAR LODI	95240	CHMIRS
UNINCORPORATED COUN	S116362442		FRAZIER ROAD, 1000 YARDS EAST OF TULLY ROAD, NEAR LODI	95240	CHMIRS
UNINCORPORATED COUN	S116362393		ON TULLY ROAD, 100 FEET NORTH OF FRAZIER ROAD, CLOSEST CITY IS LODI	95240	CHMIRS
UNINCORPORATED COUN	S118738560		LINN ROAD	95240	CHMIRS
UNINCORPORATED COUN	S114000052		TULLY RD. X KETTLEMAN LN.	95240	CHMIRS
UNINCORPORATED COUN	S119000166		TULLY ROAD CROSS OF KETTLEMAN LANE	95240	CHMIRS
VICTOR	S118999521		BUTANE CARTRIDGES: 50 YARD NORTH OF 16830 LOCUST TREE ROAD / WASTE OIL: 50 SOUTH OF 16830 LOCUST TRE	95240	CHMIRS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/19/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 71

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/21/2022
Number of Days to Update: 6

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/09/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 81

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/09/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 08/12/2022
Date Data Arrived at EDR: 08/16/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/03/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 69
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/23/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 68

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/20/2022
Date Data Arrived at EDR: 05/20/2022
Date Made Active in Reports: 08/09/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/12/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 42

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/19/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/09/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/09/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 81
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/10/2022
Date Data Arrived at EDR: 06/10/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2022
Date Data Arrived at EDR: 06/29/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 5

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2022
Date Data Arrived at EDR: 03/18/2022
Date Made Active in Reports: 06/08/2022
Number of Days to Update: 82

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2022
Date Data Arrived at EDR: 04/22/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 84

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/15/2022
Number of Days to Update: 86
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/24/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/15/2022
Number of Days to Update: 86
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/24/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 04/21/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 82

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/21/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 3

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 5

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 75

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/27/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 76

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/24/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 88
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 84
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

STREET AND ADDRESS INFORMATION

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Appendix G2
Phase I ESA for PG&E Thurman Switching Station Site



Together, Building a Better California

Phase I Environmental Site Assessment

1215 Thurman Street
Lodi, California 95240

22 June 2022

Project No.: 0650537

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The business of sustainability

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EXECUTIVE SUMMARY

ERM-West Inc. (ERM) conducted a Phase I Environmental Site Assessment (ESA) of an approximately 17.19-acre property identified by San Joaquin County Assessor's Parcel Numbers (APNs) 049-310-08 and 049-310-09 in Lodi, San Joaquin County, California (Subject Property or Site). The Phase I ESA was conducted in accordance with the scope and limitations of ASTM International Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E1527-13). Exceptions to or deletions from E1527-13 are described in Section 1.3.4 of this report.

The Site visit was performed on 3 June 2022 by ERM assessor Mr. Arjun Sarkar. ERM was accompanied by Rod Brown, City of Lodi Substation Supervisor, at the time of the Site visit. The Site occupies two parcels in San Joaquin County and is owned by the City of Lodi (City). As presented on Figure 2, the Site is developed with the following improvements:

- The City of Lodi Industrial Substation
- Three 20,000-gallon granular activated carbon (GAC) water filtration tanks
- One diesel tank
- A booster pump station with chlorine storage tank
- A million-gallon steel water storage tank,
- A control station building, and
- A building with undetermined chlorine storage

The capacity of the diesel and chlorine storage tanks could not be determined during the Site visit due to access restrictions. The central and east portions of the Site are vacant land.

The Site is depicted in the 1937 historical aerial photograph in use as mostly agricultural land, with what appears to be several single-family residences along the north side of the Site. In the 1993 historical aerial photograph, the Lodi Industrial Substation is depicted occupying the formerly agricultural land on the northwest portion of the Site. The north-central and south-central portions of the Site remain mainly agricultural land, with a single-family residential structure. The east portion of the Site is depicted as vacant land, interspersed with multiple rectangular-shaped structures. The Site is depicted in the 2006 historical aerial photograph as being occupied by the Lodi Industrial Substation in the northwest portion with a paved area directly adjacent to the south containing a large above-ground storage tank (AST) and booster pump station. The remaining portions of the Site are vacant land.

The City operates the Lodi Industrial Substation facility, which receives and transmits electricity for use by the City. The paved area adjacent to the south of the substation includes the booster pump station and million-gallon steel water storage tank, which is operated by the City Public Works Department. The paved area is used for treating and storing water, which is used for the City's public water supply.

ERM identified the following findings for the Site:

Summary of Identified Issues

ASTM E1527-13 Findings

Recognized Environmental Conditions (RECs)[1]

- No RECs were identified.

Controlled Recognized Environmental Conditions (CREC)[2]

- No CRECs were identified.

Historical Recognized Environmental Conditions (HRECs)[2]

- No HRECs were identified.

***De minimis* conditions**

- Agri-Chemical Use: The Site had been developed for agricultural use since sometime prior to 1937. Based on the length of time that pesticides and/or herbicides may have been utilized at the Site, the potential for agricultural chemical residues in the soil and groundwater exists. However, based on the proposed land use, the residues from the application of fertilizers, herbicides, and pesticides are not considered a REC.
- Illegal Dumping: ERM observed dumping along the southern, northern, and central portions of the Subject Property. Materials observed include three empty one-gallon antifreeze containers on the southern boundary, a couch on the northern boundary, and miscellaneous plastics and clothing in the central portion. No staining was observed in these areas.

Other Potential Issues

- No other potential issues were identified.

[1] Key ASTM definitions, including REC, CREC, HREC, and *de minimis* condition, are provided in Section 8.

1. INTRODUCTION AND BACKGROUND

1.1 Purpose and Auditors

On behalf of Pacific Gas and Electric Company (PG&E or Client), ERM-West, Inc. (ERM) completed a Phase I Environmental Site Assessment (ESA) of an approximately 17.19-acre property identified by San Joaquin County Assessor's Parcel Numbers (APNs) 049-310-08 and 049-310-09 in Lodi, San Joaquin County, California (Subject Property or Site). The environmental assessment was performed in anticipation of a financial transaction involving the Site.

The Site visit was performed on 3 June 2022 by ERM assessor Mr. Arjun Sarkar. ERM was accompanied by Rod Brown, City of Lodi Substation Supervisor, at the time of the Site visit.

The "User" of this Phase I ESA report, as prescribed under ASTM International (ASTM) Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E1527-13) is defined as PG&E.

1.2 Scope of Work

This environmental assessment was conducted in conformance with ERM's proposal dated 24 May 2022 and with the requirements of ASTM E1527-13. Exceptions to or deletions from E1527-13 are described in Section 1.3.4 of this report.

ERM's Phase I ESA sought to gather information regarding: (1) current and past property uses and occupancies; (2) current and past use of hazardous substances and petroleum products; (3) waste management and disposal activities that could have caused a release or threatened release of hazardous substances; (4) current and past corrective actions and response activities to address past and ongoing releases of hazardous substances at the Subject Property; and (5) properties adjoining or located near the Subject Property that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Subject Property.

The scope of this Phase I ESA included:

- An onsite inspection to evaluate current conditions and identify areas of potential concern;
- A review of the history of the Subject Property and its vicinity through interviews and a review of various historical sources;
- Observation of adjoining properties and properties in the local area to evaluate the potential for adverse environmental impact to the Subject Property;
- Interviews/research of local city/county, tribal, state, and federal records, including contracting of Environmental Data Resources, Inc. (EDR) to identify regulatory listings for the Site and regulatory-listed facilities in the Site vicinity, as required in the regulatory records review section of ASTM E1527-13; and
- Interviews and/or requests for information from the User and Subject Property owner, as deemed appropriate by the Environmental Professional.

1.3 Limiting and Special Conditions

1.3.1 Limiting Conditions during the Site Visit

The paved area adjacent to the substation facility was surrounded by a fence, and the Site Representative was not able to provide ERM access to observe the interior. No other limiting conditions were found during the Site Visit.

1.3.2 Data Gaps

The following table summarizes the data gaps identified during the Site assessment.

Table 1-1: Data Gap Summary

Data Gap / Failure	Sources Consulted to Address Data Gap	Significance*
ERM was unable to interview current or former Subject Property owners	ERM reviewed those reasonably obtainable sources listed in Table 7-1.	Non-significant

** "Significance" provides a qualitative indication of the implication of the identified data gap relative to the Environmental Professional's ability to identify conditions indicative of releases or threatened releases to the subject property. "Non-significant" indicates that additional information to fill the data gaps is not likely to have a negative impact on ERM's conclusions presented in this report. "Significant" indicates that it is ERM's opinion that additional diligence or investigation (such as additional data review or physical sampling of environmental media) is required to address the data gap.*

1.3.3 Significant Assumptions

No significant assumptions have been made.

1.3.4 Exceptions to and Deletions from E1527-13

ERM has not identified any exceptions to or deletions from E1527-13.

2. PHYSICAL SITE SETTING

Table 2-1: Physical Site Setting

Site Setting	
Location	The Site is located at 1215 E. Thurman Road in Lodi, San Joaquin County, California. The general location of the Subject Property and the physiographic features of the surrounding area are shown on Figure 1, developed from the United States Geological Survey (USGS) 7.5-minute quadrangle for Lodi North, California, dated 2018.
Topography and Hydrology	
Topographic Gradient	Based on a review of the EDR Radius Map, the Site is at an elevation of approximately 60 feet above mean sea level (AMSL). The Site topography slopes generally toward the west.
Nearest Surface Waterbody	Mokelumne River is located approximately 1.25 miles north of the Site. The Subject Property is not located within the 500-year flood plain according to the EDR Radius Map.
Wetlands	The Subject Property is designated as a 0.2% Annual Chance Flood Hazard area according to the EDR Radius Map. The Subject Property is not designated as a federal wetland according to the EDR Radius Map.
Geology and Hydrogeology	
Geology	According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, Site soils are described as Tokay soils. Tokay soils are categorized as fine sandy loam that is moderately well and well drained with moderate infiltration rates and a high corrosion potential to uncoated steel.
Depth to Water	According to the EDR Radius Report, no site-specific hydrogeological data is available for the Subject Property.
Onsite Wells	According to the EDR Radius Report, four state water supply wells are registered at the Site. There are 82 state water supply wells and eight USGS federal water supply wells identified within a one-mile radius of the Subject Property.
Presumed Groundwater Flow Direction	Groundwater may flow generally to the north of the Subject Property toward Mokelumne River. It should be noted that groundwater flow direction can be influenced locally and regionally by subsurface topography, recharge and discharge areas, horizontal or vertical inconsistencies in the types and location of subsurface soil and bedrock, and proximity to water pumping wells. A detailed evaluation of the groundwater flow direction at the Site was not a part of the scope of this assessment.

3. SITE DESCRIPTION, OPERATIONS, AND HISTORY

3.1 General Site Description

Table 3-1: Site Layout and Use

Subject	Description
Facility Name	Lodi Industrial Substation
Parcel Identification	APNs 049-310-08 and 049-310-09
Owner/Lessor	City of Lodi
Subject Property Size	17.19 acres
Number of Buildings and Square Footage	There are two buildings on the Site, a control station building on the substation area and one building on the paved area adjacent to the south of the substation area. The square footage of the buildings could not be determined at the time of ERM's site visit.
Interior Features	The control station building is located on the substation area and contains a lead-acid battery storage room, substation control mechanisms in the central portion of the building, and a small office space. An 8,000-watt gasoline powered generator is located in the control station building. According to the Site Representative, the building on the paved area adjacent to the south of the substation contains equipment for chlorine injection.
Exterior Features	The Lodi Industrial Substation facility was observed on the northwest portion of the Subject Property, and is surrounded by a fence with gated access on the south side of the facility. Located on the substation area is a control station building, 14 circuit breakers, an unused above-ground oil tank in the southeast portion of the substation area, and a sump and two storm drains on the southwest and central portions of the substation area. A paved area is adjacent to the south of the substation area and is surrounded by a fence. The fenced area contains three 20,000-gallon granular activated carbon (GAC) water filtration tanks, a booster pump station containing a 125 horse-power electric motor, a building that houses chlorine injection equipment, a diesel tank, and a million-gallon steel water storage tank which provides water to the City. The capacity of the diesel tank and whether chlorine chemicals were stored in the building could not be confirmed at the time ERM's s site visit due to access restrictions. The portions of the Subject Property east of the substation and paved area are unfenced vacant land.
Operations	The City operates the Lodi Industrial Substation facility, which receives and transmits electricity for use by the City. The paved area adjacent to the south of the substation facility includes a booster pump station and million-gallon steel water storage tank, which is operated by the City Public Works Department. The paved area is used for treating and storing water, which is used for City public water supply.
Utility Providers	The Subject Property is serviced for electricity, sanitary wastewater, and storm water by the City.

A Site Features and Vicinity Map is provided as Figure 2. Photographs of the Site are included as Appendix A.

3.2 Site History

To determine past uses of the Subject Property and surrounding properties, ERM reviewed historical sources of information as outlined in the References section of this report (Section 7).

Table 3-2: Historical Timeline

Timeframe	Discussion
1894 – 1937	The Subject Property is first depicted in the 1937 historical aerial photograph as mostly agricultural land, with what appears to be several single-family residences along the north side of the Site.
1940 – 1993	The Subject Property is depicted in the 1940 historical aerial photograph as similar to the 1937 historical aerial photograph. Dense vegetation in the north-central portion of the Site is depicted as being cleared in the 1963 historical aerial photograph, with the single-family residential structure still present. In the 1993 historical aerial photograph, the agricultural use area in the southwest portion of the Site appears to be cleared, leaving vacant land. The Lodi Industrial Substation (1215 E. Thurman Road) is depicted occupying the formerly agricultural land on the northwest portion of the Site. The north-central and south-central portions of the Site remain mainly agricultural land, with a single-family residential structure. The east portion of the Site is vacant land, interspersed with multiple rectangular-shaped structures.
2006 - 2016	The Subject Property is depicted in the 2006 historical aerial photograph as being occupied by the Lodi Industrial Substation (1215 E. Thurman Road) in the northwest portion with a paved area directly adjacent to the south containing a large AST and booster pump station. The remaining portions of the Site are depicted as vacant land.
Present	Observations made at the time of ERM's Site inspection are discussed throughout this report.

3.2.1 Discussion of Historical Environmental Issues/ Assessments/ Investigations

According to the EDR database, City of Lodi, Calpeak Power-Midway LLC, Lodi Water Division – Well #4R, and Lodi Electric Energy Facility, located on the Subject Property, was listed on the FINDS, HWTS, CERS, EMI, and CIWQS databases. The HWTS listings indicate that the property is listed with NAICS code: 221122 for Electric Power Distribution. The CERS listings indicate that the property is a chemical storage facility with the following violations in 2021: failure to complete and electronically submit a site map with all required contents, failure to provide initial and annual training to all employees in safety procedures in the event of a release of a hazardous material, and failure to annually review and certify that the business plan is complete. All violations returned to compliance by 2021. The EMI listings indicate that the property is a registered facility on the San Joaquin Valley Unified Air Pollution Control District (APCD), generating NO_X gas (0.0484 tons/yr), SO_X gas (<5.00e-005 tons/yr) and total organic hydrocarbon gases (<0.0009 tons/yr) in 2019. The CIWQS listing indicates that the property's storm water construction program terminated 1 April 2004. No further items are noted.

4. SITE ENVIRONMENTAL OPERATIONS

Table 4-1: Site Environmental Operations

Subject	Description	Discussion of Environmental Conditions
Storage and Use of Hazardous Materials	60 lead acid batteries are stored on Site in the control station building. The substation facility uses equipment which contains approximately 200 to 230 pounds (lbs) of SF6 gas, according to the Site Representative. Approximately 9,500 gallons of mineral oil are stored on the substation facility. An 8000-watt gasoline powered generator is located in the control station building on the substation facility. A diesel AST of undetermined capacity was observed in the paved area. The hazardous material storage appears to be in good condition with no evidence of leaks or spills.	No Environmental Conditions identified.
Bulk Storage (ASTs and USTs)	Yes: ☒ No: ☐ No evidence of current USTs were observed on the Subject Property during the Site visit. An empty oil AST on the substation facility, three 20,000–gallon GAC water filtration tanks, a diesel AST of undetermined capacity, and a million-gallon steel water storage tank located on the paved area is located on the Site. The ASTs appeared to be in good condition.	No Environmental Conditions identified
Water Supply, Use, and Management	According to the EDR database, four water wells are located on the Site. Sanitary wastewater service provided by the City.	No Environmental Conditions identified
Wastewater	*Sanitary*: No evidence of septic systems was observed at the Site. Sanitary wastewater service is provided by the City for the control station building located on the substation facility. Sanitary wastewater is discharged to the local wastewater treatment plant.	No Environmental Conditions identified
	Storm water: Storm water infiltrates into storm drains located on the substation facility and paved area, and is discharged into a catch basin system before being discharged to the municipal storm water system. Storm water on the vacant portions of the Site seeps into the soil.	
	Process Water: Based on observations made by ERM during the Site visit, no process wastewater is currently produced at the Site.	
Waste Disposal	*Hazardous Waste*: The Site Representative informed ERM that no hazardous wastes are generated at the Subject Property.	No Environmental Conditions identified
	Non-Hazardous Waste: No non-hazardous wastes are generated or shipped from the Subject Property.	

Subject	Description	Discussion of Environmental Conditions
	Other Regulated Waste: According to the Site Representative, lead-acid batteries from the control station building are replaced approximately every 10 years and are transported off-site.	
Polychlorinated Biphenyls (PCBs)	ERM inspected the Subject Property for equipment that has been historically associated with the use of PCBs as a dielectric fluid coolant and stabilizer. The Site Representative informed ERM that transformers and circuit breakers located on the substation facility are non-PCB-containing and utilize mineral oil.	No Environmental Conditions identified
Stained Soils, Stressed Vegetation, and Odors	No stained soils, distressed vegetation, or odors were noted during the Site visit.	No Environmental Conditions identified
Asbestos-Containing Material (ACM)	Asbestos was banned in most friable building materials (spray-applied surfacing materials and thermal system insulation) in 1978, but the Occupational Safety and Health Administration (OSHA) deems spray-applied surfacing materials, thermal system insulation materials, and vinyl flooring materials as “presumed asbestos-containing materials” (PACMs) if they are present in pre-1981 buildings (Title 29 of the Code of Federal Regulations (CFR), Parts 1910.1001 and 1926.1101). The Site contact informed ERM that no ACM is present in existing buildings onsite. Based on aerial photograph review, historical buildings onsite since at least 1937 have since been removed, and the current buildings were constructed after 1978. Site personnel were not aware of the presence of any ACM or buildings formerly on the Site. It is unlikely that significant levels of ACMs asbestos-containing materials are present at the Site.	No Environmental Conditions identified
Ozone-Depleting Substances (ODS)	ERM observed equipment on the substation facility containing SF6 gas at the Site. The SF6 gas is self-contained and is not considered a potential ODS issue.	No Environmental Conditions identified
Lead-Based Paint (LBP)	In 1978, LBP was banned by the United States government for use on residences or other buildings where consumers could be exposed. The buildings currently at the Site were built after 1978, and appeared to be in good condition.	No Environmental Conditions identified
Mold	The buildings at the Site appeared to be in good condition, and no signs of mold were observed. Mold is not considered a potential issue.	No Environmental Conditions identified

5. SURROUNDING PROPERTIES

5.1 Current Surrounding Properties

Land use in the area of the Subject Property primarily consists of residential dwellings, a commercial lot, and vacant lots. The adjoining properties and nearby land use, as observed by ERM at the time of the Site inspection, are shown in Table 5-1.

Table 5-1: Current Surrounding Properties

Direction	Discussion	Historical
North	The Site is bound to the north by railroad tracks, followed by E Lodi Ave, and beyond an auto upholsterer (1209 E Lodi Ave), Meehleis Modular Buildings Inc. (1303 E Lodi Ave), and Service Master (1355 E Lodi Ave).	The area north of the Site historically was a railroad in 1937, followed by agricultural land. Commercial building development was observed in the 1972 historical aerial photograph. The E Lodi Ave road was undergoing construction from at least 1984 until 1993. Commercial development of the area north of the Site was completed by 2009.
South	The Site is bound to the south by E Thurman Road, followed by Schaefer Systems (1250 E Thurman Road), Scientific Specialties Inc. (1310 E Thurman Road), and a medical supply store (1330 E Thurman Road).	The area south of the Site historically was agricultural land from 1937 to 1993. Commercial development of the area south of the Site was observed in the 2009 historical aerial photograph, and appears to have been fully completed by at least 2016.
East	The Site is bound to the east by S Guild Ave, followed by Pacific Coast Producers (650 S Guild Ave).	The area east of the Site historically was agricultural land from 1937 to 1984. The area returned to vacant land from at least 1993 to 2012. The Pacific Coast Producers (650 S Guild Ave) warehouse building appears to have been constructed by at least 2016.
West	The Site is bound to the west by railroad tracks followed by vacant land to the northwest, and North American Specialty Products (300 Beckman Road) to the west.	Based on aerial photographs reviewed, the area west of the Site is depicted as orchards and row crops in 1937. From 1940 to 1963, the area was entirely row crops. By 1972, the central building was developed. Additional portions of the vacant land surrounding the central building were developed into paved areas for storage of various PVC piping by 2006.

5.2 Adjoining Property Agency Review

The south adjoining property was listed in the database as Schaefer Systems LLC, located at 1250 E Thurman Road, approximately 68 feet south and topographically lower than the Subject Property. The property is listed on the HAZNET, NPDES, HWTS, CERZ HAZ WASTE, CERS TANKS, and CERS databases. The HAZNET listings indicate that the property generated other organic solids, waste oil and

mixed oil, and unspecified oil-containing waste from 2016 to 2019. The facility is listed with the NAICS Code: 326199, for All Other Plastics Product Manufacturing. The CERS, CERS TANKS, and CERZ HAZ WASTE listings indicate that the property is a hazardous waste generator which utilizes aboveground petroleum storage. The facility is listed for the following violations from 2014 to 2018: failure to complete and submit hazardous material inventory information for all reportable hazardous materials on site, failure to complete and submit a site map with all required features, and failure to establish and electronically submit an adequate emergency response plan for a release or threatened release of a hazardous material. All violations returned to compliance by 2018. No further items are noted.

The south adjoining property was listed in the database as Scientific Specialties Inc., located at 1310 E. Thurman Road, approximately 109 feet south and topographically lower than the Subject Property. The property is listed on the HAZNET and HWTS databases. The HAZNET listing indicates that the property generated other inorganic solid waste, hydrocarbon solvents (benzene, hexane, Stoddard solvent, etc.), aqueous solution with total organic residues less than 10 percent, and unspecified solvent mixture from 2001-2019. No further items are noted.

The south adjoining property was listed in the database as R & L Carriers, located at 1330 E. Thurman Road, approximately 112 feet south and topographically lower than the Subject Property. The property is listed on the CERZ HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, and HWTS databases. The CERZ HAZ WASTE listing indicates that the facility is a hazardous waste generator. The HAZNET listing indicates that the property transported off-specification, aged or surplus inorganics offsite in 2016. The CIWQS listing indicates that storm water industrial regulatory measures were terminated on 30 November 2020. The CERS listing indicates that the facility is listed as a chemical storage facility with the following violations from 2015 to 2018: failure to complete and submit hazardous material inventory information for all reportable hazardous materials on site, failure to complete and submit a site map with all required features, and failure to establish and electronically submit an adequate emergency response plan for a release or threatened release of a hazardous material. All violations returned to compliance by 2018. No further items are noted.

6. CONCLUSIONS

ERM has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of the Site (as defined in Section 1 of this report). Exceptions to or deletions from this practice are described in Section 1.3.4 of this report. As summarized below, de minimis conditions were identified in connection with the Subject Property in this Phase I ESA.

Summary of Identified Issues

ASTM E1527-13 Findings
Recognized Environmental Conditions (RECs)
■ No RECs were identified.
Controlled Recognized Environmental Conditions (CRECs)
■ No CRECs were identified.
Historical Recognized Environmental Conditions (HRECs)
■ No HRECs were identified.
***De minimis* conditions**
■ Agri-Chemical Use: The Site had been developed for agricultural use since sometime prior to 1937. Based on the length of time that pesticides and/or herbicides may have been utilized at the Site, the potential for agricultural chemical residues in the soil and groundwater may exist. However, based on the proposed land use, the residues from the application of fertilizers, herbicides, and pesticides are not considered a REC.
■ Illegal Dumping: ERM observed dumping along the southern, northern, and central portions of the Subject Property. Materials observed include three empty one-gallon antifreeze containers on the southern boundary, a couch on the northern boundary, and miscellaneous plastics and clothing in the central portion. No staining was observed in these areas.
Other Potential Issues
■ No other potential issues were identified.

7. REFERENCES

The following sources were used in conducting the Phase I ESA detailed in this report. Where information obtained from these sources was determined to be useful by the Environmental Professional, it is summarized in the body of this report. Copies of prior environmental reports and other pertinent documents are appended.

Table 7-1: Regulatory Agency Review

Agency/Company	Person Contacted	Telephone	Regarding
ParcelQuest	Online subscription database	N/A	Site ownership information.
Environmental Data Resources, Inc. 6 Armstrong Road, 4th Floor Shelton, CT 06484	NA	800-241-6476	Environmental Database Search Report, topographic maps, aerial photographs, and city directories.
Internet Resources	NA	NA	USFWS National Wetlands Inventory; CalEPA Regulated Site Portal, GAMA
San Joaquin County Air Pollution Control District (APCD)	NA	NA	Air emission inventories, on-site air emission waste
Department of Toxic Substances Control (DTSC)	NA	NA	Hazardous waste tracking and review
Central Valley Regional Water Quality Control Board	NA	NA	Wastewater and storm water discharge manifests
San Joaquin County Environmental Health Department (SJCEHD)	NA	NA	Certified Unified Program Agency (CUPA) records for hazardous waste and hazardous materials

Table 7-2: Summary of Historical Sources Reviewed

Agency/Source of Information	Data Provided	Years Reviewed (if applicable)	
		Subject Property	Surrounding Properties
EDR	Topographic Maps	1894, 1908, 1939, 1942, 1947, 1953, 1968, 1976, 1993, 2012, 2015, 2018	1894, 1908, 1939, 1942, 1947, 1953, 1968, 1976, 1993, 2012, 2015, 2018
EDR	Sanborn Fire Insurance Maps	No coverage	No coverage
EDR	City Directories	No coverage	2000, 2005, 2010, 2014, 2017
EDR	Aerial Photographs	1937, 1940, 1957, 1963, 1972, 1975, 1984, 1993, 1998, 1998, 2006, 2009, 2012, 2016	1937, 1940, 1957, 1963, 1972, 1975, 1984, 1993, 1998, 1998, 2006, 2009, 2012, 2016

8. LIMITATIONS AND OTHER CONSIDERATIONS

8.1 General Limitations

There are a number of exclusions and limitations associated with this assessment. These are briefly outlined below:

- This report has been prepared by ERM exclusively for Client and may not be relied upon by any other recipient, person or entity (together, henceforth, "Other Recipient") without ERM's express, written permission. ERM makes no warranties or representations to any Other Recipient and has no obligation to advise any Other Recipient regarding changes to this report or changes in applicable laws and regulations subsequent to the date of this report. In receiving this report, any Other Recipient agrees that (a) it will make no claim against ERM that relates in any way to this report, or the Other Recipient's access to this report, and (b) to the fullest extent permitted by applicable law, Other Recipient hereby releases ERM from, and will defend and hold harmless ERM from and against, any claim, action, suit, damage, loss, award, liability, expense, cost, or fees including attorneys' fees arising from or relating to any use or disclosure of the report or any portion thereof by Other Recipient or any third party to whom Other Recipient discloses the Report. Notwithstanding the foregoing, if requested, ERM will issue reliance letters allowing lenders or other interested parties to rely on the contents of this report, in accordance with ERM's terms and conditions, for financing or other purposes.
- ERM is an environmental consulting firm, and as such we make no representations regarding questions of legal or accounting interpretation. Consultation with an attorney and/or certified accountant should be made with respect to any legal or accounting matters, or items that require such interpretation, under any law, regulation, or contract.
- ERM did not independently verify information on publicly available databases. Therefore, our findings are accurate and complete only to the extent that information provided to ERM was itself accurate and complete.
- The conclusions presented in this report represent ERM's professional judgment based on the information made available to us during the course of this assessment and are true and correct to the best of ERM's knowledge as of the date of this report.
- No sampling or testing of soils, waters, or other materials was included as part of this assessment. However, reference may have been made to previous testing and sampling, as appropriate.
- Unless otherwise stated within this report, ERM has assumed that the Site will continue to be used for current purposes. ERM's assessment does not include provision for Site closure or change in land use, unless expressly stated above.
- State-specific regulations related to property transfer (or ownership changes) may apply to the proposed transaction. Costs related to compliance with these State requirements were not included in ERM's Assessment.
- Unless otherwise stated, ERM assumes the User (as defined in E1527-13—see Section 8.4) is the Client.

8.2 ASTM Limitations

The innocent landowner, contiguous owner, and prospective purchaser defenses to liability under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) require that a person acquiring property conduct an all appropriate inquiry with respect to the Site. ERM has conducted

this environmental assessment in accordance with the standards for conducting an all appropriate inquiry set forth at 40 CFR 312. Those standards require the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations and exercise of discretion. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, and data gaps identified herein, scope of work, budget, and schedule. Those standards also require that the User undertake certain additional inquiries. In addition, the liability defenses under CERCLA require, among several other things, that the User after the acquisition stop any continuing releases, prevent any future threatened releases and prevent or limit human, environmental or natural resource exposure to any hazardous substance released at the Site. Therefore, ERM makes no warranties, express or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose, including any warranty that this Phase I assessment will in fact qualify User for the innocent landowner, contiguous property owner or prospective purchaser defense to liability under CERCLA. ERM's assessment is limited strictly to identifying recognized environmental conditions associated with the Site. Results of this assessment are based upon the visual Site inspection of readily accessible areas of the Site conducted by ERM personnel, information from interviews with knowledgeable persons regarding the Site, information reviewed regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the property and surrounding properties. All conclusions and recommendations regarding the Site represent the professional opinions of the ERM personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. ERM assumes no responsibility or liability for errors in the public data used, statements from sources outside of ERM, or developments resulting from situations outside the scope of this project. We make no warranties, express or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose.

8.3 Other Considerations

8.3.1 Environmental Database Search

ERM contracted EDR to conduct a database search for agency records. The appended database report defines and summarizes the ASTM databases reviewed in the EDR report and notes if any listed facilities (including the Subject Property) were identified in the specified radius. The locations of the listed facilities identified in the EDR report were evaluated to determine which listed facilities were located within the ASTM specified search distance from the Subject Property boundary. Only those listed facilities worthy of further discussion are discussed within the applicable sections of this report and data on additional listed facilities is included in the appended EDR database report.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to ±100 m. The EDR report provides a list of unmapped facilities for which inadequate location information was provided. ERM has reviewed the list of "unmapped" listed facilities to determine if these listed facilities are within the study radius. If the "unmapped" listed facilities appeared likely to be within the search radius for a specific database, they are discussed in the applicable sections of this report.

Listed facilities identified within the study radii were evaluated to determine if they are likely to have adversely impacted the Subject Property. The criteria used to evaluate the potential for adverse impact to the Subject Property include:

- Distance from the Subject Property;
- Expected depth and direction of groundwater and surface water flow;

- Geology and physical ground conditions;
- Expected storm water flow direction;
- The presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators; and
- The current regulatory status of the listing.

The identification of a listed facility as potentially upgradient or downgradient is based on the expected direction of groundwater flow referenced in Section 2.3.

8.3.2 User-Provided Information

ERM contacted the User with respect to the following information:

- An evaluation of the presence of Environmental Cleanup Liens for the Subject Property;
- Activity and Use Limitations such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the Subject Property;
- Specialized Knowledge that includes personal knowledge or experience related to the Subject Property or nearby properties based on professional experience or knowledge of the Subject Property;
- Obvious Indicators that involve past or present spills, stains, releases, cleanups on or near the Subject Property; and
- Common Knowledge about specific chemicals, possible contamination, or past use of the Subject Property and surrounding area.

Relevant information provided by the User is summarized under the appropriate headings of this report, and in the following table:

Table 8-1: User-Provided Information

User Request	Response
Environmental Cleanup Liens	No information provided
Activity and Use Limitations (AULs) and land use restrictions or institutional controls	No information provided
Specialized Knowledge	The Site Representative provided information regarding an on-site sump located on the substation facility used for potential release of mineral oil from transformers.
Obvious Indicators that involve past or present spills, stains, releases, or cleanups	The Site Representative informed ERM that no past or current spills or cleanups had occurred at the Site.
Common Knowledge about specific chemicals, possible contamination, or past use	The Site Representative provided knowledge on the use of mineral oil, SF6 gas, and lead-acid batteries on the substation facility. These chemicals are located in self-contained, insulated equipment as part of substation operations.

8.4 Key ASTM Definitions

ASTM E1527-13 prescribes the following definitions:

Recognized Environmental Condition (REC): "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment..."

Controlled REC (CREC): "…a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)…"

Historical REC: "…a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria)..."

***De minimis* condition:** "…a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies..."

Data gap: "…a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to Site reconnaissance (for example, an inability to conduct the Site visit), and interviews (for example, an inability to interview the key Site manager, regulatory officials, etc.)…"

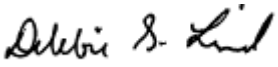
Data failure: "…a failure to achieve the historical research objectives…even after reviewing the standard historical sources … that are reasonably ascertainable and likely to be useful..."

User: "…the party seeking to use Practice E1527 to complete an Environmental Site Assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice..."

9. ENVIRONMENTAL PROFESSIONAL CERTIFICATION

This Phase I ESA was conducted by Mr. Arjun Sarkar of ERM. Ms. Debbie Lind reviewed the contents of this report. The professional qualifications for Ms. Lind are appended to this report. Ms. Lind meets the definition of Environmental Professional as defined in 40 CFR 312.10 and have prepared the following declaration and signed in accordance below.

- I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10.
- I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

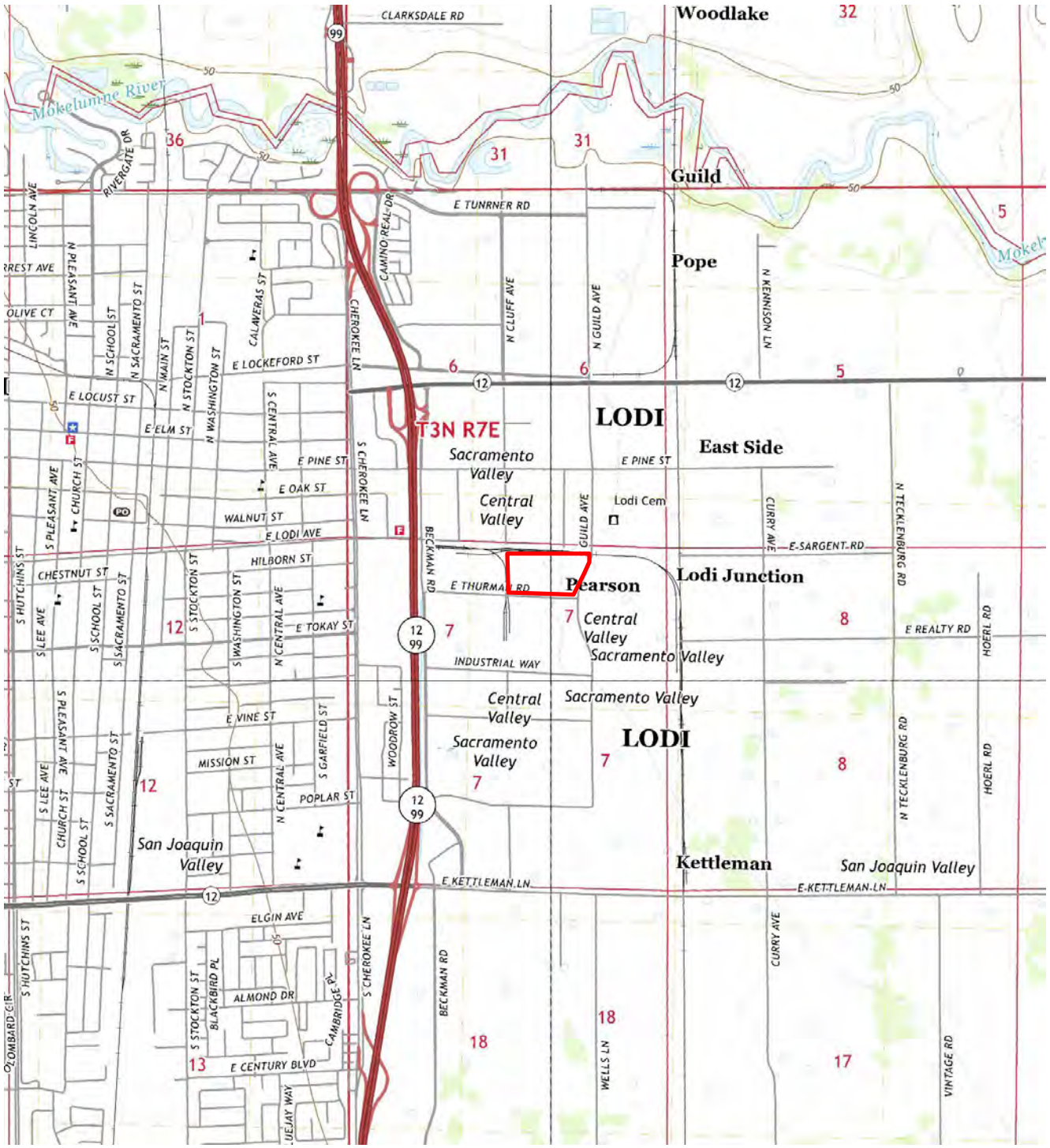


Debbie Lind
Partner-in-Charge (Environmental Professional)



Arjun Sarkar
Site Assessor

ERM-West, Inc.
1277 Treat Blvd., Suite 500
Walnut Creek, California 94597
T: 925 946 0455
F: 925 946 9968



Approximate Site Boundary

SOURCE: Lodi North, CA 7.5 Minute Topographic Quadrangle, 2018

SCALE: 1:25,000

N

ERM

SITE LOCATION MAP
Project Reference: PG&E Lodi Industrial Sustation
APNs: 049-310-08 and 049-310-09
Lodi, California

Figure
1



Fence

Approximate Subject Property Boundary

Source: Aerial Google EarthPro 2020

N

ERM

SITE FEATURES AND VICINITY MAP

Project Reference: PG&E Lodi Industrial Substation
APN: 049-310-08 and 049-310-09
Lodi, California

Figure

2

FIGURES

APPENDIX A SITE PHOTOGRAPHS



Photograph: 1	1215 Thurman Street street-sign designation in the southwest corner of the Subject Property, facing east on the fence perimeter surrounding the paved area.



Photograph: 2	View of the million-gallon steel water storage tank, facing south on the southwest corner of the Subject Property.



Photograph: 3	View of the building on the paved area which stores chlorine injection equipment, facing east on the southwest portion of the Subject Property.



Photograph: 4	View of the three 20,000-gallon GAC water filtration tanks facing east, in the paved area in the southwest portion of the Subject Property.



Photograph: 5	View of the diesel tank from the paved area facing north, in the southwest portion of the Subject Property.



Photograph: 6	View of the 125 horse-power electric motor (black) in the paved area facing west, in the southwest portion of the Subject Property.



Photograph: 7	View of the paved area and substation side-by-side, facing north in the southwest portion of the Subject Property.



Photograph: 8	View of the vacant land bordering the paved area, facing south from the south fence line of the substation.



Photograph: 9	Empty oil storage tank in the substation facility, facing north along the south fence line of the facility.



Photograph: 10	View of the lead-acid battery storage room inside of the control station building, at the substation facility in the northwest portion of the Subject Property.



Photograph: 11	Sump located in the center of the substation, in the northwest portion of the Subject Property.



Photograph: 12	Front entrance of the substation, facing north at the center of the west side of the Subject Property.



Photograph: 13	Gravel and dirt piles located adjacent to the east of the substation facing railroad tracks to the north, in the northwest portion of the Subject Property.



Photograph: 14	Empty antifreeze container along the south side of the Subject Property, facing north.



Photograph: 15	Empty antifreeze container along the south side of the Subject Property, facing north.



Photograph: 16	Couch adjacent to the railroad facing north, along the north boundary of the Subject Property.



Photograph: 17	Vacant land facing west, from the east boundary of the Subject Property.



Photograph: 18	Miscellaneous clothing and plastics debris in the central portion of the Subject Property, facing west.



Photograph: 19	Empty antifreeze container, facing west in central portion of the Site.

APPENDIX B HISTORICAL SOURCES

PG&E Lodi Thurman Substation
1215 THURMAN ST
Lodi, CA 95240

Inquiry Number: 7000871.4
May 31, 2022

EDR Historical Topo Map Report
with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/31/22

Site Name:	Client Name:
PG&E Lodi Thurman Substatio	ERM - West, Inc.
1215 THURMAN ST	1277 Treat Blvd
Lodi, CA 95240	Walnut Creek, CA 94597
EDR Inquiry # 7000871.4	Contact: Arjun Sarkar

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ERM - West, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	38.129486 38° 7' 46" North
Project:	PG&E Lodi Thurman Substatio	**Longitude:**	-121.251408 -121° 15' 5" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	653257.08
		UTM Y Meters:	4221626.12
		Elevation:	59.55' above sea level

Maps Provided:

2018	1942
2015	1939
2012	1908, 1910
1993	1894
1976, 1978, 1979	
1968	
1953	
1947	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Lodi North
2018
7.5-minute, 24000



Lockeford
2018
7.5-minute, 24000



Lodi South
2018
7.5-minute, 24000



Waterloo
2018
7.5-minute, 24000

2015 Source Sheets



Lodi North
2015
7.5-minute, 24000



Lockeford
2015
7.5-minute, 24000



Lodi South
2015
7.5-minute, 24000



Waterloo
2015
7.5-minute, 24000

2012 Source Sheets



Lodi North
2012
7.5-minute, 24000



Lockeford
2012
7.5-minute, 24000



Lodi South
2012
7.5-minute, 24000



Waterloo
2012
7.5-minute, 24000

1993 Source Sheets



Lockeford
1993
7.5-minute, 24000
Aerial Photo Revised 1978

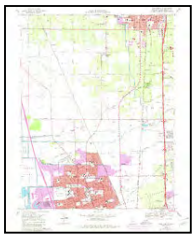
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1976, 1978, 1979 Source Sheets



Lodi North
1976
7.5-minute, 24000
Aerial Photo Revised 1976



Lodi South
1976
7.5-minute, 24000
Aerial Photo Revised 1976



Waterloo
1978
7.5-minute, 24000
Aerial Photo Revised 1967



Lockeford
1979
7.5-minute, 24000
Aerial Photo Revised 1978

1968 Source Sheets



Lockeford
1968
7.5-minute, 24000
Aerial Photo Revised 1967



Lodi South
1968
7.5-minute, 24000
Aerial Photo Revised 1967

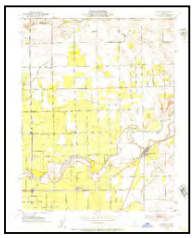


Waterloo
1968
7.5-minute, 24000
Aerial Photo Revised 1967

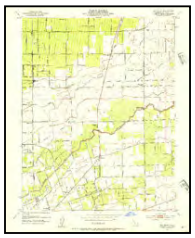


Lodi North
1968
7.5-minute, 24000
Aerial Photo Revised 1967

1953 Source Sheets



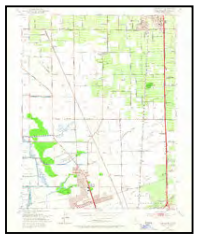
Lockeford
1953
7.5-minute, 24000
Aerial Photo Revised 1949



Waterloo
1953
7.5-minute, 24000



Lodi North
1953
7.5-minute, 24000
Aerial Photo Revised 1949



Lodi South
1953
7.5-minute, 24000
Aerial Photo Revised 1949

1947 Source Sheets

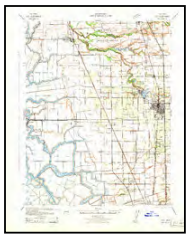


LODI
1947
15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets



Lodi
1942
15-minute, 62500
Aerial Photo Revised 1939

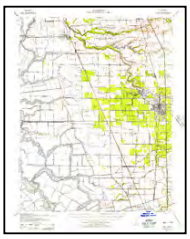


Bellota
1942
15-minute, 62500
Aerial Photo Revised 1939

1939 Source Sheets



Bellota
1939
15-minute, 62500
Aerial Photo Revised 1939

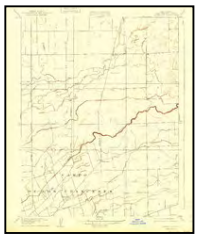


Lodi
1939
15-minute, 62500
Aerial Photo Revised 1939

1908, 1910 Source Sheets



Lockeford
1908
7.5-minute, 31680



Waterloo
1908
7.5-minute, 31680



Woodbridge
1910
7.5-minute, 31680



Castle
1910
7.5-minute, 31680

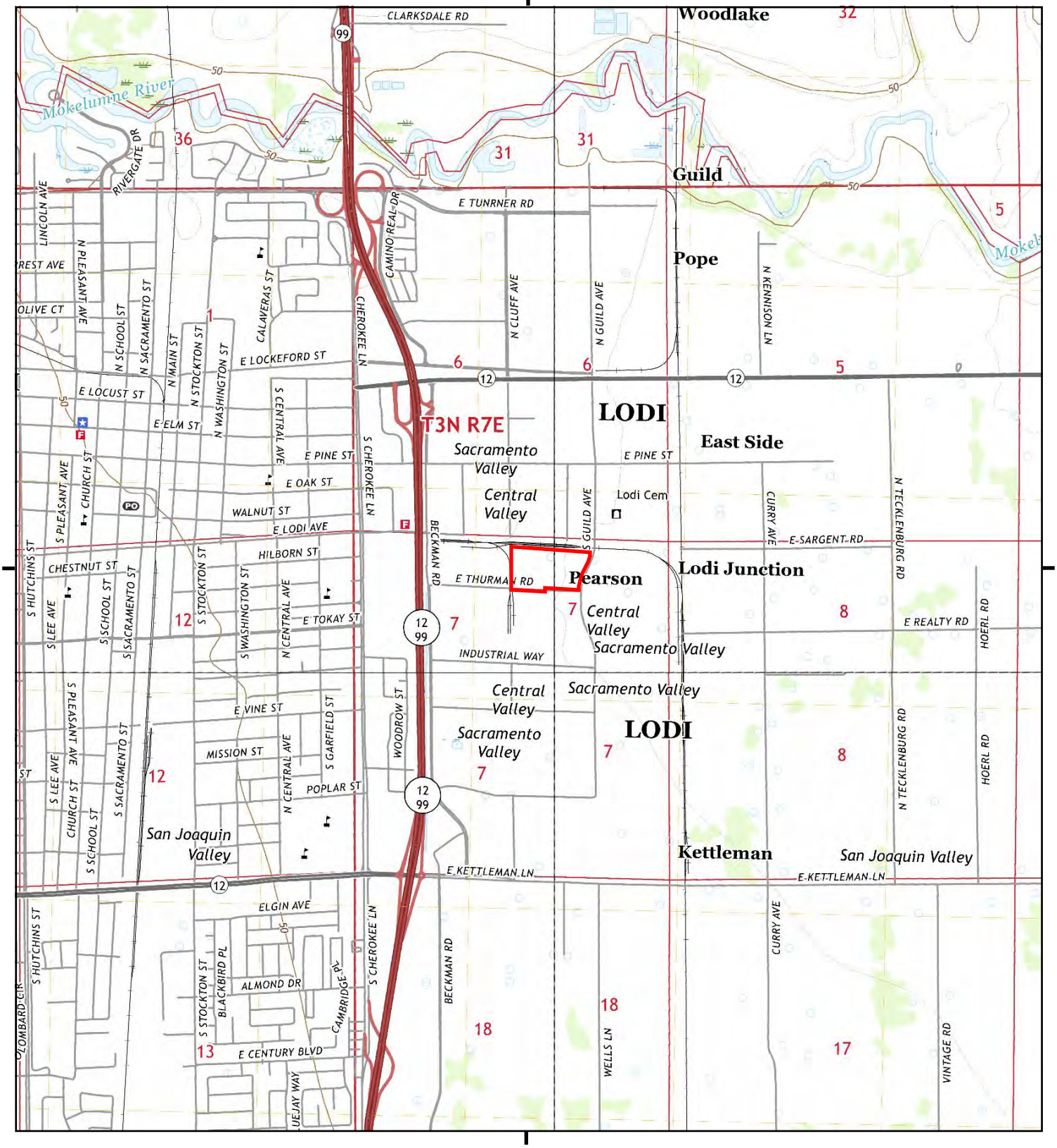
1894 Source Sheets



Lodi
1894
30-minute, 125000

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

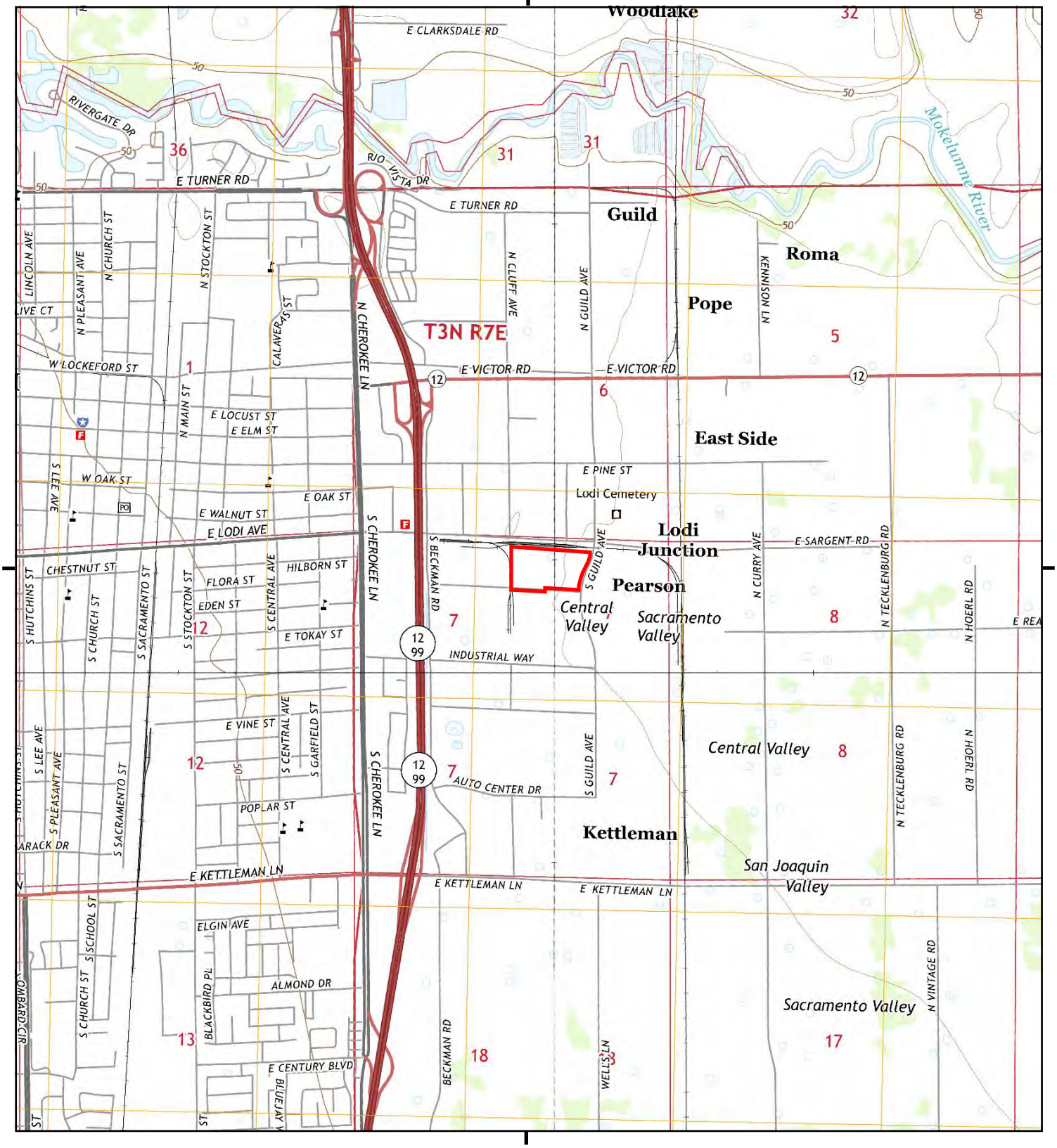
TP, Lodi North, 2018, 7.5-minute
NE, Lockeford, 2018, 7.5-minute
SE, Waterloo, 2018, 7.5-minute
SW, Lodi South, 2018, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

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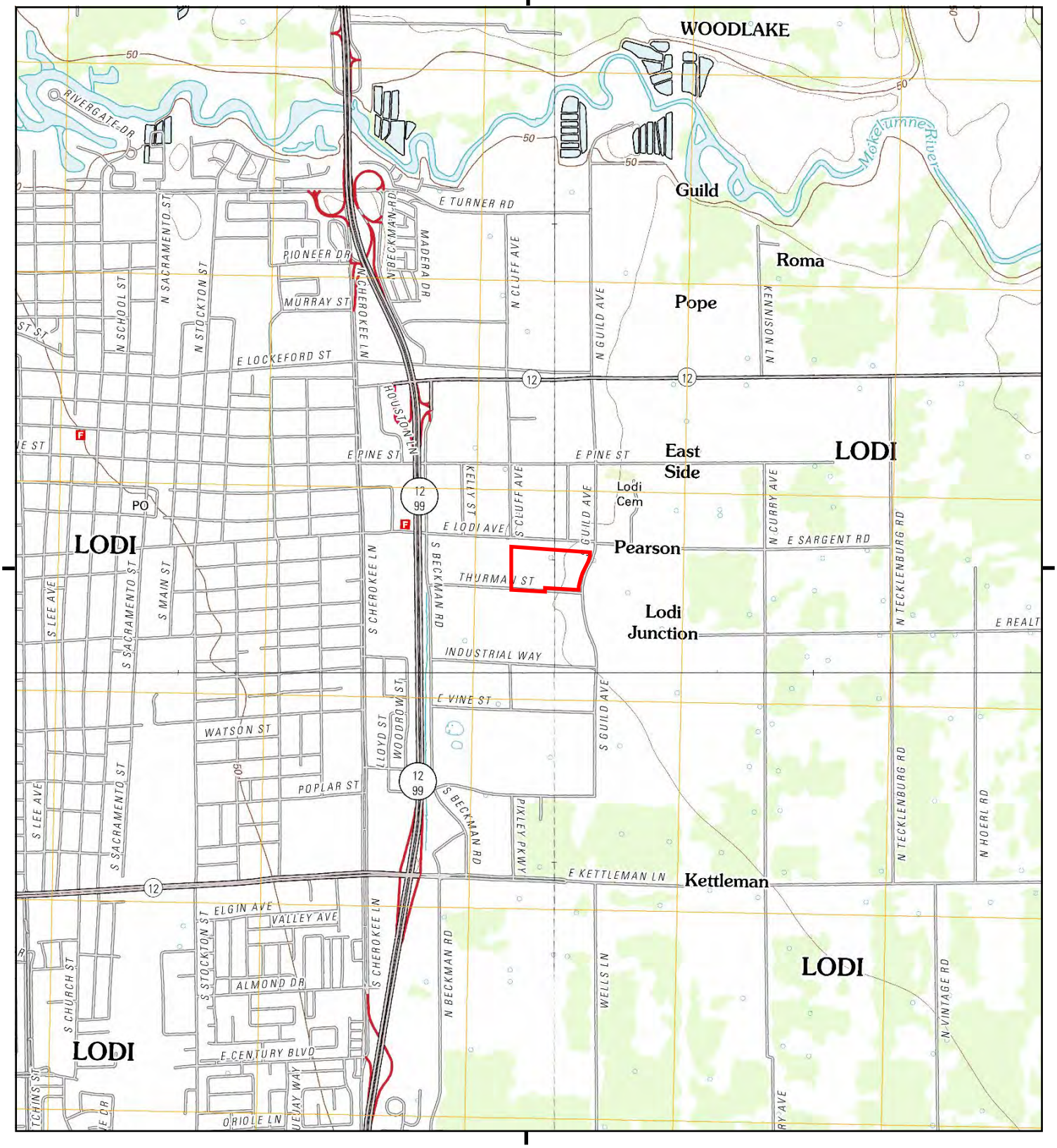
NE, Lockeford, 2015, 7.5-minute
SE, Waterloo, 2015, 7.5-minute
SW, Lodi South, 2015, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N

Historical Topo Map

2012



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W E
SW S SE

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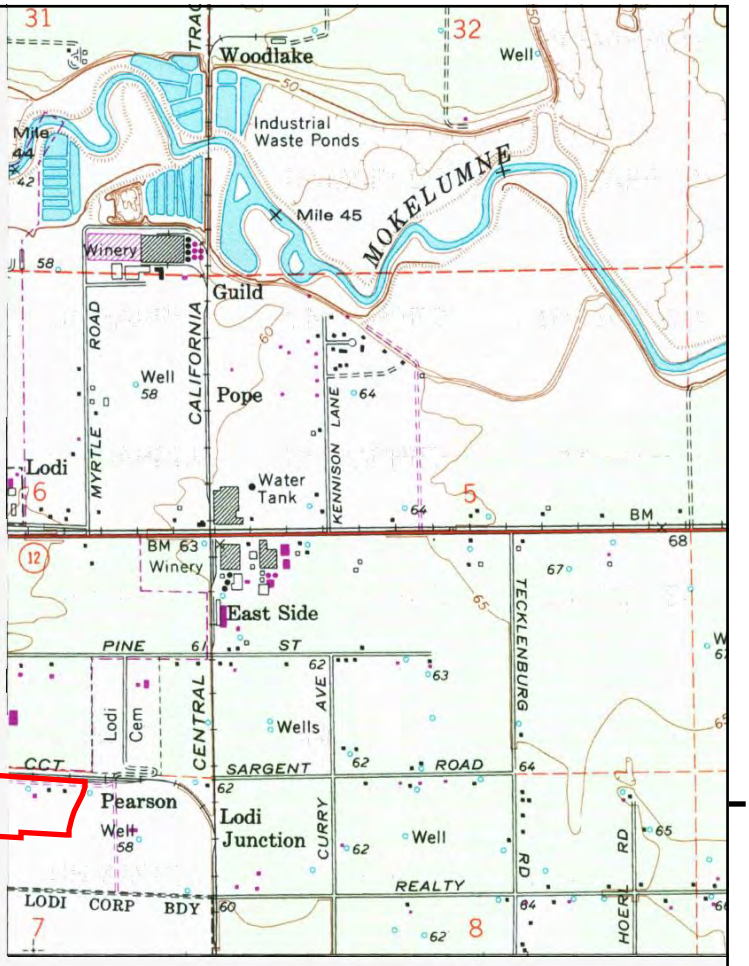
NE, Lockeford, 2012, 7.5-minute
SE, Waterloo, 2012, 7.5-minute
SW, Lodi South, 2012, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

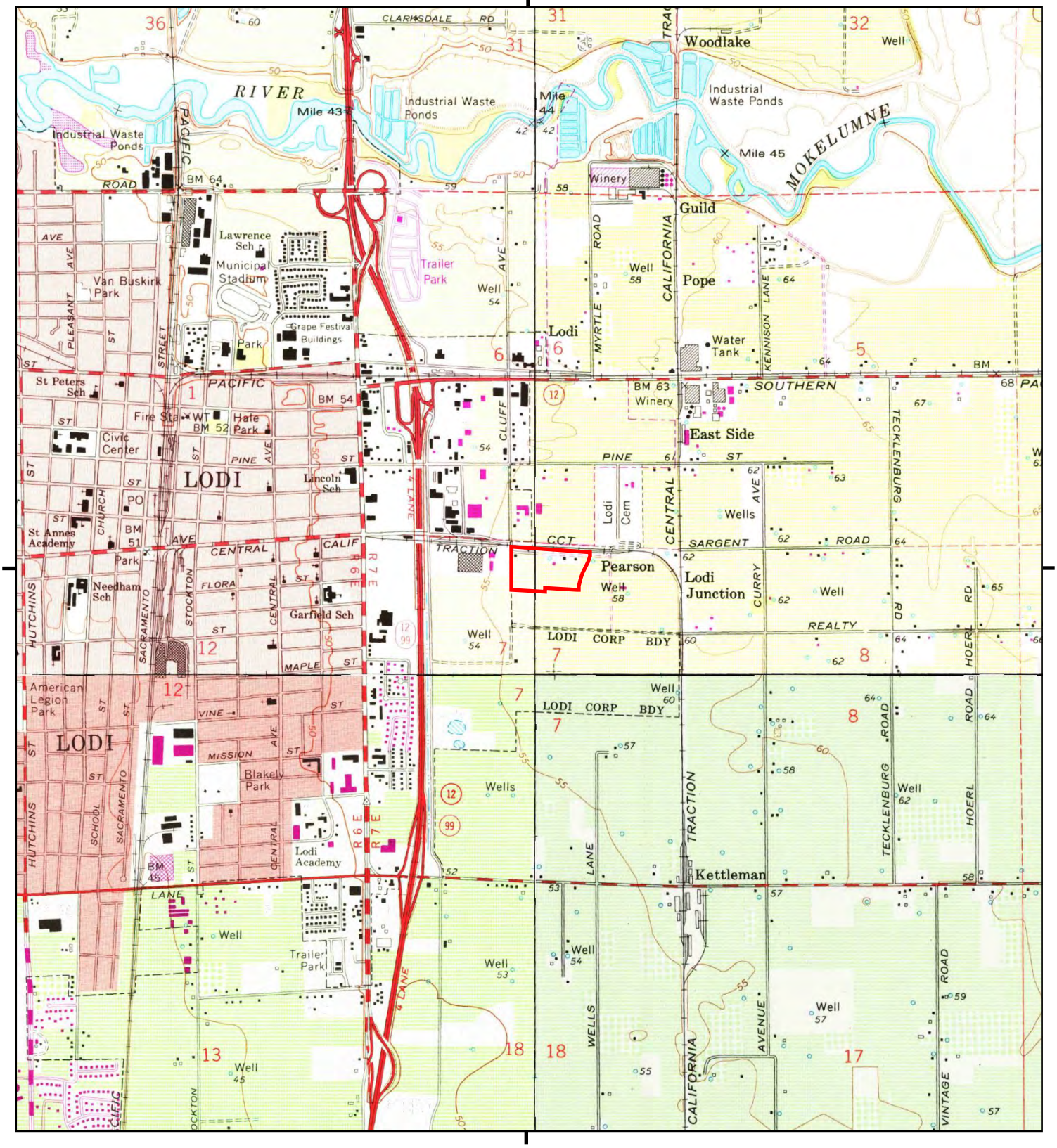
NE, Lockeford, 1993, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N

Historical Topo Map

1976, 1978, 1979



This report includes information from the following map sheet(s).

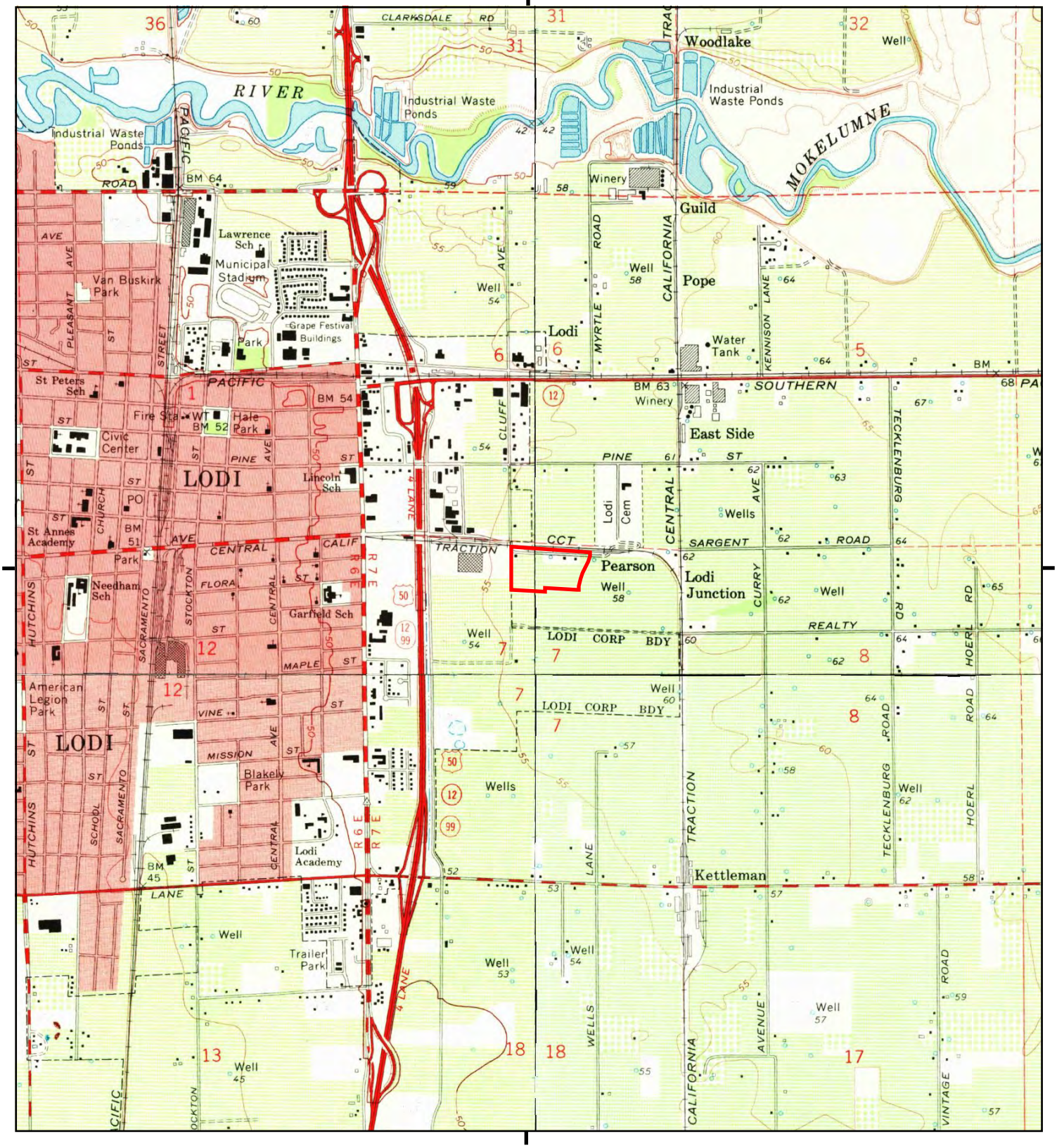
0 Miles 0.25 0.5 1 1.5

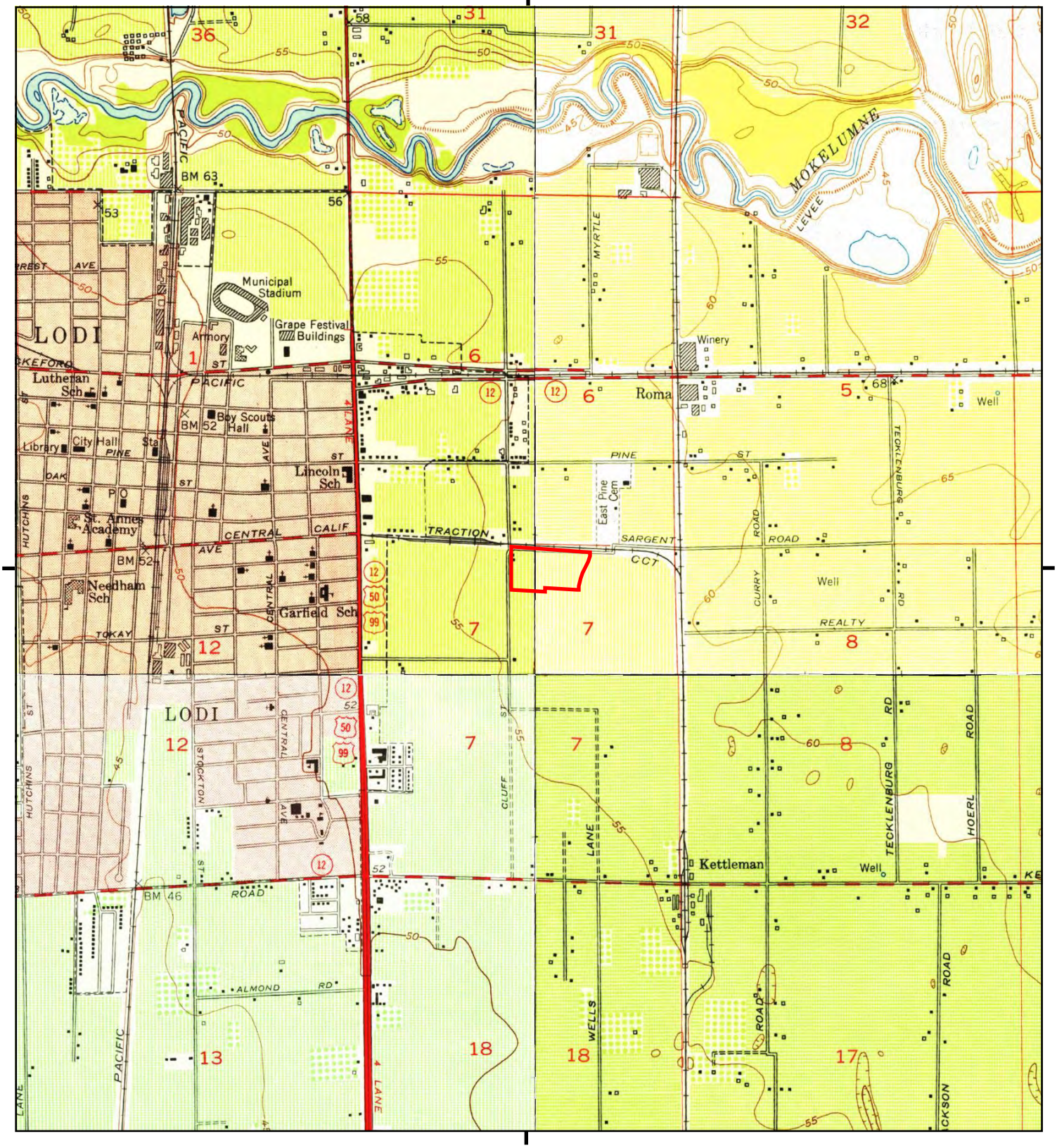
NW N NE
W E
SW S SE

TP, Lodi North, 1976, 7.5-minute
NE, Lockeford, 1979, 7.5-minute
SE, Waterloo, 1978, 7.5-minute
SW, Lodi South, 1976, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N


RIVER
Industrial Waste Ponds
Industrial Waste Ponds
Industrial Waste Ponds
MOKELUMNE
Woodlake
Guild
Pope
Lodi
East Side
Pearson
Lodi Junction
Kettleman
LODI
LODI
Lawrence Sch
Municipal Stadium
Van Buskirk Park
Grape Festival Buildings
Park
St Peters Sch
Fire Sta
Hale Park
Civic Center
Lincoln Sch
St Annes Academy
Needham Sch
Garfield Sch
American Legion Park
Blakely Park
Lodi Academy
Trailer Park
Water Tank
Winery
Winery
Wells
Wells
Wells
Wells
Well
Well
Well



This report includes information from the following map sheet(s).

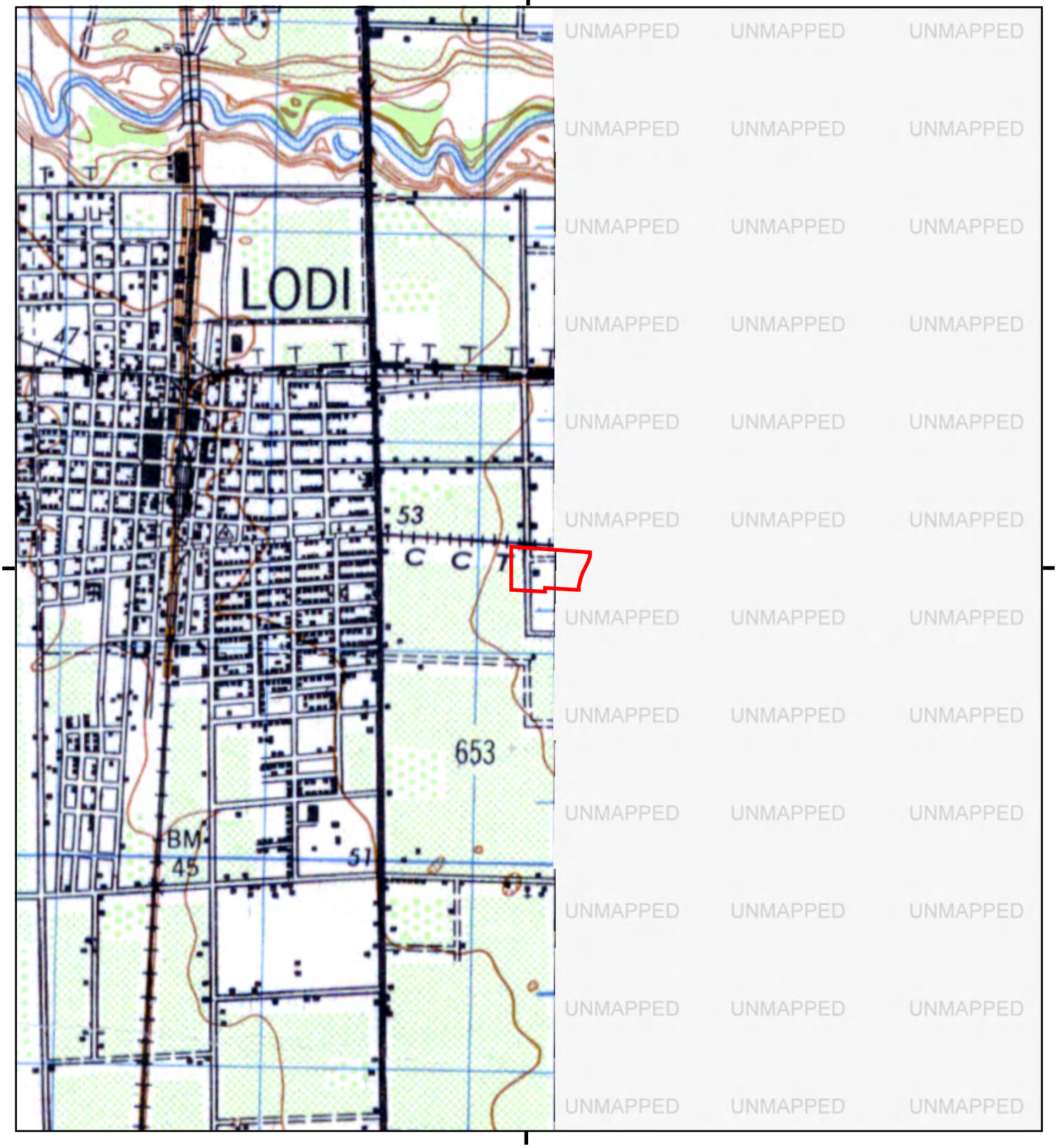
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lodi North, 1953, 7.5-minute
NE, Lockeford, 1953, 7.5-minute
SE, Waterloo, 1953, 7.5-minute
SW, Lodi South, 1953, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N



This report includes information from the following map sheet(s).

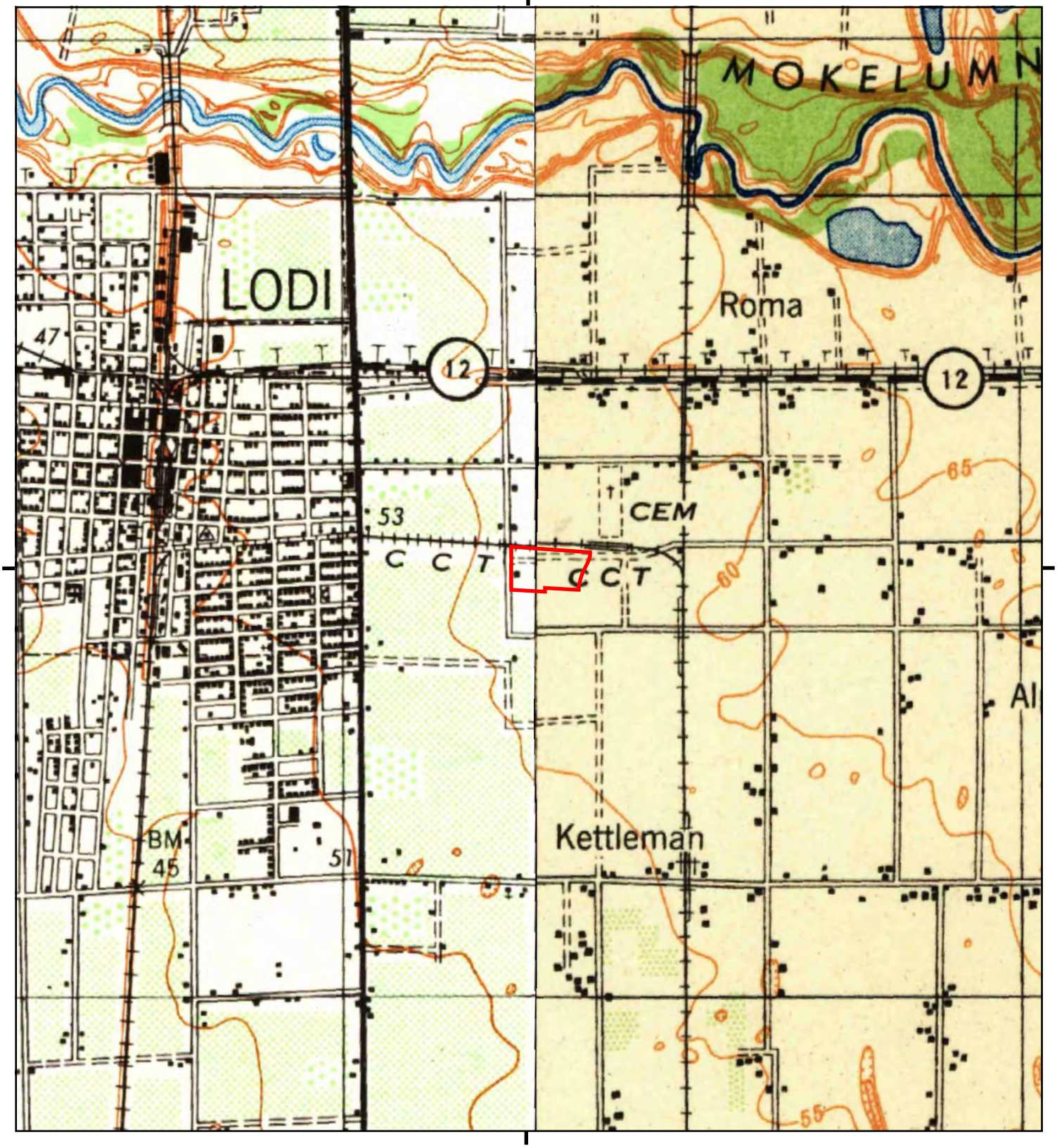
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, LODI, 1947, 15-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

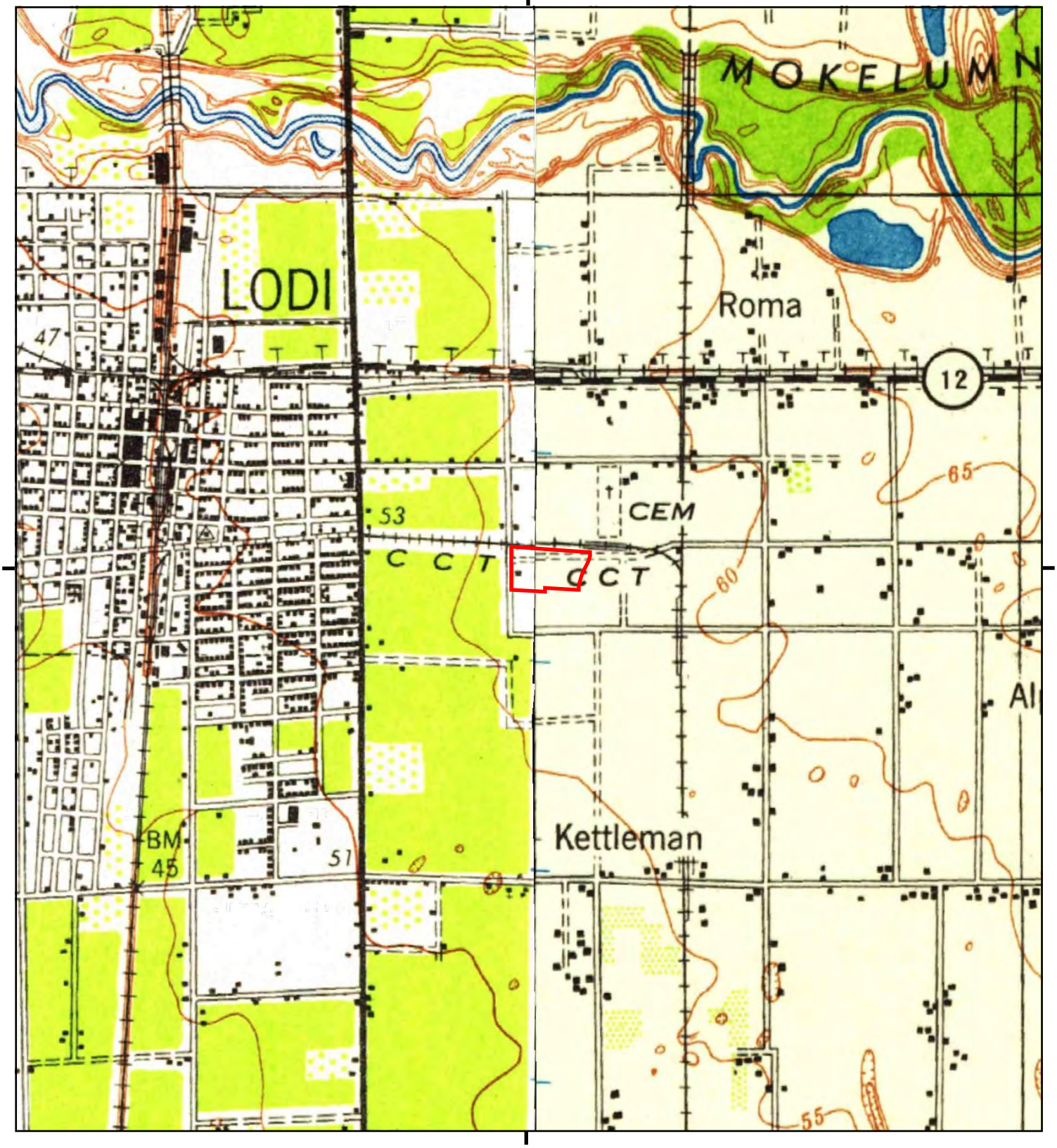
TP, Lodi, 1942, 15-minute
E, Bellota, 1942, 15-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N

Historical Topo Map

1939



This report includes information from the following map sheet(s).

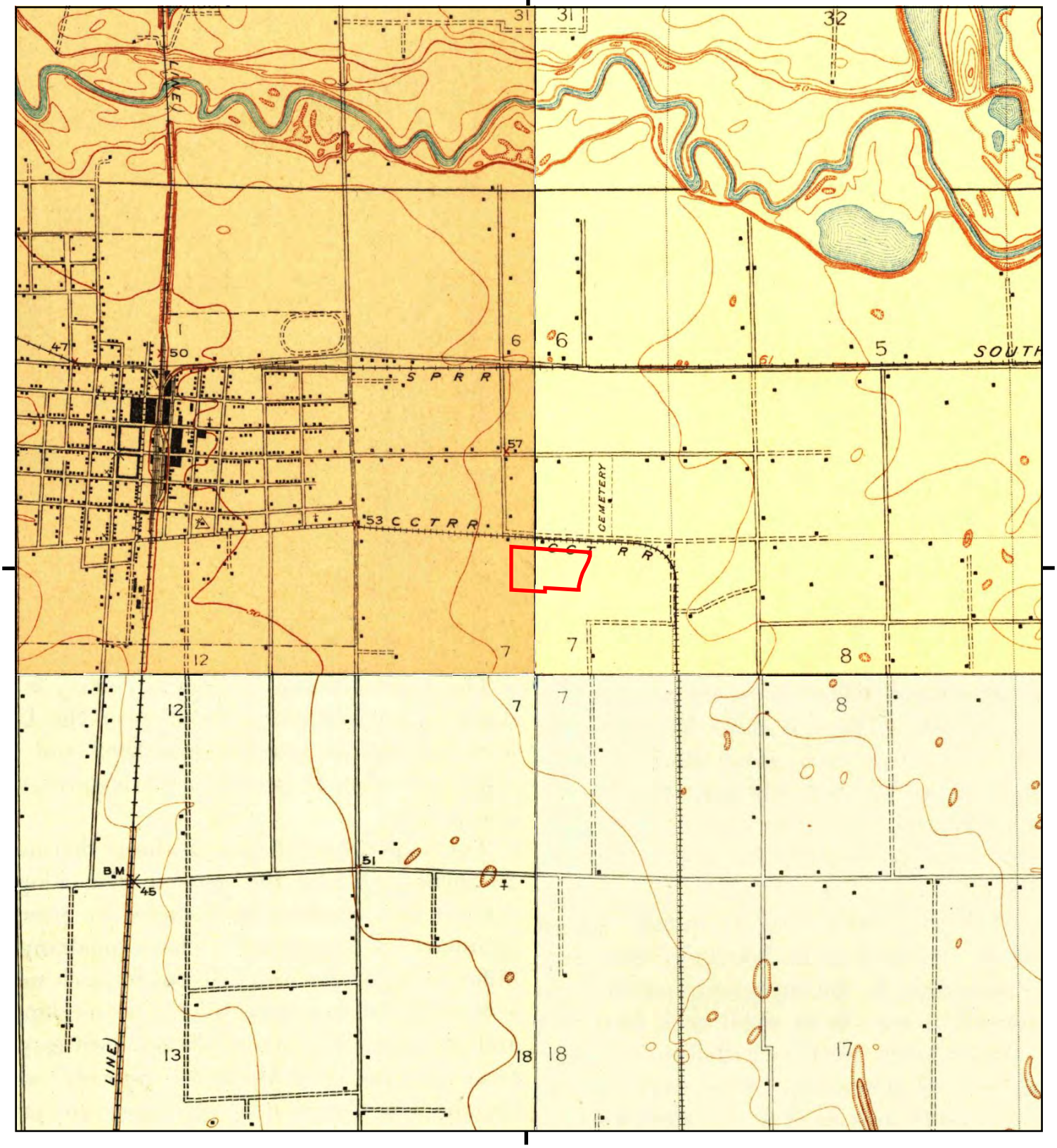
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lodi, 1939, 15-minute
E, Bellota, 1939, 15-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N



This report includes information from the following map sheet(s).

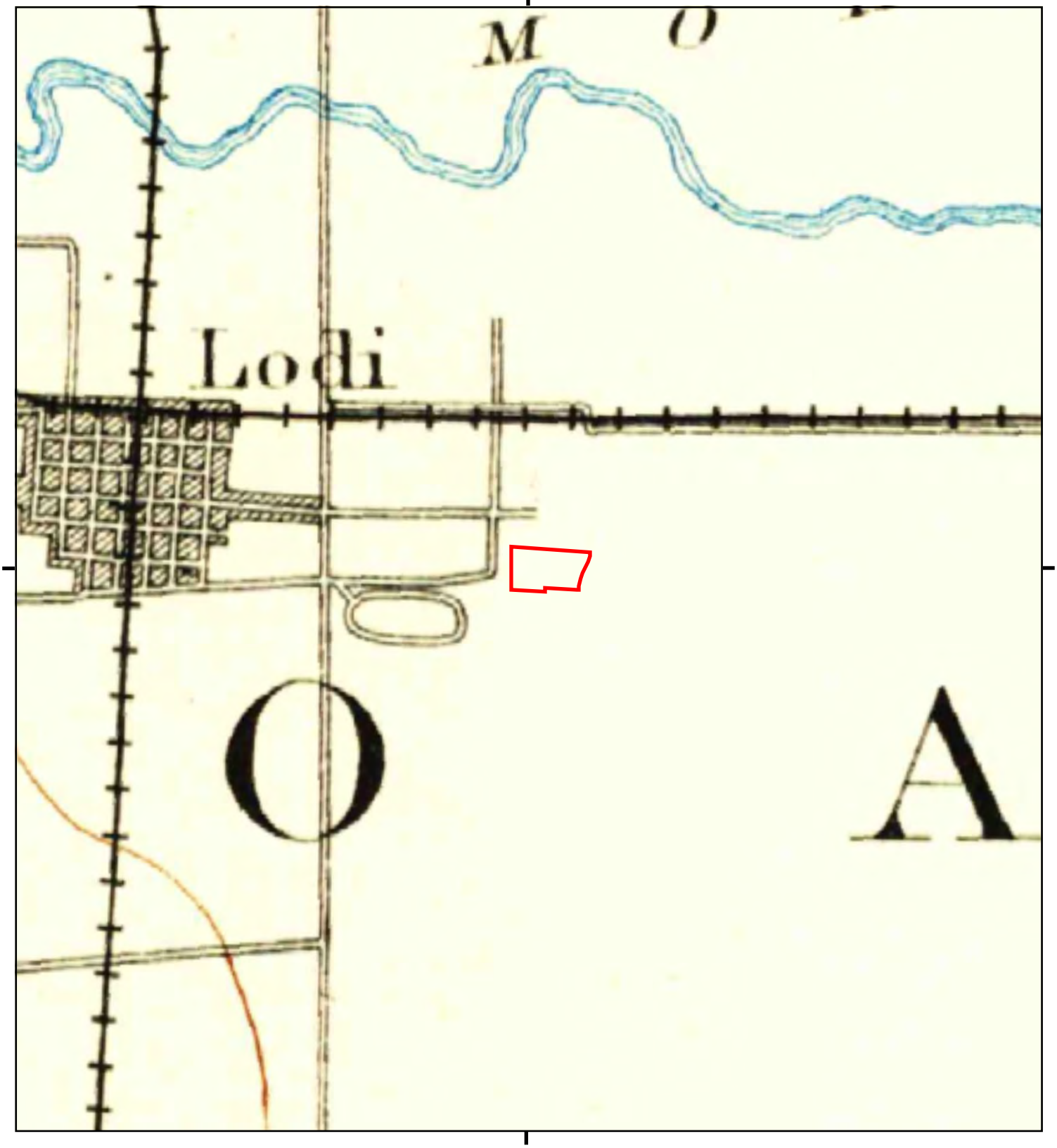
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Woodbridge, 1910, 7.5-minute
NE, Lockeford, 1908, 7.5-minute
SE, Waterloo, 1908, 7.5-minute
SW, Castle, 1910, 7.5-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lodi, 1894, 30-minute

SITE NAME: PG&E Lodi Thurman Substation
ADDRESS: 1215 THURMAN ST
Lodi, CA 95240
CLIENT: ERM - West, Inc.

N

PG&E Lodi Thurman Substation

1215 THURMAN ST

Lodi, CA 95240

Inquiry Number: 7000871.8

May 31, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/31/22

Site Name:

PG&E Lodi Thurman Substatio
1215 THURMAN ST
Lodi, CA 95240
EDR Inquiry # 7000871.8

Client Name:

ERM - West, Inc.
1277 Treat Blvd
Walnut Creek, CA 94597
Contact: Arjun Sarkar

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 08, 1984	USDA
1975	1"=500'	Flight Date: November 08, 1975	Cartwright
1972	1"=500'	Flight Date: September 21, 1972	USGS
1963	1"=500'	Flight Date: June 03, 1963	USDA
1957	1"=500'	Flight Date: July 12, 1957	USDA
1940	1"=500'	Flight Date: May 26, 1940	USDA
1937	1"=500'	Flight Date: August 14, 1937	USDA

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INQUIRY #: 7000871.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 2006
= 500'
N
EDR

UNMAPPED



INQUIRY #: 7000871.8

YEAR: 1998

= 500'

N

EDR


INQUIRY #: 7000871.8
YEAR: 1993
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.


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YEAR: 1984
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 1975
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 1972
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 1957
= 500'
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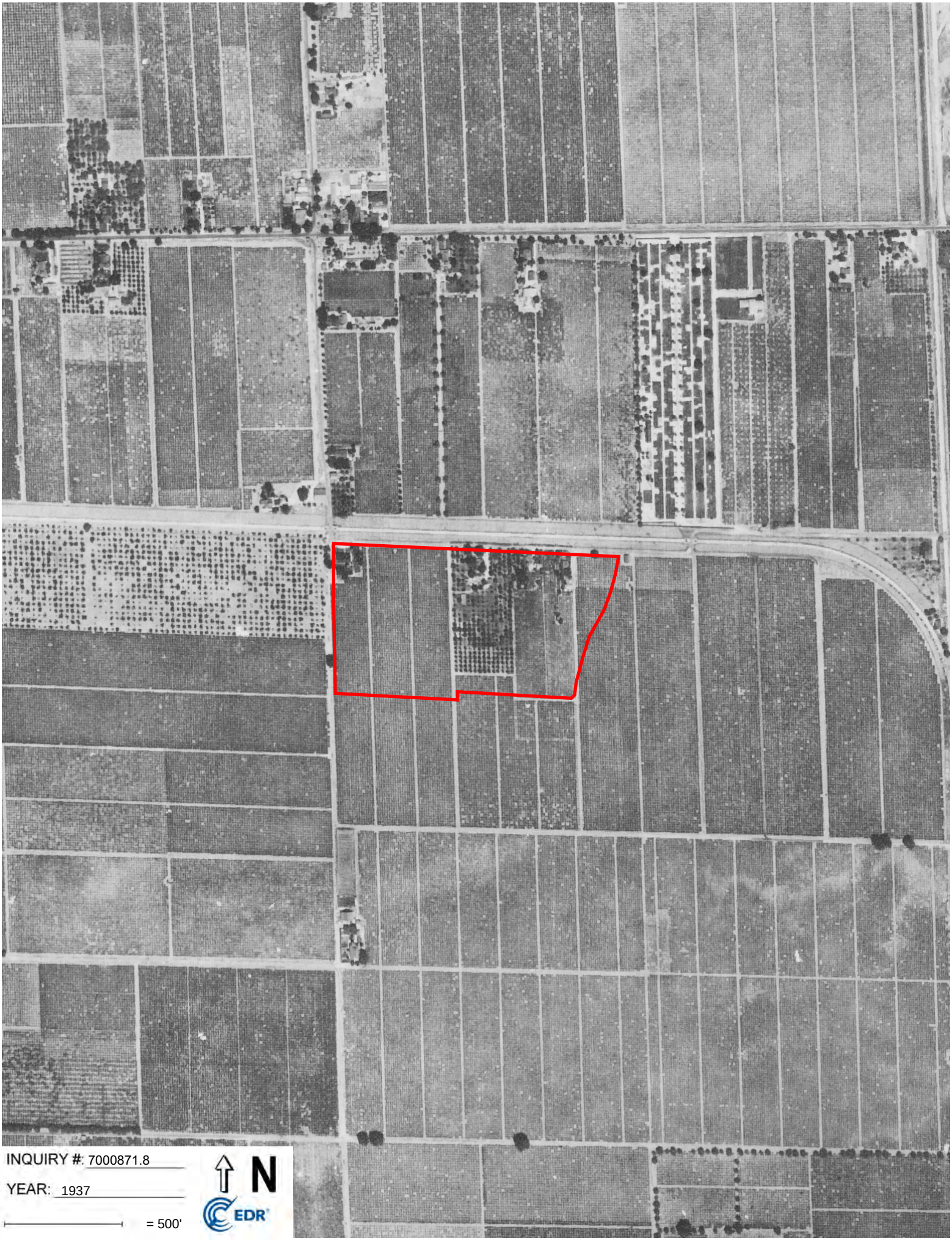
EDR


INQUIRY #: 7000871.8
YEAR: 1940
= 500'
N
EDR


INQUIRY #: 7000871.8
YEAR: 1937
= 500'
N
EDR

PG&E Lodi Thurman Substation

1215 THURMAN ST

Lodi, CA 95240

Inquiry Number: 7000871.3

May 31, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/31/22

Site Name:

PG&E Lodi Thurman Substatio
1215 THURMAN ST
Lodi, CA 95240
EDR Inquiry # 7000871.3

Client Name:

ERM - West, Inc.
1277 Treat Blvd
Walnut Creek, CA 94597
Contact: Arjun Sarkar

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ERM - West, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 68D1-41EF-BAC4

PO # NA

Project PG&E Lodi Thurman Substation

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 68D1-41EF-BAC4

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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PG&E Lodi Thurman Substation
1215 THURMAN ST
Lodi, CA 95240

Inquiry Number: 7000871.5
June 03, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☐	EDR Digital Archive
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1996	☑	☐	POLK DIRECTORY CO
1993	☐	☐	POLK DIRECTORY CO
1988	☐	☐	POLK DIRECTORY CO
1983	☐	☐	POLK DIRECTORY CO
1978	☐	☐	POLK DIRECTORY CO
1973	☐	☐	POLK DIRECTORY CO
1968	☐	☐	POLK DIRECTORY CO
1963	☐	☐	POLK DIRECTORY CO
1959	☐	☐	POLK DIRECTORY CO

EXECUTIVE SUMMARY

Year	*Target Street*	*Cross Street*	*Source*

FINDINGS

TARGET PROPERTY STREET

1215 THURMAN ST
Lodi, CA 95240

Year	*CD Image*	*Source*	
E THURMAN RD			
2000	pg A5	EDR Digital Archive	
THURMAN ST			
2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
1996	pg 0	POLK DIRECTORY CO	Street not listed in Source
1993	-	POLK DIRECTORY CO	Street not listed in Source
1988	-	POLK DIRECTORY CO	Street not listed in Source
1983	-	POLK DIRECTORY CO	Street not listed in Source
1978	-	POLK DIRECTORY CO	Street not listed in Source
1973	-	POLK DIRECTORY CO	Street not listed in Source
1968	-	POLK DIRECTORY CO	Street not listed in Source
1963	-	POLK DIRECTORY CO	Street not listed in Source
1959	-	POLK DIRECTORY CO	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

THURMAN ST 2017

1038 KOEHLER HEATING & AIR CONDITIONING
1150 SWEETENER PRODUCTS
SWEETENER PRODUCTS CO
1250 SCHAEFER SYSTEMS LLC
1310 SCIENTIFIC SPECIALTIES INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

THURMAN ST 2014

1038 KOEHLER HEATING & AIR CONDITIONING
1150 SWEETENER PRODUCTS
SWEETENER PRODUCTS CO
1250 SCHAEFER SYSTEMS LLC
1310 SCIENTIFIC SPECIALTIES INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

THURMAN ST 2010

1038	KOEHLER HEATING & AC
1150	SWEETENER PRODUCTS CO
1250	SCHAEFER SYSTEMS
1310	SCIENTIFIC SPECIALTIES INC
1330	AMERICAN MASTER TECH

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

THURMAN ST 2005

1150 SWEETENER PRODUCTS CO
1250 SCHAEFER SYSTEMS
1310 SCIENTIFIC SPECIALTIES INC
1330 AMERICAN MASTER TECH SCIENTIFIC INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E THURMAN RD 2000

1150 SWEETENER PRODUCTS COMPANY
1250 ARKAY PLASTICS CALIF

APPENDIX C OTHER PERTINENT DOCUMENTS

No Files Exist

APPENDIX D ENVIRONMENTAL REGULATORY DATABASE REPORT

PG&E Lodi Thurman Substation
1215 THURMAN ST
Lodi, CA 95240

Inquiry Number: 7000871.2s
May 31, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Records Searched	PSGR-1

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1215 THURMAN ST
LODI, CA 95240

COORDINATES

Latitude (North):	38.1294860 - 38ˆ 7' 46.14''
Longitude (West):	121.2514080 - 121ˆ 15' 5.06''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	653260.9
UTM Y (Meters):	4221420.0
Elevation:	60 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12021629 LODI NORTH, CA
Version Date:	2018
Northeast Map:	12021627 LOCKEFORD, CA
Version Date:	2018
Southeast Map:	12021665 WATERLOO, CA
Version Date:	2018
Southwest Map:	12021631 LODI SOUTH, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140628
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1215 THURMAN ST
LODI, CA 95240

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CITY OF LODI	1215 THURMAN STREET	FINDS		TP
A2	CALPEAK POWER-MIDWAY	1215 THURMAN ST	HWTS		TP
A3	LODI WATER DIV - WEL	1215 THURMAN ST	CERS		TP
A4	CITY OF LODI	1215 THURMAN ST - WE	EMI		TP
A5	CITY OF LODI - WELL	1215 THURMAN STREET	EMI, CERS		TP
A6	LODI ELECTRIC ENERGY	1215 THURMAN ST	CIWQS		TP
A7	LODI ELEC UTIL	1215 THURMAN ST	CERS		TP
B8	SCHAEFER SYSTEMS INT	1250 E THURMAN RD	HAZNET, NPDES, HWTS	Lower	68, 0.013, South
B9	SCHAEFER SYTEMS LLC	1250 E THURMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	Lower	68, 0.013, South
B10	SCHAEFER SYSTEMS LLC	1250 E THURMAN RD	HAZNET, HWTS	Lower	68, 0.013, South
C11	SCIENTIFIC SPECIALTI	1310 THURMAN ST	HAZNET, HWTS	Lower	109, 0.021, SE
C12	R & L CARRIERS	1330 THURMAN ST	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS	Lower	112, 0.021, ESE
C13	AMERICAN MASTERTECH	1330 THURMAN ST	HAZNET	Lower	112, 0.021, ESE
14	SWEETENER PRODUCTS I	1150 E THURMAN ST	CERS HAZ WASTE, CERS, HWTS	Lower	220, 0.042, SW
D15	LIN DON MACHINING IN	270 COMMERCE ST	HAZNET, HWTS	Higher	301, 0.057, NE
D16	WESTSIDE GARAGE AUTO	226 COMMERCE ST S	EDR Hist Auto	Higher	433, 0.082, NE
D17	DARREN YESCAS DBA EN	200 COMMERCE ST STE	HAZNET, HWTS	Higher	563, 0.107, NE
D18	JOE'S AUTOMOTIVE OF	200 COMMERCE ST STE	HAZNET, HWTS	Higher	563, 0.107, NE
D19	JOES AUTOMOTIVE OF L	200 COMMERCE ST #101	CERS HAZ WASTE, CERS	Higher	563, 0.107, NE
D20	BILL COOK	200 COMMERCE ST	HAZNET, HWTS	Higher	563, 0.107, NE
D21	END OF THE LINE AUTO	200 COMMERCE ST STE	HAZNET, HWTS	Higher	563, 0.107, NE
22	PREMIER FINISHING	903 E LODI AVE	HAZNET, HWTS	Lower	609, 0.115, NW
E23	CERTAINTEED CORP	300 SOUTH BECKMAN RO	RCRA-SQG, SWEEPS UST, HIST UST, CA FID UST, CIWQS	Lower	671, 0.127, West
E24	TRIANGLE PACIFIC COR	300 S BECKMAN RD	UST	Lower	671, 0.127, West
E25	NORTH AMERICAN SPECI	300 S BECKMAN RD	CERS HAZ WASTE, CERS TANKS, CERS	Lower	671, 0.127, West
F26	B&G INDUSTRIES	100 S CLUFF AVE	SEMS-ARCHIVE	Higher	709, 0.134, NNW
F27	B & G INDUSTRIES	100 S CLUFF AVE	ENVIROSTOR	Higher	709, 0.134, NNW
F28	TOKAY VALLEY RECYCLI	60 S CLUFF AVE	SWRCY, NPDES, CERS	Lower	838, 0.159, North
29	GUARANTEE REPAIR SER	101 COMMERCE ST	CERS HAZ WASTE, CERS	Lower	931, 0.176, NNE
G30	HEARTLAND STEEL PROD	213 S KELLY ST	UST	Lower	955, 0.181, NW
G31	LODI METAL TECH,INC	213 SO. KELLY STREET	RCRA-LQG, ENVIROSTOR, LUST, CERS HAZ WASTE, SWEEPS	Lower	955, 0.181, NW
G32	LODI METAL TECH	213 SOUTH KELLY STRE	RGA LUST	Lower	955, 0.181, NW
H33	SHANDS TRUCK REPAIR	885 E LODI AVE STE A	EDR Hist Auto	Lower	956, 0.181, WNW
H34	SHANDS DIESEL TRUCK	885 E LODI AVE A	CERS HAZ WASTE, CERS	Lower	956, 0.181, WNW
35	LUSTRE CAL NAMEPLATE	715 S GUILD AVE	RCRA-SQG, CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	957, 0.181, SE
G36	HEARTLAND STEEL PROD	213 KELLY STREET	RCRA-LQG	Lower	986, 0.187, NW
G37	LODI METAL TECH (CLO	213 KELLY ST S	RGA LUST	Lower	986, 0.187, NW
G38	LODI METAL TECH	213 KELLY ST S	RGA LUST	Lower	986, 0.187, NW
G39	NOBUO KISHIDA	177 SO KELLY ST	HIST UST	Lower	1033, 0.196, NW

MAPPED SITES SUMMARY

Target Property Address:
1215 THURMAN ST
LODI, CA 95240

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	LODI READY MIX	851 LODI AVE E	LUST, Cortese, CERS	Lower	1048, 0.198, WNW
41	PACIFIC COAST PRODUC	650 S GUILD	CERS HAZ WASTE, CERS	Higher	1097, 0.208, ESE
I42	CEPHEID - BUILDING 3	850 THURMAN ST	UST	Lower	1109, 0.210, WSW
I43	CEPHEID - BUILDING 3	850 THURMAN ST	CERS HAZ WASTE, CERS	Lower	1109, 0.210, WSW
I44	ARMOR STRUXX LLC	850 THURMAN ST	UST	Lower	1109, 0.210, WSW
J45	LODI LUMBER CO (CLOS	1025 INDUSTRIAL WAY	RGA LUST	Lower	1125, 0.213, SSW
J46	LODI LUMBER COMPANY	1025 INDUSTRIAL WAY	UST	Lower	1125, 0.213, SSW
J47	LODI LUMBER CO	1025 INDUSTRIAL WAY	RGA LUST	Lower	1125, 0.213, SSW
J48	LODI LUMBER CO	1025 INDUSTRIAL	LUST, HIST UST, HIST CORTESE	Lower	1125, 0.213, SSW
J49	LODI LUMBER COMPANY	1025 INDUSTRIAL WAY	SWEEPS UST, CA FID UST	Lower	1125, 0.213, SSW
J50	LODI LUMBER CO	1025 INDUSTRIAL WAY	LUST, Cortese, CERS	Lower	1125, 0.213, SSW
J51	LODI LUMBER COMPANY	1025 INDUSTRIAL WAY	RGA LUST	Lower	1125, 0.213, SSW
G52	NOBUO KISHIDA	177 KELLY ST	HIST UST	Lower	1133, 0.215, NW
G53	NOBUO KISHIDA	177 KELLY ST	SWEEPS UST, CA FID UST	Lower	1133, 0.215, NW
G54	R&R MCCULLOUGH MOBIL	177 KELLY ST	UST	Lower	1133, 0.215, NW
G55	R&R MCCULLOUGH MOBIL	177 KELLY ST	CERS HAZ WASTE, CERS	Lower	1133, 0.215, NW
K56	WESTERN RADIATOR SVC	12 S CLUFF AVE	CERS HAZ WASTE, CERS	Lower	1159, 0.220, North
J57	HONDAS PLUS	922 #K INDUSTRIAL WA	RCRA-SQG, FINDS, ECHO	Lower	1170, 0.222, South
H58	KNIFE RIVER LODI PLA	851 E LODI AVE	CERS HAZ WASTE, CERS	Lower	1207, 0.229, WNW
H59	LODI READY MIX & BUI	851 E LODI AVE	HIST UST, HIST CORTESE	Lower	1207, 0.229, WNW
H60	LODI READY MIX	851 EAST LODI AVENUE	RGA LUST	Lower	1207, 0.229, WNW
H61	LODI READY MIX & BLD	851 E LODI AVE	UST	Lower	1207, 0.229, WNW
H62	LODI READY MIX & BLD	851 E LODI AVE	SWEEPS UST, HIST UST, CA FID UST, EMI, WDS, CERS	Lower	1207, 0.229, WNW
K63	PRIMA-CAST & MFG INC	1220 E PINE ST	SWEEPS UST, HIST UST, CA FID UST	Lower	1241, 0.235, North
K64	PRIMA-CAST & MFG. IN	1220 E PINE ST	HIST UST	Lower	1241, 0.235, North
K65	PRIMA-CAST & MFG INC	1220 E PINE ST	UST	Lower	1241, 0.235, North
J66	MILLER PACKING CO	1122 INDUSTRIAL WAY	CERS HAZ WASTE, NPDES, CERS	Lower	1248, 0.236, SSW
K67	E F KLUDT & SONS, IN	1126 E PINE ST	HIST UST	Lower	1255, 0.238, NNW
K68	E F KLUDT AND SONS I	1126 E PINE STREET	HIST UST, HAZNET, HWTS	Lower	1255, 0.238, NNW
K69	E F KLUDT & SONS INC	1126 E PINE ST	AST, CERS HAZ WASTE, CERS TANKS, HAZNET, CERS,...	Lower	1255, 0.238, NNW
K70	E F KLUDT & SONS INC	1126 E PINE ST	UST	Lower	1255, 0.238, NNW
K71	E.F. KLUDT & SONS, I	1126 E PINE ST	SWEEPS UST, CA FID UST, EMI, CERS	Lower	1255, 0.238, NNW
K72	E F KLUDT & SONS INC	1126 E PINE ST	UST	Lower	1255, 0.238, NNW
L73	GRIFFIN/SLATE TOWN R	1350 E PINE ST	SWEEPS UST, CA FID UST	Lower	1283, 0.243, NNE
L74	GRIFFIN/SLATE TOWN R	1350 E PINE ST	UST	Lower	1283, 0.243, NNE
J75	CREATIVE IMAGE AUTO	1024 INDUSTRIAL WY U	EMI, MWMP	Lower	1287, 0.244, SSW
M76	FORMER LUMBER DISTRI	1240 E PINE ST	HIST UST	Lower	1296, 0.245, North
M77	R & L GRIFFIN	1240 E PINE ST	UST	Lower	1296, 0.245, North
M78	R & L GRIFFIN	1240 E PINE ST	SWEEPS UST, HIST UST, CA FID UST	Lower	1296, 0.245, North

MAPPED SITES SUMMARY

Target Property Address:
1215 THURMAN ST
LODI, CA 95240

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
79	JIM THORPE OIL INC	351 BECKMAN RD	UST	Lower	1316, 0.249, West
80	S.J. MOSQUITO ABATEM	200 BECKMAN	LUST, Cortese, HIST CORTESE, CERS	Lower	1441, 0.273, WNW
N81	PINKERTON FOUNDRY	32 N CLUFF	ENVIROSTOR, EMI	Lower	1484, 0.281, North
N82	AMERICAN DUTCH FOUND	42 CLUFF	LUST, Cortese, HIST CORTESE, CERS	Lower	1592, 0.302, North
83	LUSD TRANSPORTATION	820 CLUFF	LUST, Cortese, HIST CORTESE, CERS	Lower	1641, 0.311, South
O84	CAL TRANS LODI MAINT	845 PINE ST E	LUST, Cortese, CERS	Lower	1695, 0.321, NW
N85	PINKERTON FOUNDRY	42 NORTH CLUFF AVENU	RGA LUST	Lower	1749, 0.331, North
O86	CAL TRANS LODI MAINT	845 EAST PINE	RGA LUST	Lower	1797, 0.340, NW
P87	PART CONTAINER CORP	1400 VICTOR RD	RGA LUST	Higher	2012, 0.381, NE
P88	PART CONTAINER CORP	1400 VICTOR	LUST, CHMIRS, Cortese, HIST CORTESE, CERS	Higher	2012, 0.381, NE
89	MATAGA OLDS, BUICK	880 BECKMAN	LUST, Cortese, HIST CORTESE, CERS	Lower	2131, 0.404, SW
Q90	DON KELLER TRUCKING	940 VICTOR	LUST, Cortese, HIST CORTESE, CERS	Lower	2208, 0.418, NNW
Q91	DON KELLER TRUCKING	940 VICTOR RD	RGA LUST	Lower	2208, 0.418, NNW
R92	TERESI TRUCKING	900 1/2 VICTOR RD	RGA LUST	Lower	2256, 0.427, NNW
R93	TERESI TRUCKING	900-1/2 VICTOR RD	RGA LUST	Lower	2256, 0.427, NNW
R94	TERESI TRUCKING	900-1/2 VICTOR RD E	RGA LUST	Lower	2256, 0.427, NNW
R95	TERESI TRUCKING LLC	900 1/2 VICTOR ROAD	RCRA-LQG, LUST, SWEEPS UST, FINDS, ECHO, Cortese,...	Lower	2256, 0.427, NNW
R96	S.J. MOSQUITO ABATEM	200 NORTH BECKMAN RO	RGA LUST	Lower	2339, 0.443, NNW
S97	RIGHTWAY INCORPORATE	200 CHEROKEE LN ROAD	LUST, Cortese, CERS	Lower	2374, 0.450, WNW
T98	CHEROKEE SERVICE CEN	303 CHEROKEE LN S	LUST, Cortese, CERS	Lower	2386, 0.452, WNW
S99	ARCO #0760	225 CHEROKEE LN S	LUST, Cortese, CERS	Lower	2423, 0.459, WNW
S100	ARCO STATION #760	225 SOUTH CHEROKEE L	RGA LUST	Lower	2463, 0.466, WNW
T101	CHEROKEE SERVICE CEN	303 SOUTH CHEROKEE	RGA LUST	Lower	2506, 0.475, West
102	LODI DOOR INC	1220 VICTOR RD	RCRA-SQG, ENVIROSTOR, FINDS, ECHO	Lower	2558, 0.484, North
U103	ROBERTS PETROLEUM SE	930 E VICTOR RD	LUST, CPS-SLIC, SWEEPS UST, CA FID UST, Cortese,...	Lower	2579, 0.488, NNW
U104	ROBERTS PETROLEUM SE	930 VICTOR RD E	RGA LUST	Lower	2579, 0.488, NNW
U105	ROBERTS PETROLEUM SE	930 VICTOR RD E	RGA LUST	Lower	2579, 0.488, NNW
U106	ROBERTS PETROLEUM SE	930 EAST VICTOR ROAD	RGA LUST	Lower	2579, 0.488, NNW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CITY OF LODI 1215 THURMAN STREET LODI, CA 95240	FINDS Registry ID:: 110038028746	N/A
CALPEAK POWER-MIDWAY 1215 THURMAN ST LODI, CA 95240	HWTS	N/A
LODI WATER DIV - WEL 1215 THURMAN ST LODI, CA 95240	CERS	N/A
CITY OF LODI 1215 THURMAN ST - WE LODI, CA 95240	EMI Facility Id: 3863	N/A
CITY OF LODI - WELL 1215 THURMAN STREET LODI, CA 94603	EMI Facility Id: 3863 CERS	N/A
LODI ELECTRIC ENERGY 1215 THURMAN ST LODI, CA 95240	CIWQS	N/A
LODI ELEC UTIL 1215 THURMAN ST LODI, CA 95240	CERS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ---------- State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Properties

INDIAN VCP ---- Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register
PFAS ---- PFAS Contamination Site Location Listing
AQUEOUS FOAM ---- Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

CA FID UST ---- Facility Inventory Database

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators / No Longer Regulated
FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites

EXECUTIVE SUMMARY

SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)

EXECUTIVE SUMMARY

WDR ---------- Waste Discharge Requirements Listing
NON-CASE INFO ---------- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---------- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---------- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---------- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---------- Well Stimulation Project (GEOTRACKER)
MINES MRDS ---------- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/25/2022 has revealed that there

is 1 SEMS-ARCHIVE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
B&G INDUSTRIES Site ID: 0900114 EPA Id: CAD982359184	100 S CLUFF AVE	NNW 1/8 - 1/4 (0.134 mi.)	F26	182

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/28/2022 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LODI METAL TECH,INC EPA ID:: CAD981369994	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.181 mi.)***	***G31***	***225***
HEARTLAND STEEL PROD EPA ID:: CAL000361178	213 KELLY STREET	NW 1/8 - 1/4 (0.187 mi.)	G36	417

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/28/2022 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LUSTRE CAL NAMEPLATE EPA ID:: CAR000154922	***715 S GUILD AVE***	***SE 1/8 - 1/4 (0.181 mi.)***	***35***	***347***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CERTAINTEED CORP EPA ID:: CAD094881067	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.127 mi.)***	***E23***	***166***
HONDAS PLUS EPA ID:: CAD982474686	***922 #K INDUSTRIAL WA***	***S 1/8 - 1/4 (0.222 mi.)***	***J57***	***463***

EXECUTIVE SUMMARY

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/24/2022 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
B & G INDUSTRIES Facility Id: 39240005 Status: No Further Action	100 S CLUFF AVE	NNW 1/8 - 1/4 (0.134 mi.)	F27	183

Lower Elevation	Address	Direction / Distance	Map ID	Page
LODI METAL TECH,INC Facility Id: 39340005 Status: Refer: Other Agency	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.181 mi.)***	***G31***	***225***
PINKERTON FOUNDRY Facility Id: 39330006 Status: Refer: Other Agency	***32 N CLUFF***	***N 1/4 - 1/2 (0.281 mi.)***	***N81***	***563***
LODI DOOR INC Facility Id: 39340006 Status: Refer: RCRA	***1220 VICTOR RD***	***N 1/4 - 1/2 (0.484 mi.)***	***102***	***631***

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 16 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PART CONTAINER CORP Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 05/23/2022 Status: Completed - Case Closed Status: Case Closed Global Id: T0607700681	***1400 VICTOR***	***NE 1/4 - 1/2 (0.381 mi.)***	***P88***	***573***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LODI METAL TECH,INC Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 05/23/2022	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.181 mi.)***	***G31***	***225***

Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700150

LODI READY MIX ***851 LODI AVE E*** ***WNW 1/8 - 1/4 (0.198 mi.)*** ***H40*** ***423***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700362

LODI LUMBER CO ***1025 INDUSTRIAL*** ***SSW 1/8 - 1/4 (0.213 mi.)*** ***J48*** ***442***
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Global Id: T0607700396

LODI LUMBER CO ***1025 INDUSTRIAL WAY*** ***SSW 1/8 - 1/4 (0.213 mi.)*** ***J50*** ***445***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Status: Case Closed

S.J. MOSQUITO ABATEM ***200 BECKMAN*** ***WNW 1/4 - 1/2 (0.273 mi.)*** ***80*** ***560***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700152

AMERICAN DUTCH FOUND ***42 CLUFF*** ***N 1/4 - 1/2 (0.302 mi.)*** ***N82*** ***564***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700223

LUSD TRANSPORTATION ***820 CLUFF*** ***S 1/4 - 1/2 (0.311 mi.)*** ***83*** ***567***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700460

CAL TRANS LODI MAINT ***845 PINE ST E*** ***NW 1/4 - 1/2 (0.321 mi.)*** ***O84*** ***569***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700365

MATAGA OLDS, BUICK ***880 BECKMAN*** ***SW 1/4 - 1/2 (0.404 mi.)*** ***89*** ***577***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700497

DON KELLER TRUCKING ***940 VICTOR*** ***NNW 1/4 - 1/2 (0.418 mi.)*** ***Q90*** ***580***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700731

TERESI TRUCKING LLC ***900 1/2 VICTOR ROAD*** ***NNW 1/4 - 1/2 (0.427 mi.)*** ***R95*** ***585***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022

Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700727

RIGHTWAY INCORPORATE ***200 CHEROKEE LN ROAD*** ***WNW 1/4 - 1/2 (0.450 mi.)*** ***S97*** ***621***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700852

CHEROKEE SERVICE CEN ***303 CHEROKEE LN S*** ***WNW 1/4 - 1/2 (0.452 mi.)*** ***T98*** ***623***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700209

ARCO #0760 ***225 CHEROKEE LN S*** ***WNW 1/4 - 1/2 (0.459 mi.)*** ***S99*** ***625***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Post remedial action monitoring
Global Id: T0607700245

ROBERTS PETROLEUM SE ***930 E VICTOR RD*** ***NNW 1/4 - 1/2 (0.488 mi.)*** ***U103*** ***636***
Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700678

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 13 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRIANGLE PACIFIC COR Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0005948	300 S BECKMAN RD	W 1/8 - 1/4 (0.127 mi.)	E24	177
HEARTLAND STEEL PROD Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Tank Status: 02 - Inactive, non-billable Facility Id: FA0000696	213 S KELLY ST	NW 1/8 - 1/4 (0.181 mi.)	G30	223
CEPHEID - BUILDING 3 Database: UST, Date of Government Version: 12/06/2021	850 THURMAN ST	WSW 1/8 - 1/4 (0.210 mi.)	I42	433
ARMOR STRUXX LLC Database: UST, Date of Government Version: 12/06/2021	850 THURMAN ST	WSW 1/8 - 1/4 (0.210 mi.)	I44	439
LODI LUMBER COMPANY Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018	1025 INDUSTRIAL WAY	SSW 1/8 - 1/4 (0.213 mi.)	J46	439

Tank Status: 02 - Inactive, non-billable
Facility Id: FA0005443

R&R MCCULLOUGH MOBIL | 177 KELLY ST | NW 1/8 - 1/4 (0.215 mi.) | G54 | 448
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Facility Id: FA0005377

LODI READY MIX & BLD | 851 E LODI AVE | WNW 1/8 - 1/4 (0.229 mi.) | H61 | 474
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Facility Id: FA0005447

PRIMA-CAST & MFG INC | 1220 E PINE ST | N 1/8 - 1/4 (0.235 mi.) | K65 | 484
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Facility Id: FA0006151

E F KLUDT & SONS INC | 1126 E PINE ST | NNW 1/8 - 1/4 (0.238 mi.) | K70 | 539
Database: UST, Date of Government Version: 12/06/2021

E F KLUDT & SONS INC | 1126 E PINE ST | NNW 1/8 - 1/4 (0.238 mi.) | K72 | 550
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Tank Status: 01 - Active, billable
Facility Id: FA0003771

GRIFFIN/SLATE TOWN R | 1350 E PINE ST | NNE 1/8 - 1/4 (0.243 mi.) | L74 | 554
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Facility Id: FA0005253

R & L GRIFFIN | 1240 E PINE ST | N 1/8 - 1/4 (0.245 mi.) | M77 | 557
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018
Tank Status: 02 - Inactive, non-billable
Facility Id: FA0005756

JIM THORPE OIL INC | 351 BECKMAN RD | W 1/8 - 1/4 (0.249 mi.) | 79 | 559
Database: UST, Date of Government Version: 12/06/2021
Facility Id: FA0003773

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 12/06/2021 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOKAY VALLEY RECYCLI	***60 S CLUFF AVE***	***N 1/8 - 1/4 (0.159 mi.)***	***F28***	***184***
Cert Id: RC14663				

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/18/2022 has revealed that there are 16 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOES AUTOMOTIVE OF L	*200 COMMERCE ST #101*	*NE 0 - 1/8 (0.107 mi.)*	*D19*	*144*
LUSTRE CAL NAMEPLATE	*715 S GUILD AVE*	*SE 1/8 - 1/4 (0.181 mi.)*	*35*	*347*
PACIFIC COAST PRODUC	*650 S GUILD*	*ESE 1/8 - 1/4 (0.208 mi.)*	*41*	*426*

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHAEFER SYTEMS LLC	*1250 E THURMAN RD*	*S 0 - 1/8 (0.013 mi.)*	*B9*	*25*
R & L CARRIERS	*1330 THURMAN ST*	*ESE 0 - 1/8 (0.021 mi.)*	*C12*	*118*
SWEETENER PRODUCTS I	*1150 E THURMAN ST*	*SW 0 - 1/8 (0.042 mi.)*	*14*	*132*
NORTH AMERICAN SPECI	*300 S BECKMAN RD*	*W 1/8 - 1/4 (0.127 mi.)*	*E25*	*178*
GUARANTEE REPAIR SER	*101 COMMERCE ST*	*NNE 1/8 - 1/4 (0.176 mi.)*	*29*	*217*
LODI METAL TECH,INC	*213 SO. KELLY STREET*	*NW 1/8 - 1/4 (0.181 mi.)*	*G31*	*225*
SHANDS DIESEL TRUCK	*885 E LODI AVE A*	*WNW 1/8 - 1/4 (0.181 mi.)*	*H34*	*339*
CEPHEID - BUILDING 3	*850 THURMAN ST*	*WSW 1/8 - 1/4 (0.210 mi.)*	*I43*	*433*
R&R MCCULLOUGH MOBIL	*177 KELLY ST*	*NW 1/8 - 1/4 (0.215 mi.)*	*G55*	*449*
WESTERN RADIATOR SVC	*12 S CLUFF AVE*	*N 1/8 - 1/4 (0.220 mi.)*	*K56*	*457*
KNIFE RIVER LODI PLA	*851 E LODI AVE*	*WNW 1/8 - 1/4 (0.229 mi.)*	*H58*	*466*
MILLER PACKING CO	*1122 INDUSTRIAL WAY*	*SSW 1/8 - 1/4 (0.236 mi.)*	*J66*	*484*
E F KLUDT & SONS INC	*1126 E PINE ST*	*NNW 1/8 - 1/4 (0.238 mi.)*	*K69*	*498*

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 9 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CERTAINTEED CORP Comp Number: 2347	*300 SOUTH BECKMAN RO*	*W 1/8 - 1/4 (0.127 mi.)*	*E23*	*166*
LODI METAL TECH,INC Comp Number: 2131	*213 SO. KELLY STREET*	*NW 1/8 - 1/4 (0.181 mi.)*	*G31*	*225*
LODI LUMBER COMPANY Comp Number: 1339	*1025 INDUSTRIAL WAY*	*SSW 1/8 - 1/4 (0.213 mi.)*	*J49*	*444*
NOBUO KISHIDA Comp Number: 1340	*177 KELLY ST*	*NW 1/8 - 1/4 (0.215 mi.)*	*G53*	*447*
LODI READY MIX & BLD	*851 E LODI AVE*	*WNW 1/8 - 1/4 (0.229 mi.)*	*H62*	*475*

Comp Number: 1359				
PRIMA-CAST & MFG INC	***1220 E PINE ST***	***N 1/8 - 1/4 (0.235 mi.)***	***K63***	***482***
Comp Number: 2012				
E.F. KLUDT & SONS, I	***1126 E PINE ST***	***NNW 1/8 - 1/4 (0.238 mi.)***	***K71***	***540***
Status: A				
Tank Status: A				
Comp Number: 1364				
GRIFFIN/SLATE TOWN R	***1350 E PINE ST***	***NNE 1/8 - 1/4 (0.243 mi.)***	***L73***	***553***
Comp Number: 4116				
R & L GRIFFIN	***1240 E PINE ST***	***N 1/8 - 1/4 (0.245 mi.)***	***M78***	***558***
Comp Number: 1853				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 13 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CERTAINTEED CORP	***300 SOUTH BECKMAN RO***	***W 1/8 - 1/4 (0.127 mi.)***	***E23***	***166***
Facility Id: 00000067253				
LODI METAL TECH,INC	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.181 mi.)***	***G31***	***225***
Facility Id: 00000000716				
NOBUO KISHIDA	177 SO KELLY ST	NW 1/8 - 1/4 (0.196 mi.)	G39	422
LODI LUMBER CO	***1025 INDUSTRIAL***	***SSW 1/8 - 1/4 (0.213 mi.)***	***J48***	***442***
Facility Id: 00000066093				
NOBUO KISHIDA	177 KELLY ST	NW 1/8 - 1/4 (0.215 mi.)	G52	447
Facility Id: 00000011269				
LODI READY MIX & BUI	***851 E LODI AVE***	***WNW 1/8 - 1/4 (0.229 mi.)***	***H59***	***473***
Facility Id: 00000019741				
LODI READY MIX & BLD	***851 E LODI AVE***	***WNW 1/8 - 1/4 (0.229 mi.)***	***H62***	***475***
PRIMA-CAST & MFG INC	***1220 E PINE ST***	***N 1/8 - 1/4 (0.235 mi.)***	***K63***	***482***
PRIMA-CAST & MFG. IN	1220 E PINE ST	N 1/8 - 1/4 (0.235 mi.)	K64	483
Facility Id: 00000050118				
E F KLUDT & SONS, IN	1126 E PINE ST	NNW 1/8 - 1/4 (0.238 mi.)	K67	489
Facility Id: 00000049996				
E F KLUDT AND SONS I	***1126 E PINE STREET***	***NNW 1/8 - 1/4 (0.238 mi.)***	***K68***	***490***
FORMER LUMBER DISTRI	1240 E PINE ST	N 1/8 - 1/4 (0.245 mi.)	M76	557
Facility Id: 00000065722				
R & L GRIFFIN	***1240 E PINE ST***	***N 1/8 - 1/4 (0.245 mi.)***	***M78***	***558***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/18/2022 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHAEFER SYTEMS LLC	***1250 E THURMAN RD***	***S 0 - 1/8 (0.013 mi.)***	***B9***	***25***
NORTH AMERICAN SPECI	***300 S BECKMAN RD***	***W 1/8 - 1/4 (0.127 mi.)***	***E25***	***178***

Lower Elevation	Address	Direction / Distance	Map ID	Page
E F KLUDT & SONS INC	***1126 E PINE ST***	***NNW 1/8 - 1/4 (0.238 mi.)***	***K69***	***498***

Other Ascertainable Records

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2019 has revealed that there are 11 HAZNET sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LIN DON MACHINING IN GEPAID: CAL000328629	***270 COMMERCE ST***	***NE 0 - 1/8 (0.057 mi.)***	***D15***	***137***
DARREN YESCAS DBA EN GEPAID: CAL000317540	***200 COMMERCE ST STE***	***NE 0 - 1/8 (0.107 mi.)***	***D17***	***139***
JOE'S AUTOMOTIVE OF GEPAID: CAL000364364	***200 COMMERCE ST STE***	***NE 0 - 1/8 (0.107 mi.)***	***D18***	***143***
BILL COOK GEPAID: CAC002654265	***200 COMMERCE ST***	***NE 0 - 1/8 (0.107 mi.)***	***D20***	***159***
END OF THE LINE AUTO GEPAID: CAL000241686	***200 COMMERCE ST STE***	***NE 0 - 1/8 (0.107 mi.)***	***D21***	***162***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SCHAEFER SYSTEMS INT GEPAID: CAL000180075	***1250 E THURMAN RD***	***S 0 - 1/8 (0.013 mi.)***	***B8***	***23***
SCHAEFER SYSTEMS LLC GEPAID: CAL000204751	***1250 E THURMAN RD***	***S 0 - 1/8 (0.013 mi.)***	***B10***	***30***
SCIENTIFIC SPECIALTI GEPAID: CAL000207603	***1310 THURMAN ST***	***SE 0 - 1/8 (0.021 mi.)***	***C11***	***51***
R & L CARRIERS GEPAID: CAC002877110	***1330 THURMAN ST***	***ESE 0 - 1/8 (0.021 mi.)***	***C12***	***118***
AMERICAN MASTERTECH GEPAID: CAL000433471	1330 THURMAN ST	ESE 0 - 1/8 (0.021 mi.)	C13	131
PREMIER FINISHING GEPAID: CAL000209429	***903 E LODI AVE***	***NW 0 - 1/8 (0.115 mi.)***	***22***	***164***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 10 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PART CONTAINER CORP Reg Id: 390853	***1400 VICTOR***	***NE 1/4 - 1/2 (0.381 mi.)***	***P88***	***573***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LODI METAL TECH,INC Reg Id: 390216	***213 SO. KELLY STREET***	***NW 1/8 - 1/4 (0.181 mi.)***	***G31***	***225***
LODI LUMBER CO Reg Id: 390508	***1025 INDUSTRIAL***	***SSW 1/8 - 1/4 (0.213 mi.)***	***J48***	***442***
LODI READY MIX & BUI Reg Id: 390467	***851 E LODI AVE***	***WNW 1/8 - 1/4 (0.229 mi.)***	***H59***	***473***
S.J. MOSQUITO ABATEM Reg Id: 390218	***200 BECKMAN***	***WNW 1/4 - 1/2 (0.273 mi.)***	***80***	***560***
AMERICAN DUTCH FOUND Reg Id: 390303	***42 CLUFF***	***N 1/4 - 1/2 (0.302 mi.)***	***N82***	***564***
LUSD TRANSPORTATION Reg Id: 390584	***820 CLUFF***	***S 1/4 - 1/2 (0.311 mi.)***	***83***	***567***
MATAGA OLDS, BUICK Reg Id: 390638	***880 BECKMAN***	***SW 1/4 - 1/2 (0.404 mi.)***	***89***	***577***
DON KELLER TRUCKING Reg Id: 390909	***940 VICTOR***	***NNW 1/4 - 1/2 (0.418 mi.)***	***Q90***	***580***
ROBERTS PETROLEUM SE Reg Id: 390850	***930 E VICTOR RD***	***NNW 1/4 - 1/2 (0.488 mi.)***	***U103***	***636***

MWMP: The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

A review of the MWMP list, as provided by EDR, and dated 02/17/2022 has revealed that there is 1 MWMP site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CREATIVE IMAGE AUTO Registration Number: TS-138	***1024 INDUSTRIAL WY U***	***SSW 1/8 - 1/4 (0.244 mi.)***	***J75***	***555***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTSIDE GARAGE AUTO	226 COMMERCE ST S	NE 0 - 1/8 (0.082 mi.)	D16	138

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHANDS TRUCK REPAIR	885 E LODI AVE STE A	WNW 1/8 - 1/4 (0.181 mi.)	H33	338

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

A review of the RGA LUST list, as provided by EDR, has revealed that there are 20 RGA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PART CONTAINER CORP	1400 VICTOR RD	NE 1/4 - 1/2 (0.381 mi.)	P87	572

Lower Elevation	Address	Direction / Distance	Map ID	Page
LODI METAL TECH	213 SOUTH KELLY STRE	NW 1/8 - 1/4 (0.181 mi.)	G32	338
LODI METAL TECH (CLO	213 KELLY ST S	NW 1/8 - 1/4 (0.187 mi.)	G37	420
LODI METAL TECH	213 KELLY ST S	NW 1/8 - 1/4 (0.187 mi.)	G38	421
LODI LUMBER CO (CLOS	1025 INDUSTRIAL WAY	SSW 1/8 - 1/4 (0.213 mi.)	J45	439
LODI LUMBER CO	1025 INDUSTRIAL WAY	SSW 1/8 - 1/4 (0.213 mi.)	J47	440
LODI LUMBER COMPANY	1025 INDUSTRIAL WAY	SSW 1/8 - 1/4 (0.213 mi.)	J51	446
LODI READY MIX	851 EAST LODI AVENUE	WNW 1/8 - 1/4 (0.229 mi.)	H60	474
PINKERTON FOUNDRY	42 NORTH CLUFF AVENU	N 1/4 - 1/2 (0.331 mi.)	N85	571
CAL TRANS LODI MAINT	845 EAST PINE	NW 1/4 - 1/2 (0.340 mi.)	O86	572
DON KELLER TRUCKING	940 VICTOR RD	NNW 1/4 - 1/2 (0.418 mi.)	Q91	582
TERESI TRUCKING	900 1/2 VICTOR RD	NNW 1/4 - 1/2 (0.427 mi.)	R92	583
TERESI TRUCKING	900-1/2 VICTOR RD	NNW 1/4 - 1/2 (0.427 mi.)	R93	584
TERESI TRUCKING	900-1/2 VICTOR RD E	NNW 1/4 - 1/2 (0.427 mi.)	R94	584
S.J. MOSQUITO ABATEM	200 NORTH BECKMAN RO	NNW 1/4 - 1/2 (0.443 mi.)	R96	620
ARCO STATION #760	225 SOUTH CHEROKEE L	WNW 1/4 - 1/2 (0.466 mi.)	S100	631
CHEROKEE SERVICE CEN	303 SOUTH CHEROKEE	W 1/4 - 1/2 (0.475 mi.)	T101	631
ROBERTS PETROLEUM SE	930 VICTOR RD E	NNW 1/4 - 1/2 (0.488 mi.)	U104	653

EXECUTIVE SUMMARY

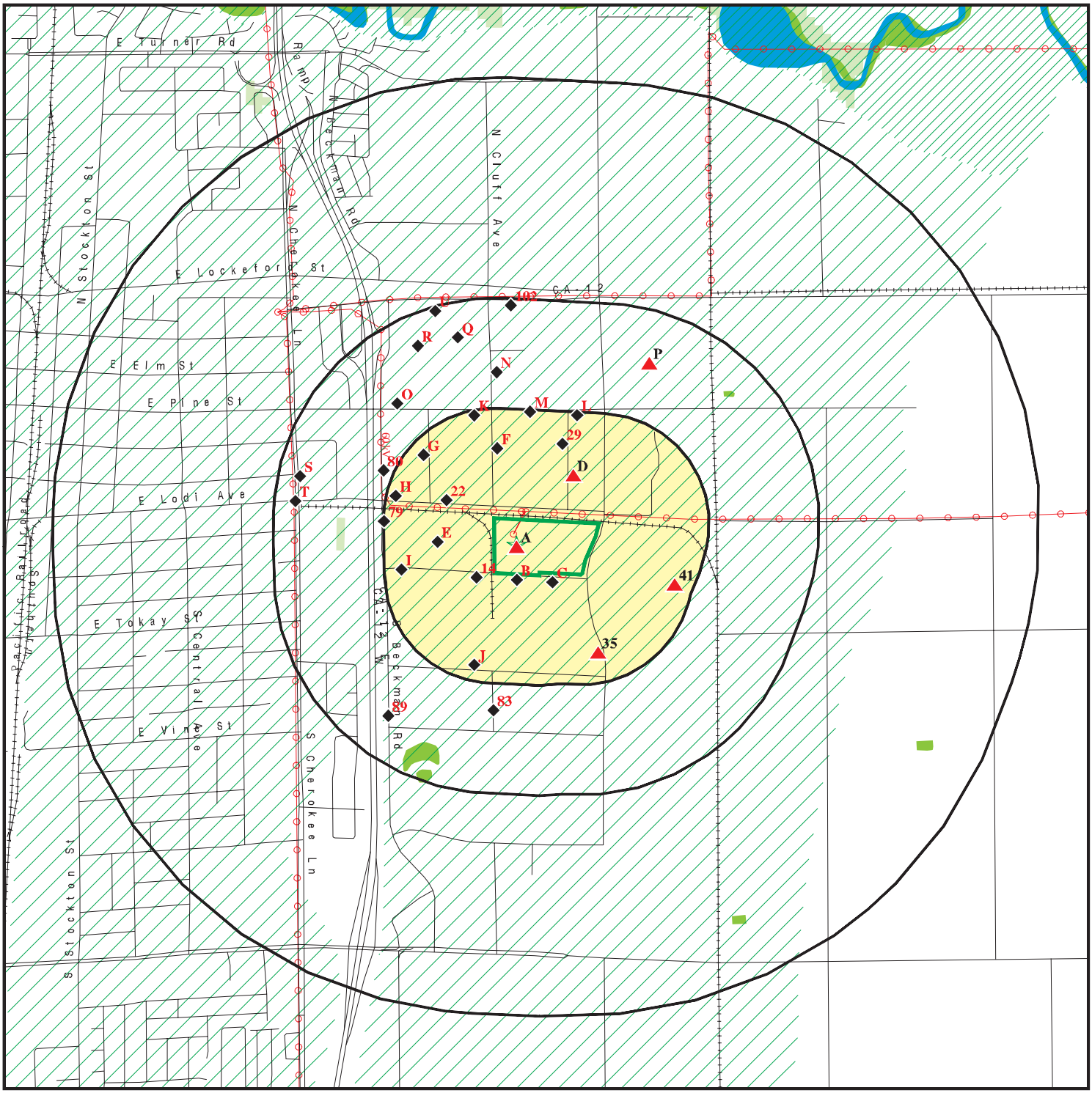
Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBERTS PETROLEUM SE	930 VICTOR RD E	NNW 1/4 - 1/2 (0.488 mi.)	U105	654
ROBERTS PETROLEUM SE	930 EAST VICTOR ROAD	NNW 1/4 - 1/2 (0.488 mi.)	U106	655

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
LODI PCE INVESTIGATION	CPS-SLIC

OVERVIEW MAP - 7000871.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	PG&E Lodi Thurman Substation	CLIENT:	ERM - West, Inc.
ADDRESS:	1215 THURMAN ST Lodi CA 95240	CONTACT:	Arjun Sarkar
		INQUIRY #:	7000871.2s
LAT/LONG:	38.129486 / 121.251408	DATE:	May 31, 2022 4:43 pm

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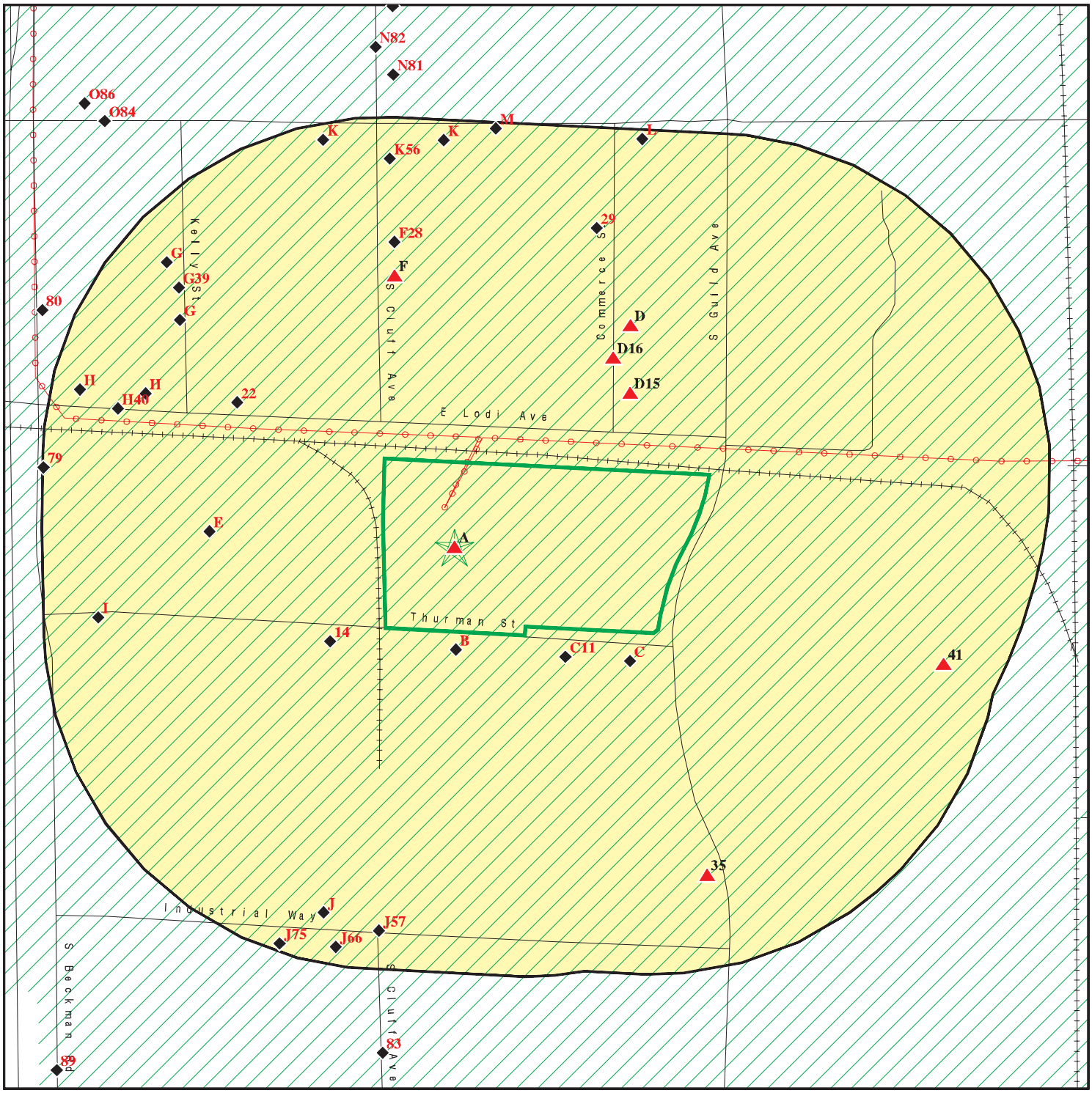
DETAIL MAP - 7000871.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	PG&E Lodi Thurman Substation	CLIENT:	ERM - West, Inc.
ADDRESS:	1215 THURMAN ST Lodi CA 95240	CONTACT:	Arjun Sarkar
LAT/LONG:	38.129486 / 121.251408	INQUIRY #:	7000871.2s
		DATE:	May 31, 2022 4:48 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.250		0	1	NR	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250		0	3	NR	NR	NR	3
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	2	2	0	NR	4
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	4	12	NR	NR	16
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.125		0	NR	NR	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	13	NR	NR	NR	13
AST	TP		NR	NR	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	TP		NR	NR	NR	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	1	0	NR	NR	1
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	TP		NR	NR	NR	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	0.250		0	0	NR	NR	NR	0
CERS HAZ WASTE	0.250		4	12	NR	NR	NR	16
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	9	NR	NR	NR	9
HIST UST	0.250		0	13	NR	NR	NR	13
CA FID UST	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CERS TANKS	0.250		1	2	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	0.125		0	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	TP		NR	NR	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.125		0	NR	NR	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP	2	NR	NR	NR	NR	NR	2
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	0.125		11	NR	NR	NR	NR	11
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	3	7	NR	NR	10
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	1	NR	NR	NR	1
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP	1	NR	NR	NR	NR	NR	1
CERS	TP	3	NR	NR	NR	NR	NR	3
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
HWTS	TP	1	NR	NR	NR	NR	NR	1
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.250		1	1	NR	NR	NR	2
EDR Hist Cleaner	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.500		0	0	0	NR	NR	0
RGA LUST	0.500		0	7	13	NR	NR	20
- Totals --		8	17	74	34	0	0	133

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CITY OF LODI** **FINDS** **1011990309**
Target **1215 THURMAN STREET** **N/A**
Property **LODI, CA 95240**

Site 1 of 7 in cluster A

Actual: **60 ft.**

FINDS:
Registry ID: 110038028746

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A2 **CALPEAK POWER-MIDWAY LLC** **HWTS** **S124841105**
Target **1215 THURMAN ST** **N/A**
Property **LODI, CA 95240**

Site 2 of 7 in cluster A

Actual: **60 ft.**

HWTS:

Name:	CALPEAK POWER-MIDWAY LLC
Address:	1215 THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000264106
Inactive Date:	05/12/2003
Create Date:	12/26/2002
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7365 MISSION GORGE RD STE C
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN DIEGO, CA 921200000
Owner Name:	CALPEAK POWER-MIDWAY LLC
Owner Address:	7365 MISSION GORGE RD STE C
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN DIEGO, CA 921201274
Contact Name:	JEFF MALONE/EXT 367
Contact Address:	7365 MISSION GORGE RD STE C
Contact Address 2:	Not reported
City,State,Zip:	SAN DIEGO, CA 921201274
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.128522
Longitude:	-121.253528

NAICS:

EPA ID:	CAL000264106
Create Date:	2002-12-26 14:36:51.047
NAICS Code:	221122
NAICS Description:	Electric Power Distribution
Issued EPA ID Date:	2002-12-26 14:36:50.98300
Inactive Date:	2003-05-12 00:00:00
Facility Name:	CALPEAK POWER-MIDWAY LLC
Facility Address:	1215 THURMAN ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported

CALPEAK POWER-MIDWAY LLC (Continued) **S124841105**

Facility State: CA
Facility Zip: 95240

A3 **LODI WATER DIV - WELL #4R** **CERS** **S121779291**
Target **1215 THURMAN ST** **N/A**
Property **LODI, CA 95240**

Site 3 of 7 in cluster A

Actual:
60 ft.

CERS:
Name: LODI WATER DIV - WELL #4R
Address: 1215 THURMAN ST
City,State,Zip: LODI, CA 95240
Site ID: 415267
CERS ID: 10183773
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 415267
Site Name: LODI WATER DIV - WELL #4R
Violation Date: 02-09-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 04/02/2021. OBSERVATION: The site maps do not show/address the following required elements: 1. The symbol used on the map for emergency response equipment (which has not been defined) is the same as the symbol for storm drains. 2. Emergency response equipment (fire extinguisher not addressed and spill control not identified). 3. The location of the sodium hypochlorite pentahydrate is not identified. REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approv
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 415267
Site Name: LODI WATER DIV - WELL #4R
Violation Date: 02-09-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/17/2021. OBSERVATION: Documentation showing initial and annual refresher training was not available at the time of inspection. REGULATION GUIDANCE: The business plan shall

LODI WATER DIV - WELL #4R (Continued) **S121779291**

include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION:

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 415267
Site Name: LODI WATER DIV - WELL #4R
Violation Date: 02-09-2021
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 02/09/2021. OBSERVATION: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15 for the years 2018, 2019, 2020, and 2021. The business plan for 2018 was submitted on 1/23/18; for 2019 was submitted on 3/4/19; for 2020 was submitted on 3/2/20, and for 2021 was submitted on 1/21/21. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-10-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/12/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP

LODI WATER DIV - WELL #4R (Continued) **S121779291**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-09-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by March 11, 2021. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 415267
Facility Name: LODI WATER DIV - WELL #4R
Env Int Type Code: HMBP
Program ID: 10183773
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.129490
Longitude: -121.251410

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Andrew Richle
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: CITY OF LODI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 333-6800,

Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Richle
Entity Title: Not reported
Affiliation Address: 1331 Ham Ln
Affiliation City: Lodi

LODI WATER DIV - WELL #4R (Continued) **S121779291**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Andrew Richle
Entity Title:	Utilities Superintendent
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF LODI
Entity Title:	Not reported
Affiliation Address:	1331 S HAM LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95242
Affiliation Phone:	(209) 333-6800,
Affiliation Type Desc:	Parent Corporation
Entity Name:	LODI WATER DIV - WELL #4R
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1331 S HAM LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95242
Affiliation Phone:	,

A4 **CITY OF LODI** **EMI** **S113750232**
Target **1215 THURMAN ST - WELL 4R** **N/A**
Property **LODI, CA 95240**

Site 4 of 7 in cluster A

Actual: **60 ft.**

EMI:

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2009
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.40677663097248E-4
Reactive Organic Gases Tons/Yr:	1.1770500071346799E-4
Carbon Monoxide Emissions Tons/Yr:	4.17130002528429E-4
NOX - Oxides of Nitrogen Tons/Yr:	7.4572755452022004E-3
SOX - Oxides of Sulphur Tons/Yr:	6.2540000379085502E-6
Particulate Matter Tons/Yr:	0.00111834017071323
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00109150000661612

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.41030237839129E-4
Reactive Organic Gases Tons/Yr:	0.000118
Carbon Monoxide Emissions Tons/Yr:	0.000417
NOX - Oxides of Nitrogen Tons/Yr:	7.4599999999999996E-3
SOX - Oxides of Sulphur Tons/Yr:	6.2500000000000003E-6
Particulate Matter Tons/Yr:	1.1168032786885199E-3
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00109

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

CITY OF LODI (Continued) **S113750232**

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2012
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2013
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00089812179852
Reactive Organic Gases Tons/Yr:	0.000789
Carbon Monoxide Emissions Tons/Yr:	0.0028
NOX - Oxides of Nitrogen Tons/Yr:	0.05
SOX - Oxides of Sulphur Tons/Yr:	4.19e-005
Particulate Matter Tons/Yr:	0.0075
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00732

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2014
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199

CITY OF LODI (Continued) **S113750232**

Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00053841775754
Reactive Organic Gases Tons/Yr:	0.000473
Carbon Monoxide Emissions Tons/Yr:	0.00168
NOX - Oxides of Nitrogen Tons/Yr:	0.03
SOX - Oxides of Sulphur Tons/Yr:	2.52e-005
Particulate Matter Tons/Yr:	0.0044979508197
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00439

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00043483210017
Reactive Organic Gases Tons/Yr:	0.000382
Carbon Monoxide Emissions Tons/Yr:	0.00135
NOX - Oxides of Nitrogen Tons/Yr:	0.0242
SOX - Oxides of Sulphur Tons/Yr:	2.03e-005
Particulate Matter Tons/Yr:	0.0036270491803
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00354

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2017
County Code:	39
Air Basin:	SJV

CITY OF LODI (Continued) **S113750232**

Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00043483210017
Reactive Organic Gases Tons/Yr:	0.000688
Carbon Monoxide Emissions Tons/Yr:	0.00244
NOX - Oxides of Nitrogen Tons/Yr:	0.0436
SOX - Oxides of Sulphur Tons/Yr:	3.65e-005
Particulate Matter Tons/Yr:	0.0036270491803
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00638

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.0010438247012
Reactive Organic Gases Tons/Yr:	0.000917
Carbon Monoxide Emissions Tons/Yr:	0.00325
NOX - Oxides of Nitrogen Tons/Yr:	0.0581
SOX - Oxides of Sulphur Tons/Yr:	4.87e-005
Particulate Matter Tons/Yr:	0.0085513078471
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.0085

Name:	CITY OF LODI
Address:	1215 THURMAN ST - WELL 4R
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00086966420034
Reactive Organic Gases Tons/Yr:	0.000764
Carbon Monoxide Emissions Tons/Yr:	0.00271
NOX - Oxides of Nitrogen Tons/Yr:	0.0484
SOX - Oxides of Sulphur Tons/Yr:	4.06e-005
Particulate Matter Tons/Yr:	0.0071327967807
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.00709

A5 **CITY OF LODI - WELL 4R** **EMI S106920507**
Target **1215 THURMAN STREET** **CERS N/A**
Property **LODI, CA 94603**

Site 5 of 7 in cluster A

Actual: **60 ft.**

EMI:

Name:	CITY OF LODI
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Year:	2003
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CITY OF LODI
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Year:	2004
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.003951596
Reactive Organic Gases Tons/Yr:	0.0033063
Carbon Monoxide Emissions Tons/Yr:	0.010506
NOX - Oxides of Nitrogen Tons/Yr:	0.048307
SOX - Oxides of Sulphur Tons/Yr:	0.0032136
Particulate Matter Tons/Yr:	0.0034505
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.003367688

Name:	CITY OF LODI
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Year:	2005
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

CITY OF LODI - WELL 4R (Continued) **S106920507**

Total Organic Hydrocarbon Gases Tons/Yr:	.0039515955585354607
Reactive Organic Gases Tons/Yr:	.00330630000382662
Carbon Monoxide Emissions Tons/Yr:	.0105060000121593
NOX - Oxides of Nitrogen Tons/Yr:	.0483070000559092
SOX - Oxides of Sulphur Tons/Yr:	.00321360000371933
Particulate Matter Tons/Yr:	.00345050000399351
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.0033676880038976657

Name:	CITY OF LODI
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Year:	2006
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.0000810684877330576
Reactive Organic Gases Tons/Yr:	.0000678300036862493
Carbon Monoxide Emissions Tons/Yr:	.00024038001306355
NOX - Oxides of Nitrogen Tons/Yr:	.00429741323354468
SOX - Oxides of Sulphur Tons/Yr:	.0000036040001958608
Particulate Matter Tons/Yr:	.0006444672481385901
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.000629000034183264

Name:	CITY OF LODI - WELL 4R
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 94603
Year:	2007
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.0001144496245158108
Reactive Organic Gases Tons/Yr:	.0000957600008323789
Carbon Monoxide Emissions Tons/Yr:	.000339360002949834
NOX - Oxides of Nitrogen Tons/Yr:	.00606693605273589
SOX - Oxides of Sulphur Tons/Yr:	.0000050880000442266
Particulate Matter Tons/Yr:	.0009098360734823790
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.000888000007718802

Name:	CITY OF LODI - WELL 4R
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Year:	2008
County Code:	39
Air Basin:	SJV
Facility ID:	3863
Air District Name:	SJU
SIC Code:	9199

CITY OF LODI - WELL 4R (Continued) **S106920507**

Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.0001406776630972487
Reactive Organic Gases Tons/Yr:	.000117705000713468
Carbon Monoxide Emissions Tons/Yr:	.000417130002528429
NOX - Oxides of Nitrogen Tons/Yr:	.0074572755452022
SOX - Oxides of Sulphur Tons/Yr:	.0000062540000379085
Particulate Matter Tons/Yr:	.0011183401707132377
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.00109150000661612

CERS:

Name:	CITY OF LODI
Address:	1215 THURMAN STREET
City,State,Zip:	LODI, CA 95240
Site ID:	460293
CERS ID:	110038028746
CERS Description:	US EPA Air Emission Inventory System (EIS)

A6 **LODI ELECTRIC ENERGY FACILITY** **CIWQS** **S121651675**
Target **1215 THURMAN ST** **N/A**
Property **LODI, CA 95240**

Site 6 of 7 in cluster A

Actual: **60 ft.**

CIWQS:

Name:	LODI ELECTRIC ENERGY FACILITY
Address:	1215 THURMAN ST
City,State,Zip:	LODI, CA 95240
Agency:	Lodi City
Agency Address:	221 W Pine St, Lodi, CA 95241
Place/Project Type:	Construction - Industrial, Utility
SIC/NAICS:	Not reported
Region:	5S
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	5S39C320199
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	02/19/2003
Termination Date:	04/01/2004
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.128612
Longitude:	-121.252085

A7 **LODI ELEC UTIL** **CERS** **S121779288**
Target **1215 THURMAN ST** **N/A**
Property **LODI, CA 95240**

Site 7 of 7 in cluster A

Actual:
60 ft.

CERS:

Name:	LODI ELEC UTIL
Address:	1215 THURMAN ST
City,State,Zip:	LODI, CA 95240
Site ID:	415264
CERS ID:	10183147
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-07-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/9/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Coordinates:

Site ID:	415264
Facility Name:	LODI ELEC UTIL
Env Int Type Code:	HMBP
Program ID:	10183147
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.129490
Longitude:	-121.251410

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,

Affiliation Type Desc:	Parent Corporation
Entity Name:	LODI ELEC UTIL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

LODI ELEC UTIL (Continued) **S121779288**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Thomas Dean
Entity Title:	Not reported
Affiliation Address:	1331 S. Ham Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95242
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1331 S HAM LN
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95242
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	CITY OF LODI
Entity Title:	Not reported
Affiliation Address:	1331 S. Ham Lane
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95242
Affiliation Phone:	(209) 333-6800,
Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF LODI
Entity Title:	Not reported
Affiliation Address:	221 W PINE ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 333-3800,
Affiliation Type Desc:	Operator
Entity Name:	City of Lodi Electric Utility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 333-3800,

B8 **SCHAEFER SYSTEMS INTERNATIONAL INCORPORATED** **HAZNET** **S113095358**
South **1250 E THURMAN RD** **NPDES** **N/A**
< 1/8 **LODI, CA 95240** **HWTS**
0.013 mi.
68 ft. **Site 1 of 3 in cluster B**

Relative:
Lower

Actual:
59 ft.

HAZNET:

Name:	ARKAY PLASTICS CA LLC
Address:	1250 E THURMAN RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Contact:	ANNETTE NORTHOP
Telephone:	2093656030
Mailing Name:	Not reported
Mailing Address:	1250 E THURMAN RD
Year:	1998
Gepaid:	CAL000180075
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.798

Additional Info:

Year:	1998
Gen EPA ID:	CAL000180075
Shipment Date:	19980928
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19980928
Manifest ID:	97391456
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.798
Waste Quantity:	210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

NPDES:

Name:	SCHAEFER SYSTEMS INTERNATIONAL INCORPORATED
Address:	1250 E THURMAN RD
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported

SCHAEFER SYSTEMS INTERNATIONAL INCORPORATED (Continued) **S113095358**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Returned
Status Date:	06/08/2019
Operator Name:	Schaefer Systems International Incorporated
Operator Address:	1250 E Thurman Rd
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

HWTS:

Name:	ARKAY PLASTICS CA LLC
Address:	1250 E THURMAN RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000180075
Inactive Date:	06/30/2000
Create Date:	11/12/1997
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1250 E THURMAN RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	ART KUHNASH
Owner Address:	1250 E THURMAN RD
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400000
Contact Name:	ANNETTE NORTHOP
Contact Address:	INACTIVE PER VQ00 - BMI
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.128522
Longitude:	-121.252521

B9 **SCHAEFER SYTEMS LLC** **CERS HAZ WASTE** **S121775643**
South **1250 E THURMAN RD** **CERS TANKS** **N/A**
< 1/8 **LODI, CA 95240** **CERS**
0.013 mi.
68 ft. **Site 2 of 3 in cluster B**

Relative:
Lower

Actual:
59 ft.

CERS HAZ WASTE:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Aboveground Petroleum Storage

CERS:
Name: SCHAEFER SYTEMS LLC
Address: 1250 E THURMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 401624
CERS ID: 10183923
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 06-10-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/23/2015. 562 cubic feet of Oxygen and 246 cubic feet of Acetylene were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 11-08-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 12/21/2018. Map missing shut offs, emergency response equipment, loading area, access & exits, evacuation staging

SCHAEFER SYTEMS LLC (Continued) **S121775643**

area, chemical storage. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 06-10-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/23/2015. The emergency response procedures were not uploaded to CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 09-19-2014
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/19/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Violation Date: 06-10-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/23/2015. A training program was not

SCHAEFER SYTEMS LLC (Continued) **S121775643**

uploaded to CERS website. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 7/10/2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: AST generic oir issued. SPCC plan on site. No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: AST survey completed at facility.
Eval Division: San Joaquin County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: 127c, 000 3.25 tons in 2013.
Eval Division: San Joaquin County Environmental Health

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-08-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12/8/2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Site Address: 1250 E THURMAN RD
Site City: LODI
Site Zip: 95240
Enf Action Date: 06-10-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 401624
Site Name: SCHAEFER SYTEMS LLC
Site Address: 1250 E THURMAN RD
Site City: LODI
Site Zip: 95240
Enf Action Date: 09-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: steve reichow
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Entity Name:	Morris Marlow - Agent for Owner
Entity Title:	Not reported
Affiliation Address:	10021 Westlake Drive PO Box 7009
Affiliation City:	Charlotte
Affiliation State:	NC
Affiliation Country:	United States
Affiliation Zip:	28241
Affiliation Phone:	(704) 944-4500,
Affiliation Type Desc:	Operator
Entity Name:	SSI Schaefer Systems LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 365-6030,
Affiliation Type Desc:	Identification Signer
Entity Name:	Steve Reichow
Entity Title:	Consultant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Shannon Ramirez
Entity Title:	Not reported
Affiliation Address:	1250 E Thurman Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1250 E THURMAN RD
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240

SCHAEFER SYTEMS LLC (Continued) **S121775643**

Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: SCHAEFER SYTEMS LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

B10 **SCHAEFER SYSTEMS LLC** **HAZNET** **S113104005**
South **1250 E THURMAN RD** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.013 mi.
68 ft. **Site 3 of 3 in cluster B**

Relative: HAZNET:
Lower

Actual:
59 ft.

Name: SCHAEFER SYSTEMS LLC
Address: 1250 E THURMAN RD
Address 2: Not reported
City,State,Zip: LODI, CA 952400000
Contact: SHANNON RAMIREZ
Telephone: 2093656030
Mailing Name: Not reported
Mailing Address: 1250 E THURMAN RD

Year: 2019
Gepaid: CAL000204751
TSD EPA ID: CAL000282598
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.02500

Year: 2018
Gepaid: CAL000204751
TSD EPA ID: CAL000282598
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.27500

Year: 2018
Gepaid: CAL000204751
TSD EPA ID: AZR000520304
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.22500

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.35

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: CAL000190816
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: -
Tons: 0.152

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: CAL000190816
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.456

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: CAL000190816
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.6255

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.46

Year: 2017
Gepaid: CAL000204751
TSD EPA ID: CAL000282598
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2

Year: 2016
Gepaid: CAL000204751
TSD EPA ID: CAL000282598
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.875

Click this hyperlink while viewing on your computer to access
15 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2012
Gen EPA ID: CAL000204751

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Shipment Date:	20121109
Creation Date:	1/5/2013 22:15:26
Receipt Date:	20121113
Manifest ID:	009720375JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120918
Creation Date:	11/22/2012 22:15:21
Receipt Date:	20120921
Manifest ID:	009720304JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120801
Creation Date:	9/26/2012 22:15:10
Receipt Date:	20120802
Manifest ID:	009720208JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.425
Waste Quantity:	850
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120518
Creation Date:	8/1/2012 22:15:18
Receipt Date:	20120523
Manifest ID:	009720115JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120314
Creation Date:	5/5/2012 20:30:13
Receipt Date:	20120315
Manifest ID:	008406997JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.6
Waste Quantity: 1200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAL000204751

Shipment Date: 20151208
Creation Date: 2/9/2016 22:15:50
Receipt Date: 20151217
Manifest ID: 014783231JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000282598
Trans Name: BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.27
Waste Quantity: 540
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151008
Creation Date: 12/2/2015 22:15:28
Receipt Date: 20151015
Manifest ID: 009720453JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000282598
Trans Name: BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.8

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150713
Creation Date:	10/1/2015 22:15:28
Receipt Date:	20150715
Manifest ID:	013435489JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.44
Waste Quantity:	880
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150112
Creation Date:	3/30/2015 22:15:06
Receipt Date:	20150121
Manifest ID:	013435180JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1185
Waste Quantity:	237
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Additional Info:

Year:	2001
Gen EPA ID:	CAL000204751
Shipment Date:	20011101
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011117
Manifest ID:	20743523
Trans EPA ID:	CAR000047019
Trans Name:	Not reported
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	Not reported
TSDF EPA ID:	WIR000029751
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010201
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010206
Manifest ID:	20365798
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0166
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000204751

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Shipment Date:	20080506
Creation Date:	8/4/2008 18:30:22
Receipt Date:	20080528
Manifest ID:	001835984JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	WIR000029751
Trans Name:	CRI RECYCLING SERVICE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080319
Creation Date:	5/15/2008 18:30:17
Receipt Date:	20080329
Manifest ID:	001835834JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	WIR000029751
Trans 2 Name:	CRI RECYCLING SERVICE
TSDF EPA ID:	WIR000029751
Trans Name:	CRI RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000204751

Shipment Date:	20140613
Creation Date:	9/13/2014 22:15:06
Receipt Date:	20140620
Manifest ID:	012473301JJK

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140303
Creation Date:	5/9/2014 22:14:57
Receipt Date:	20140306
Manifest ID:	012473109JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000204751
Shipment Date:	20151208
Creation Date:	2/9/2016 22:15:50
Receipt Date:	20151217
Manifest ID:	014783231JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.27
Waste Quantity:	540
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151008
Creation Date:	12/2/2015 22:15:28
Receipt Date:	20151015
Manifest ID:	009720453JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150713
Creation Date:	10/1/2015 22:15:28
Receipt Date:	20150715
Manifest ID:	013435489JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.44
Waste Quantity: 880
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150112
Creation Date: 3/30/2015 22:15:06
Receipt Date: 20150121
Manifest ID: 013435180JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000282598
Trans Name: BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1185
Waste Quantity: 237
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAL000204751

Shipment Date: 20171208
Creation Date: 10/16/2018 18:31:07
Receipt Date: 20171220
Manifest ID: 016987850JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: CAL000367042
Trans 2 Name: KERN OIL FILTER RECYCLING
TSDF EPA ID: AZR000515924
Trans Name: YUMA ENVIRONMENTAL
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.125

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171024
Creation Date:	10/10/2018 18:30:37
Receipt Date:	20171101
Manifest ID:	016987914JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	CAL000367042
Trans 2 Name:	KERN OIL FILTER RECYCLING
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.624
Waste Quantity:	1248
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170803
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20170811
Manifest ID:	016987793JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	CAL000367042
Trans 2 Name:	KERN OIL FILTER RECYCLING
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Shipment Date:	20170627
Creation Date:	5/17/2018 18:31:27
Receipt Date:	20170630
Manifest ID:	016987727JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170525
Creation Date:	6/20/2018 18:31:19
Receipt Date:	20170525
Manifest ID:	016987671JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	CALIFORNIA OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.456
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170525
Creation Date:	6/20/2018 18:31:19
Receipt Date:	20170525
Manifest ID:	016987671JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	CALIFORNIA OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0834
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170525
Creation Date:	10/10/2018 18:30:23
Receipt Date:	20170612
Manifest ID:	016987672JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	CAL000367042
Trans 2 Name:	KERN OIL FILTER RECYCLING
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170413
Creation Date:	5/11/2018 18:34:48
Receipt Date:	20170418
Manifest ID:	016987603JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	RIVERBANK OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Meth Code:	- Not reported
Quantity Tons:	0.152
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170413
Creation Date:	5/11/2018 18:34:48
Receipt Date:	20170418
Manifest ID:	016987603JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	RIVERBANK OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5421
Waste Quantity:	130
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170413
Creation Date:	5/11/2018 18:34:02
Receipt Date:	20170427
Manifest ID:	016987595JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	CAL000367042
Trans 2 Name:	KERN OIL FILTER RECYCLING
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2005
Gen EPA ID: CAL000204751

Shipment Date: 20050818
Creation Date: 8/23/2006 18:32:59
Receipt Date: 20050927
Manifest ID: 24533484
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: WIR000029751
Trans 2 Name: CRI RECYCLING SERVICE
TSDF EPA ID: WIR000029751
Trans Name: CRI RECYCLING SERVICE
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.2
Waste Quantity: 400
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050421
Creation Date: 7/27/2005 10:48:47
Receipt Date: 20050524
Manifest ID: 24533291
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: WIR000029751
Trans 2 Name: CRI RECYCLING SERVICE INC
TSDF EPA ID: WIR000029751
Trans Name: CRI RECYCLING SERVICE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050112
Creation Date: 4/2/2005 18:31:07

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Receipt Date:	20050214
Manifest ID:	23649137
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	WIR000029751
Trans 2 Name:	CRI RECYCLING SERVICE INC
TSDF EPA ID:	WIR000029751
Trans Name:	CRI RECYCLING SERVICE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000204751
Shipment Date:	20131114
Creation Date:	1/11/2014 22:15:06
Receipt Date:	20131121
Manifest ID:	011272445JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000282598
Trans Name:	BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130801
Creation Date:	9/20/2013 22:15:23
Receipt Date:	20130805
Manifest ID:	011272269JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000282598
Trans Name: BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.45
Waste Quantity: 900
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130320
Creation Date: 5/5/2013 22:15:17
Receipt Date: 20130321
Manifest ID: 009720372JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000282598
Trans Name: BAKERSFIELD TRANSFER INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2003
Gen EPA ID: CAL000204751

Shipment Date: 20030730
Creation Date: 7/28/2004 10:48:03
Receipt Date: 20030814
Manifest ID: 22685852
Trans EPA ID: CAR000047019
Trans Name: Not reported
Trans 2 EPA ID: CAD063547996
Trans 2 Name: Not reported
TSDF EPA ID: WIR000029751

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000204751
Shipment Date:	20111213
Creation Date:	3/16/2012 20:30:17
Receipt Date:	20111228
Manifest ID:	008406876JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	CA0000646497
Trans 2 Name:	SHOP HAZARDS SOLUTIONS INC
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110617
Creation Date:	11/30/2011 18:30:36
Receipt Date:	20110627
Manifest ID:	005744768JJK
Trans EPA ID:	CAR000047019
Trans Name:	GEORGE W LOWRY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	WIR000029751
Trans Name:	CRI RECYCLING SERVICE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.8
Waste Quantity: 1600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2009
Gen EPA ID: CAL000204751

Shipment Date: 20090319
Creation Date: 4/28/2009 18:30:19
Receipt Date: 20090330
Manifest ID: 004510443JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: WIR000029751
Trans 2 Name: CRI RECYCLING SERVICE
TSDF EPA ID: WIR000029751
Trans Name: CRI RECYCLING SERVICE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.15
Waste Quantity: 300
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAL000204751

Shipment Date: 20061222
Creation Date: 4/19/2007 18:30:21
Receipt Date: 20061229
Manifest ID: 000123464JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: WIR000029751
Trans 2 Name: CRI RECYCLING SERVICE INC
TSDF EPA ID: WIR000029751
Trans Name: CRI RECYCLING SERVICE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000204751
Shipment Date:	20040316
Creation Date:	10/1/2004 18:31:09
Receipt Date:	20040322
Manifest ID:	23023276
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	SCHAEFER SYSTEMS LLC
Address:	1250 E THURMAN RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000204751
Inactive Date:	Not reported
Create Date:	06/02/2000
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1250 E THURMAN RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	SCHAEFER SYSTEMS LLC
Owner Address:	1250 E THURMAN RD
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400000

SCHAEFER SYSTEMS LLC (Continued) **S113104005**

Contact Name: SHANNON RAMIREZ
Contact Address: 1250 E THURMAN RD
Contact Address 2: Not reported
City,State,Zip: LODI, CA 95240
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 38.128522
Longitude: -121.252521

NAICS:
EPA ID: CAL000204751
Create Date: 2003-10-23 13:13:52.000
NAICS Code: 326199
NAICS Description: All Other Plastics Product Manufacturing
Issued EPA ID Date: 2000-06-02 00:00:00
Inactive Date: Not reported
Facility Name: SCHAEFER SYSTEMS LLC
Facility Address: 1250 E THURMAN RD
Facility Address 2: Not reported
Facility City: LODI
Facility County: Not reported
Facility State: CA
Facility Zip: 952400000

EPA ID: CAL000204751
Create Date: 2003-10-23 13:13:52.000
NAICS Code: 326199
NAICS Description: All Other Plastics Product Manufacturing
Issued EPA ID Date: 2000-06-02 00:00:00
Inactive Date: Not reported
Facility Name: SCHAEFER SYSTEMS LLC
Facility Address: 1250 E THURMAN RD
Facility Address 2: Not reported
Facility City: LODI
Facility County: Not reported
Facility State: CA
Facility Zip: 952400000

C11 **SCIENTIFIC SPECIALTIES INC** **HAZNET** **S113105640**
SE **1310 THURMAN ST** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.021 mi.
109 ft. **Site 1 of 3 in cluster C**

Relative:
Lower

Actual:
59 ft.

HAZNET:
Name: SCIENTIFIC SPECIALTIES INC
Address: 1310 THURMAN ST
Address 2: Not reported
City,State,Zip: LODI, CA 952400000
Contact: BILL SCHMIERER CFO
Telephone: 2093332120
Mailing Name: Not reported
Mailing Address: 1310 THURMAN ST

Year: 2019
Gepaid: CAL000207603

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSD EPA ID: CAT080014079
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02000

Year: 2019
Gepaid: CAL000207603
TSD EPA ID: CAD059494310
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.39198

Year: 2019
Gepaid: CAL000207603
TSD EPA ID: NED981723513
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.13344

Year: 2019
Gepaid: CAL000207603
TSD EPA ID: CA0000084517
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.25200

Year: 2018
Gepaid: CAL000207603
TSD EPA ID: NED981723513
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.13344

Year: 2018
Gepaid: CAL000207603
TSD EPA ID: CA0000084517
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.42000

Year: 2018
Gepaid: CAL000207603
TSD EPA ID: NED981723513
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.12240

Year: 2018
Gepaid: CAL000207603
TSD EPA ID: CAD059494310
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.10008
Year:	2018
Gepaid:	CAL000207603
TSD EPA ID:	CAD059494310
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25920
Year:	2017
Gepaid:	CAL000207603
TSD EPA ID:	CAD059494310
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.168

Click this hyperlink while viewing on your computer to access
48 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2016
Gen EPA ID:	CAL000207603
Shipment Date:	20151111
Creation Date:	2/10/2016 22:15:22
Receipt Date:	20151119
Manifest ID:	005106035SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	12/30/2015 22:15:30
Receipt Date:	20151113
Manifest ID:	005142829SKS

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150916
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20150924
Manifest ID:	005064461SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150916
Creation Date:	12/22/2015 22:15:38
Receipt Date:	20150918
Manifest ID:	005141135SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150723
Creation Date:	9/25/2015 22:15:09
Receipt Date:	20150728
Manifest ID:	004842709SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150723
Creation Date:	10/5/2015 22:15:07
Receipt Date:	20150731
Manifest ID:	004842844SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150708
Creation Date:	10/1/2015 22:15:21
Receipt Date:	20150716
Manifest ID:	004842748SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150520
Creation Date:	8/28/2015 22:15:07
Receipt Date:	20150522
Manifest ID:	004927689SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20150520
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150528
Manifest ID:	004764636SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150327
Creation Date:	6/25/2015 22:15:58
Receipt Date:	20150331
Manifest ID:	004898733SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAL000207603

Shipment Date:	20091210
Creation Date:	2/3/2010 18:30:49
Receipt Date:	20091214

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Manifest ID:	000295906CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0798
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090818
Creation Date:	9/25/2009 18:30:08
Receipt Date:	20090824
Manifest ID:	002090206SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090625
Creation Date:	11/3/2009 18:30:20
Receipt Date:	20090706
Manifest ID:	001991455SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090625
Creation Date:	7/31/2009 18:30:08
Receipt Date:	20090629
Manifest ID:	001991382SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090528
Creation Date:	7/2/2009 18:30:34
Receipt Date:	20090602
Manifest ID:	005487418JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090428
Creation Date:	8/28/2009 18:30:09
Receipt Date:	20090511
Manifest ID:	001773605SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D008
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090428
Creation Date:	5/27/2009 18:30:20
Receipt Date:	20090429
Manifest ID:	001908536SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090311

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Creation Date:	9/11/2012 22:15:10
Receipt Date:	Not reported
Manifest ID:	001653954SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090311
Creation Date:	7/14/2009 18:30:20
Receipt Date:	20090319
Manifest ID:	001747999SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	252 - Oher still bottom waste 261 Polychlorinated biphenyls and material containing PCBs
RCRA Code:	D008
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090126
Creation Date:	6/3/2009 18:30:08
Receipt Date:	20090210
Manifest ID:	001706293SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	252 - Oher still bottom waste 261 Polychlorinated biphenyls and material containing PCBs
RCRA Code:	D008
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000207603
Shipment Date:	20080213
Creation Date:	3/28/2008 18:30:20
Receipt Date:	20080215
Manifest ID:	000982788SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080131
Creation Date:	4/3/2008 18:30:34
Receipt Date:	20080201
Manifest ID:	000276551JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAL000207603
Shipment Date:	20011116
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011121
Manifest ID:	21313263
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0546
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010919
Creation Date:	12/17/2001 0:00:00
Receipt Date:	Not reported
Manifest ID:	21455227
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	- Not reported
Quantity Tons:	0.0378

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Waste Quantity:	9
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010723
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010726
Manifest ID:	21100029
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0378
Waste Quantity:	9
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010529
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010531
Manifest ID:	20648331
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0462
Waste Quantity:	11
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010405

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Creation Date:	6/20/2001 0:00:00
Receipt Date:	20010412
Manifest ID:	20625235
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010209
Creation Date:	4/19/2001 0:00:00
Receipt Date:	20010216
Manifest ID:	20423668
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000207603

Shipment Date:	20131112
Creation Date:	12/23/2013 22:15:20
Receipt Date:	20131115
Manifest ID:	004016770SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131112
Creation Date:	2/7/2014 22:15:07
Receipt Date:	20131209
Manifest ID:	003964220SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130917
Creation Date:	12/29/2013 22:15:24
Receipt Date:	20131016
Manifest ID:	003923423SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130917
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130920
Manifest ID:	003718380SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130725
Creation Date:	12/27/2013 22:15:22
Receipt Date:	20130820
Manifest ID:	003824281SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130725
Creation Date:	9/30/2013 22:15:16
Receipt Date:	20130730
Manifest ID:	003693988SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130530
Creation Date:	10/29/2013 22:15:09
Receipt Date:	20130627
Manifest ID:	003629757SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130530
Creation Date:	8/10/2013 22:15:16
Receipt Date:	20130604
Manifest ID:	003085824SKS

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130403
Creation Date:	6/9/2013 22:15:06
Receipt Date:	20130405
Manifest ID:	003397988SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130403
Creation Date:	8/10/2013 22:15:16
Receipt Date:	20130415
Manifest ID:	003773767SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000207603
Shipment Date:	20151111
Creation Date:	2/10/2016 22:15:22
Receipt Date:	20151119
Manifest ID:	005106035SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	12/30/2015 22:15:30
Receipt Date:	20151113
Manifest ID:	005142829SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150916
Creation Date:	12/22/2015 22:15:38
Receipt Date:	20150918
Manifest ID:	005141135SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150916
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20150924
Manifest ID:	005064461SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150723
Creation Date:	10/5/2015 22:15:07
Receipt Date:	20150731
Manifest ID:	004842844SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150723
Creation Date:	9/25/2015 22:15:09
Receipt Date:	20150728
Manifest ID:	004842709SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150708
Creation Date:	10/1/2015 22:15:21
Receipt Date:	20150716
Manifest ID:	004842748SKS

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150520
Creation Date:	8/28/2015 22:15:07
Receipt Date:	20150522
Manifest ID:	004927689SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150520
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150528
Manifest ID:	004764636SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150327
Creation Date:	6/25/2015 22:15:58
Receipt Date:	20150331
Manifest ID:	004898733SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000207603
Shipment Date:	20121219
Creation Date:	2/18/2013 22:15:20
Receipt Date:	20121221
Manifest ID:	003454556SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121219
Creation Date:	5/21/2013 22:15:06
Receipt Date:	20130107
Manifest ID:	003324331SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS, INC.
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC.
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS, INC.
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121024
Creation Date:	3/26/2013 22:15:29
Receipt Date:	20121106
Manifest ID:	003537800SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 5:	Not reported
Shipment Date:	20121024
Creation Date:	12/24/2012 22:15:22
Receipt Date:	20121026
Manifest ID:	003358521SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120829
Creation Date:	8/18/2013 22:15:15
Receipt Date:	20120918
Manifest ID:	003324434SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120829
Creation Date:	10/29/2012 22:15:06
Receipt Date:	20120904
Manifest ID:	003351158SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120705
Creation Date:	5/31/2013 22:15:05
Receipt Date:	20120723
Manifest ID:	003280206SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120705
Creation Date:	10/4/2012 22:15:11
Receipt Date:	20120710
Manifest ID:	003363401SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120508
Creation Date:	5/29/2013 22:15:05
Receipt Date:	20120522
Manifest ID:	003210026SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120508
Creation Date:	6/27/2012 20:30:23
Receipt Date:	20120511
Manifest ID:	003351790SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000207603
Shipment Date:	20111117
Creation Date:	2/15/2012 20:30:21
Receipt Date:	20111122
Manifest ID:	002935652SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111117
Creation Date:	1/27/2012 20:30:11
Receipt Date:	20111122
Manifest ID:	002725622SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20110928
Creation Date:	12/13/2011 18:30:24
Receipt Date:	20110930
Manifest ID:	002830442SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110928
Creation Date:	12/20/2011 18:30:31
Receipt Date:	20111004
Manifest ID:	002830448SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110804
Creation Date:	2/7/2012 20:30:12
Receipt Date:	20110822
Manifest ID:	002830937SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110804
Creation Date:	10/1/2011 18:30:25
Receipt Date:	20110809
Manifest ID:	004307736FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110713
Creation Date:	9/1/2011 18:31:36
Receipt Date:	20110719
Manifest ID:	004255904FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0798
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110713
Creation Date:	1/12/2012 18:30:15
Receipt Date:	20110802
Manifest ID:	002843735SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110606
Creation Date:	7/13/2011 18:30:09
Receipt Date:	20110607
Manifest ID:	006065834JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3753
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 5:	Not reported
Shipment Date:	20110519
Creation Date:	10/22/2011 18:30:13
Receipt Date:	20110606
Manifest ID:	002663578SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000207603
Shipment Date:	20141210
Creation Date:	3/9/2015 22:15:06
Receipt Date:	20141222
Manifest ID:	004494737SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	2/24/2015 22:15:05

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Receipt Date:	20141212
Manifest ID:	004599374SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141016
Creation Date:	12/31/2014 22:14:53
Receipt Date:	20141021
Manifest ID:	004659895SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141016
Creation Date:	1/26/2015 22:15:24
Receipt Date:	20141028
Manifest ID:	004495317SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140820
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140822
Manifest ID:	004322579SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140820
Creation Date:	10/31/2014 22:14:51
Receipt Date:	20140829
Manifest ID:	004422970SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140624
Creation Date:	9/23/2014 22:15:15
Receipt Date:	20140707
Manifest ID:	004373899SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140624
Creation Date:	8/18/2014 22:15:10
Receipt Date:	20140627
Manifest ID:	004359076SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 5:	Not reported
Shipment Date:	20140428
Creation Date:	8/8/2014 22:14:58
Receipt Date:	20140514
Manifest ID:	004164610SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140428
Creation Date:	7/1/2014 22:15:08
Receipt Date:	20140502
Manifest ID:	004336517SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000207603
Shipment Date:	20041210

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Creation Date:	3/13/2007 18:30:28
Receipt Date:	20041210
Manifest ID:	23723513
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041015
Creation Date:	1/10/2005 18:31:02
Receipt Date:	20041015
Manifest ID:	23722013
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040820
Creation Date:	12/28/2004 14:46:39
Receipt Date:	20040820
Manifest ID:	23515532
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0546
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040624
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040624
Manifest ID:	23508774
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040430
Creation Date:	10/15/2004 10:46:40
Receipt Date:	20040430
Manifest ID:	23472478
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040303
Creation Date:	8/23/2004 8:25:08
Receipt Date:	20040303
Manifest ID:	23475737
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040109
Creation Date:	8/19/2004 11:23:00
Receipt Date:	20040109
Manifest ID:	22575622
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAL000207603

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20001211
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001213
Manifest ID:	20419612
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001017
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001027
Manifest ID:	20284306
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000822
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20020763
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000627
Creation Date:	8/14/2000 0:00:00
Receipt Date:	20000706
Manifest ID:	20015026
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000501
Creation Date:	6/21/2000 0:00:00
Receipt Date:	20000504
Manifest ID:	20209748
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000307
Creation Date:	5/17/2000 0:00:00
Receipt Date:	20000310
Manifest ID:	99839672
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0546
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000111
Creation Date:	3/7/2000 0:00:00
Receipt Date:	20000117
Manifest ID:	99715171
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAL000207603

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20020820
Creation Date:	1/27/2003 18:31:12
Receipt Date:	20020826
Manifest ID:	21747215
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0504
Waste Quantity:	12
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020627
Creation Date:	3/17/2003 18:31:23
Receipt Date:	20020701
Manifest ID:	21731146
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020501
Creation Date:	1/8/2003 18:32:09
Receipt Date:	20020506
Manifest ID:	21591394
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020307
Creation Date:	7/29/2002 18:32:31
Receipt Date:	20020311
Manifest ID:	21498369
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020109
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20020114
Manifest ID:	21481935
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000207603
Shipment Date:	20051111
Creation Date:	1/2/2007 18:30:20
Receipt Date:	20051111
Manifest ID:	24720381
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050914
Creation Date:	1/18/2006 10:22:44
Receipt Date:	20050914
Manifest ID:	24720710
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20050722
Creation Date:	10/27/2005 10:10:50
Receipt Date:	20050722
Manifest ID:	24503992
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050525
Creation Date:	8/17/2005 18:32:59
Receipt Date:	20050525
Manifest ID:	24495249
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0504
Waste Quantity:	12
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050331
Creation Date:	6/9/2005 18:31:04
Receipt Date:	20050331
Manifest ID:	23669029
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CAT000613968
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.063
Waste Quantity: 15
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050204
Creation Date: 4/3/2005 18:31:55
Receipt Date: 20050204
Manifest ID: 23658797
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613968
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CAT000613968
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0672
Waste Quantity: 16
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2003
Gen EPA ID: CAL000207603

Shipment Date: 20031111
Creation Date: 8/5/2004 10:08:03
Receipt Date: 20031111
Manifest ID: 23302467
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613968
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: CAT000613968
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030918
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030918
Manifest ID:	22519152
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030723
Creation Date:	7/28/2004 10:45:53
Receipt Date:	20030723
Manifest ID:	22873981
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Shipment Date:	20030528
Creation Date:	6/23/2004 10:00:42
Receipt Date:	20030528
Manifest ID:	22370121
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0504
Waste Quantity:	12
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030326
Creation Date:	7/12/2003 18:31:23
Receipt Date:	20030326
Manifest ID:	22435770
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030205
Creation Date:	5/18/2003 14:30:16
Receipt Date:	20030205
Manifest ID:	22114454
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000207603
Shipment Date:	20171109
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20171201
Manifest ID:	006286294SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0576
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171107
Creation Date:	7/16/2018 18:30:44
Receipt Date:	20171116
Manifest ID:	006371290SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170913
Creation Date:	5/30/2018 18:33:46
Receipt Date:	20170920
Manifest ID:	006345117SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170913
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20171009
Manifest ID:	006192949SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0576
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170718
Creation Date:	5/29/2018 18:30:17
Receipt Date:	20170726
Manifest ID:	006048373SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170718
Creation Date:	6/20/2018 18:31:46
Receipt Date:	20170731
Manifest ID:	006135504SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170525
Creation Date:	5/30/2018 18:33:22
Receipt Date:	20170605
Manifest ID:	006100031SKS

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170523
Creation Date:	5/20/2018 18:31:29
Receipt Date:	20170609
Manifest ID:	006099856SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170523
Creation Date:	5/30/2018 18:33:22
Receipt Date:	20170605
Manifest ID:	006034270SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170329
Creation Date:	5/24/2017 18:30:56
Receipt Date:	20170404
Manifest ID:	005785634SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000207603
Shipment Date:	20061127
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061128
Manifest ID:	000231140CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000760
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0798
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061006
Creation Date:	3/30/2007 13:31:46
Receipt Date:	20061009
Manifest ID:	001783843JJK
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060810
Creation Date:	9/28/2006 18:31:30
Receipt Date:	20060811
Manifest ID:	25027530
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060615
Creation Date:	9/14/2006 18:36:07
Receipt Date:	20060616
Manifest ID:	25041161
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0588
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060531
Creation Date:	8/25/2006 18:36:37
Receipt Date:	20060601
Manifest ID:	25189109
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD044003556
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060421
Creation Date:	7/29/2006 18:34:05
Receipt Date:	20060421
Manifest ID:	23676492
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0798
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060303
Creation Date:	7/5/2006 12:04:15
Receipt Date:	20060303
Manifest ID:	24617568
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060106
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20060106
Manifest ID:	23676829
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613968
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CAT000613968
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000207603
Shipment Date:	20101124
Creation Date:	1/12/2011 18:30:09
Receipt Date:	20101130
Manifest ID:	003663083FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101124
Creation Date:	4/27/2011 18:30:18
Receipt Date:	20101213
Manifest ID:	003710958FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100923
Creation Date:	12/30/2010 18:30:08
Receipt Date:	20100928
Manifest ID:	000346129CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0504
Waste Quantity:	12
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100923
Creation Date:	2/18/2011 18:30:17
Receipt Date:	20101011
Manifest ID:	003731213FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100723
Creation Date:	9/30/2010 18:30:08
Receipt Date:	20100727

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Manifest ID:	002405994SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0588
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100723
Creation Date:	1/26/2011 18:30:17
Receipt Date:	20100809
Manifest ID:	003357091FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100528
Creation Date:	1/14/2011 18:30:31
Receipt Date:	20100615
Manifest ID:	003329640FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD91588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100401
Creation Date:	12/3/2010 18:31:11
Receipt Date:	20100415
Manifest ID:	002286212SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100401
Creation Date:	6/29/2010 18:30:25
Receipt Date:	20100405
Manifest ID:	002424995SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0798
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100223
Creation Date:	5/20/2010 18:30:33
Receipt Date:	20100305
Manifest ID:	006582458JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000207603
Shipment Date:	20071218
Creation Date:	3/6/2008 18:30:06
Receipt Date:	20071220
Manifest ID:	000940485SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Additional Code 5:	Not reported
Shipment Date:	20071030
Creation Date:	1/8/2008 18:30:43
Receipt Date:	20071102
Manifest ID:	000765281SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000760
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0588
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070904
Creation Date:	11/6/2007 18:30:22
Receipt Date:	20070907
Manifest ID:	000858390SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0588
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070719
Creation Date:	12/10/2007 18:30:07
Receipt Date:	20070724
Manifest ID:	000459290SKS
Trans EPA ID:	TXR000050930

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070518
Creation Date:	10/11/2007 18:30:06
Receipt Date:	20070522
Manifest ID:	000314634SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070322
Creation Date:	8/18/2007 18:30:05
Receipt Date:	20070327
Manifest ID:	000393651SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070123
Creation Date:	8/9/2007 18:30:13
Receipt Date:	20070126
Manifest ID:	000349708SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAL000207603
Shipment Date:	19991214
Creation Date:	2/28/2000 0:00:00
Receipt Date:	19991223
Manifest ID:	99530971
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

Quantity Tons:	0.0672
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991116
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991124
Manifest ID:	99523727
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991020
Creation Date:	12/17/1999 0:00:00
Receipt Date:	19991025
Manifest ID:	99513159
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SCIENTIFIC SPECIALTIES INC (Continued) **S113105640**

HWTS:

Name:	SCIENTIFIC SPECIALTIES INC
Address:	1310 THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000207603
Inactive Date:	Not reported
Create Date:	08/30/1999
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1310 THURMAN ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	SCIENTIFIC SPECIALTIES INC
Owner Address:	1310 THURMAN ST
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400000
Contact Name:	CHRISTOPHER BOND
Contact Address:	1310 THURMAN ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.128522
Longitude:	-121.252185

C12 **R & L CARRIERS** **CERS HAZ WASTE** **S118587471**
ESE **1330 THURMAN ST** **HAZNET** **N/A**
< 1/8 **LODI, CA 95240** **NPDES**
0.021 mi. **CIWQS**
112 ft. **Site 2 of 3 in cluster C** **CERS**
HWTS

Relative:
Lower

Actual:
59 ft.

CERS HAZ WASTE:

Name:	CEPHEID - BUILDING 4
Address:	1330 THURMAN ST
City,State,Zip:	LODI, CA 95240
Site ID:	573368
CERS ID:	10184947
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	R & L CARRIERS
Address:	1330 THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Contact:	TINA BREEZLEY
Telephone:	4403492700
Mailing Name:	Not reported
Mailing Address:	4143 JESSUP RD
Year:	2016
Gepaid:	CAC002877110
TSD EPA ID:	CAD028409019
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

R & L CARRIERS (Continued) **S118587471**

Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02085

NPDES:
Name: AMERICAN MASTERTECH
Address: 1330 THURMAN ST.
City,State,Zip: LODI, CA 95240
Facility Status: Terminated
NPDES Number: CAS000001
Region: 5S
Agency Number: 0
Regulatory Measure ID: 469955
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 5S39NEC001941
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 03/24/2016
Termination Date Of Regulatory Measure: 11/30/2020
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 1330 East Thurman Road
Discharge Name: American MasterTech
Discharge City: Lodi
Discharge State: California
Discharge Zip: 95240
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 5S
Regulatory Measure ID: 469955
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 5S39NEC001941
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 03/24/2016
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: American MasterTech
Discharge Address: 1330 East Thurman Road
Discharge City: Lodi
Discharge State: California
Discharge Zip: 95240
Received Date: Not reported
Processed Date: Not reported

R & L CARRIERS (Continued) **S118587471**

Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported

R & L CARRIERS (Continued) **S118587471**

Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	469955
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/01/2016
Processed Date:	03/24/2016
Status:	Active
Status Date:	03/24/2016
Place Size:	59000
Place Size Unit:	SqFt
Contact:	Brett Marciasini
Contact Title:	Administrative Director
Contact Phone:	209-368-4031
Contact Phone Ext:	Not reported
Contact Email:	hr@americanmastertech.com
Operator Name:	American MasterTech
Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Brett Marciasini
Operator Contact Title:	Administrative Director
Operator Contact Phone:	209-368-4031
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hr@americanmastertech.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported

R & L CARRIERS (Continued) **S118587471**

Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Brett Marciasini
Certifier Title:	Adminstrative Director
Certification Date:	12-APR-17
Primary Sic:	2835-In Vitro and In Vivo Diagnostic Substances
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	AMERICAN MASTERTECH
Address:	1330 THURMAN ST.
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39NEC001941
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	11/30/2020
Operator Name:	American MasterTech
Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	469955
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39NEC001941

R & L CARRIERS (Continued) **S118587471**

Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/24/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	American MasterTech
Discharge Address:	1330 East Thurman Road
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

R & L CARRIERS (Continued) **S118587471**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	469955
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39NEC001941
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/01/2016
Processed Date:	03/24/2016
Status:	Active
Status Date:	03/24/2016
Place Size:	59000
Place Size Unit:	SqFt
Contact:	Brett Marciasini
Contact Title:	Administrative Director
Contact Phone:	209-368-4031
Contact Phone Ext:	Not reported
Contact Email:	hr@americanmastertech.com
Operator Name:	American MasterTech
Operator Address:	1330 East Thurman Road
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Brett Marciasini
Operator Contact Title:	Administrative Director
Operator Contact Phone:	209-368-4031
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	hr@americanmastertech.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported

R & L CARRIERS (Continued) **S118587471**

Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Brett Marciasini
Certifier Title:	Adminstrative Director
Certification Date:	12-APR-17
Primary Sic:	2835-In Vitro and In Vivo Diagnostic Substances
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	AMERICAN MASTERTECH
Address:	1330 THURMAN ST.
City,State,Zip:	LODI, CA 95240
Agency:	American MasterTech
Agency Address:	1330 East Thurman Road, Lodi, CA 95240
Place/Project Type:	Industrial - In Vitro and In Vivo Diagnostic Substances
SIC/NAICS:	2835
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39NEC001941
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/24/2016
Termination Date:	11/30/2020
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	38.12804
Longitude:	-121.24906

R & L CARRIERS (Continued) **S118587471**

CERS:
Name: CEPHEID - BUILDING 4
Address: 1330 THURMAN ST
City,State,Zip: LODI, CA 95240
Site ID: 573368
CERS ID: 10184947
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 573368
Site Name: Cepheid - Building 4
Violation Date: 07-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/17/2018. 250 gallons tank of EOSIN Y, 450 gallons tank of 10% Formalin, and 240 gallons of Harris Heamtoxylin found of site were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 573368
Site Name: Cepheid - Building 4
Violation Date: 07-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/17/2018. A site map was not completed with all required elements. The site map did not include the locations of the hazardous materials storage areas. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 573368
Site Name: Cepheid - Building 4
Violation Date: 07-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency

R & L CARRIERS (Continued) **S118587471**

response plan and procedures for a release or threatened release of a hazardous material.

Violation Notes: Returned to compliance on 08/17/2018. The emergency response procedures were lacking or inadequate. The emergency response contingency plan did not list the CUPA/SJC EHD phone number . The CUPA/SJC EHD phone number is(209)468-3420. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 573368
Site Name: Cepheid - Building 4
Violation Date: 03-19-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 03/19/2015. The Hazardous Materials Inventory forms for 110 gallons of Toluene was not submitted to CERS as part of the Hazardous Material Business Plan. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite for a final Hazardous Materials Business Plan (HMBP) program inspection. Facility is scheduled to close permanently at this location on 7-15-2020. No hazardous materials above the reportable quantities were noted during this inspection. Based on today s inspection, this facility s HMBP program will be inactivated. The facility shall make a California Environmental Reporting System (CERS) submittal to reflect the inactivation of the HMBP program. If this facility becomes subject to the HMBP regulations in the future, the facility shall notify the Environmental Health Department and make all appropriate CERS submittals.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

R & L CARRIERS (Continued) **S118587471**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite for a final Hazardous Waste program inspection. The facility is scheduled to close permanently at this location on 7-15-2020. The following items need to be addressed before hazardous waste program at this facility can be inactivated: 1. Dispose of the 1-gallon plastic container with <=1% uranyl nitrate solution observed during today s inspection, provide final disposal record to the EHD. 2. Dispose of the lead shielded container observed inside the vent hood during today s inspection, provide final disposal record to the EHD 3. Copies of the following initial hazardous waste manifests were received today: 020426971JJK, 020426970JJK, 020427507JJK, 020426954JJK, and 020427517 JJK; provide all final hazardous waste manifests to the EHD, once they become available. 4. Once all remaining hazardous waste has been disposed of, the facility shall make a California Environmental Reporting System (CERS) submittal to reflect the inactivation of the hazardous waste program.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-18-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a Hazardous Materials Business Plan (HMBP) inspection. There were three violations during the inspection .complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 08/17/2018. Notes: The facility has 310 gallons of Isporpynol and listed 220 gallons in CERS chemical inventory. Ensure all th listed chemicals quantities are entered accurately. The chemical inventory form listed the Hot Room and Warehouse as the locations of the hazardous materials on this site. However, these locations were not indicated on the site map. It is recommended to include these locations on the site map.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-19-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Violation is corrected on site. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

R & L CARRIERS (Continued) **S118587471**

Enforcement Action:

Site ID:	573368
Site Name:	Cepheid - Building 4
Site Address:	1330 THURMAN ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	03-19-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	573368
Site Name:	Cepheid - Building 4
Site Address:	1330 THURMAN ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-18-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Coordinates:

Site ID:	573368
Facility Name:	Cepheid - Building 4
Env Int Type Code:	HMBP
Program ID:	10184947
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.128020
Longitude:	-121.249050

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Divya Narasimhan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lana Karpuk
Entity Title:	Not reported
Affiliation Address:	1330 THURMAN ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240

R & L CARRIERS (Continued) **S118587471**

Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	1330 THURMAN ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-5283,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1330 E Thurman Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cepheid Lodi, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Divya Narasimhan
Entity Title:	Engineer/ Yorke Engineering, LLC
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

R & L CARRIERS (Continued) **S118587471**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 541-4191,

HWTS:
Name: R & L CARRIERS
Address: 1330 THURMAN ST
Address 2: Not reported
City,State,Zip: LODI, CA 95240
EPA ID: CAC002877110
Inactive Date: 12/09/2016
Create Date: 09/08/2016
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 4143 JESSUP RD
Mailing Address 2: Not reported
Mailing City,State,Zip: CERES, CA 95307
Owner Name: R & L CARRIERS
Owner Address: 4143 JESSUP RD
Owner Address 2: Not reported
Owner City,State,Zip: CERES, CA 95307
Contact Name: TINA BREEZLEY
Contact Address: 4143 JESSUP RD
Contact Address 2: Not reported
City,State,Zip: CERES, CA 95307
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: -90
Longitude: 180

C13 **AMERICAN MASTERTECH SCIENTIFIC LLC** **HAZNET** **S124920554**
ESE **1330 THURMAN ST** **N/A**
< 1/8 **LODI, CA 95241**
0.021 mi.
112 ft. **Site 3 of 3 in cluster C**

Relative:
Lower

Actual:
59 ft.

HAZNET:
Name: AMERICAN MASTERTECH SCIENTIFIC LLC
Address: 1330 THURMAN ST
Address 2: Not reported
City,State,Zip: LODI, CA 95241
Contact: FRANK FRENES
Telephone: 8008604073
Mailing Name: Not reported
Mailing Address: PO BOX 2539

Year: 2019
Gepaid: CAL000433471
TSD EPA ID: CAD097030993
CA Waste Code: 132 - Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Disposal Method: H070 -
Tons: 2.20000

14
SW
< 1/8
0.042 mi.
220 ft.

SWEETENER PRODUCTS INC
1150 E THURMAN ST
LODI, CA 95240

CERS HAZ WASTE
CERS
HWTS

S121791230
N/A

Relative:
Lower

Actual:
58 ft.

CERS HAZ WASTE:

Name:	SWEETENER PRODUCTS INC
Address:	1150 E THURMAN ST
City,State,Zip:	LODI, CA 95240-3128
Site ID:	72875
CERS ID:	10183781
CERS Description:	Hazardous Waste Generator

CERS:

Name:	SWEETENER PRODUCTS INC
Address:	1150 E THURMAN ST
City,State,Zip:	LODI, CA 95240-3128
Site ID:	72875
CERS ID:	10183781
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted at time of inspection.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/27/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Coordinates:

Site ID:	72875
Facility Name:	SWEETENER PRODUCTS INC
Env Int Type Code:	HWG
Program ID:	10183781
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.127400
Longitude:	-121.254000

SWEETENER PRODUCTS INC (Continued) **S121791230**

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Steve Shanklin
Entity Title:	Not reported
Affiliation Address:	2050 E 38TH STREET
Affiliation City:	VERNON
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1150 E THURMAN ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Kenny Cochrane
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(253) 310-2815,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Steve Shanklin
Entity Title:	Not reported
Affiliation Address:	2050 E. 38th Street
Affiliation City:	Vernon
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90058
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	SWEETENER PRODUCTS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA

SWEETENER PRODUCTS INC (Continued) **S121791230**

Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Legal Owner
Entity Name: ROBERT L SHIPP
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90058
Affiliation Phone: (323) 234-2200,

Name: SWEETENER PRODUCTS INC
Address: 1150 E THURMAN ST
City,State,Zip: LODI, CA 95240-3128
Site ID: 72875
CERS ID: 110038067524
CERS Description: US EPA Air Emission Inventory System (EIS)

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/27/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 72875
Facility Name: SWEETENER PRODUCTS INC
Env Int Type Code: HWG
Program ID: 10183781
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,

SWEETENER PRODUCTS INC (Continued) **S121791230**

Latitude: 38.127400
Longitude: -121.254000

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E 38TH STREET
Affiliation City: VERNON
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1150 E THURMAN ST
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Kenny Cochrane
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (253) 310-2815,

Affiliation Type Desc: Environmental Contact
Entity Name: Steve Shanklin
Entity Title: Not reported
Affiliation Address: 2050 E. 38th Street
Affiliation City: Vernon
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90058
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: SWEETENER PRODUCTS INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported

SWEETENER PRODUCTS INC (Continued) **S121791230**

Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Legal Owner
Entity Name:	ROBERT L SHIPP
Entity Title:	Not reported
Affiliation Address:	2050 E. 38th Street
Affiliation City:	Vernon
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90058
Affiliation Phone:	(323) 234-2200,

HWTS:

Name:	SWEETENER PRODUCTS INC
Address:	1150 E THURMAN ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000280186
Inactive Date:	06/30/2020
Create Date:	03/17/2004
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1150 E THURMAN ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	SWEETENER PRODUCTS CO.
Owner Address:	2050 EAST 38TH STREET
Owner Address 2:	Not reported
Owner City,State,Zip:	VERNON, CA 900580426
Contact Name:	KENNY COCHRANE
Contact Address:	1150 E THURMAN ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.128521
Longitude:	-121.255319

NAICS:

EPA ID:	CAL000280186
Create Date:	2004-03-17 14:44:06.167
NAICS Code:	311999
NAICS Description:	All Other Miscellaneous Food Manufacturing
Issued EPA ID Date:	2004-03-17 14:44:06.12000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	SWEETENER PRODUCTS INC
Facility Address:	1150 E THURMAN ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported

SWEETENER PRODUCTS INC (Continued) **S121791230**

Facility State: CA
Facility Zip: 95240

D15 **LIN DON MACHINING INC** **HAZNET** **S113151228**
NE **270 COMMERCE ST** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.057 mi.
301 ft. **Site 1 of 7 in cluster D**

Relative: Higher

Actual: 60 ft.

HAZNET:

Name:	LIN DON MACHINING INC
Address:	270 COMMERCE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400846
Contact:	ROBERT BENNETT
Telephone:	2093332473
Mailing Name:	Not reported
Mailing Address:	270 COMMERCE ST
Year:	2008
Gepaid:	CAL000328629
TSD EPA ID:	CAL000190816
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.209

Additional Info:

Year:	2008
Gen EPA ID:	CAL000328629
Shipment Date:	20080121
Creation Date:	3/26/2008 18:30:18
Receipt Date:	20080122
Manifest ID:	001738104FLE
Trans EPA ID:	CAL000827878
Trans Name:	AMERICAN VALLEY WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	RIVERBANK OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LIN DON MACHINING INC (Continued) **S113151228**

HWTS:

Name:	LIN DON MACHINING INC
Address:	270 COMMERCE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000328629
Inactive Date:	02/11/2015
Create Date:	01/10/2008
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	270 COMMERCE ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400846
Owner Name:	LIN DON MACHINING INC
Owner Address:	270 COMMERCE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400846
Contact Name:	ROBERT BENNETT
Contact Address:	270 COMMERCE ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400846
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.131007
Longitude:	-121.249275

NAICS:

EPA ID:	CAL000328629
Create Date:	2008-01-10 15:38:03.630
NAICS Code:	336399
NAICS Description:	All Other Motor Vehicle Parts Manufacturing
Issued EPA ID Date:	2008-01-10 15:38:03.60000
Inactive Date:	2015-02-11 00:00:00
Facility Name:	LIN DON MACHINING INC
Facility Address:	270 COMMERCE ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400846

D16 **WESTSIDE GARAGE AUTO REPR** **EDR Hist Auto** **1014164230**
NE **226 COMMERCE ST S** **N/A**
< 1/8 **STOCKTON, CA**
0.082 mi.
433 ft. **Site 2 of 7 in cluster D**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
60 ft. 1965 WESTSIDE GARAGE AUTO REPR AUTOMOBILE REPAIRING

D17 **DARREN YESCAS DBA END OF THE LINE AUTO REPAIR** **HAZNET** **S123625416**
NE **200 COMMERCE ST STE 101** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.107 mi.
563 ft. **Site 3 of 7 in cluster D**

Relative:
Higher

Actual:
60 ft.

HAZNET:

Name:	DARREN YESCAS DBA END OF THE LINE AUTO REPAIR
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400874
Contact:	DARREN YESCAS
Telephone:	2093656077
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Year:	2009
Gepaid:	CAL000317540
TSD EPA ID:	TXD077603371
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.35
Year:	2008
Gepaid:	CAL000317540
TSD EPA ID:	TXD077603371
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.06
Year:	2008
Gepaid:	CAL000317540
TSD EPA ID:	CA0000084517
CA Waste Code:	342 - Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2085
Year:	2008
Gepaid:	CAL000317540
TSD EPA ID:	TXD077603371
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1375

Additional Info:

Year:	2008
Gen EPA ID:	CAL000317540
Shipment Date:	20080410
Creation Date:	8/29/2008 18:30:08
Receipt Date:	20080425
Manifest ID:	001058267SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC

DARREN YESCAS DBA END OF THE LINE AUTO REPAIR (Continued) **S123625416**

Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1375
Waste Quantity:	275
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080404
Creation Date:	8/25/2008 18:30:24
Receipt Date:	20080418
Manifest ID:	001034224SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	F001
Additional Code 2:	D039
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080215
Creation Date:	3/28/2008 18:30:25
Receipt Date:	20080219
Manifest ID:	001027800SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	342 - Organic liquids with metals (see 121
RCRA Code:	Not reported

DARREN YESCAS DBA END OF THE LINE AUTO REPAIR (Continued) **S123625416**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAL000317540
Shipment Date:	20091125
Creation Date:	6/29/2010 18:30:39
Receipt Date:	20091215
Manifest ID:	002328624SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090311
Creation Date:	7/14/2009 18:30:20
Receipt Date:	20090319
Manifest ID:	001509900SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2

DARREN YESCAS DBA END OF THE LINE AUTO REPAIR (Continued) **S123625416**

Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	DARREN YESCAS DBA END OF THE LINE AUTO REPAIR
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000317540
Inactive Date:	06/30/2010
Create Date:	03/15/2007
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400841
Owner Name:	DARREN YESCAS
Owner Address:	1124 S COUNTRY CLUB BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	STOCKTON, CA 952045018
Contact Name:	DARREN YESCAS
Contact Address:	200 COMMERCE ST # STE101
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400874
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.131798
Longitude:	-121.2493

NAICS:

EPA ID:	CAL000317540
Create Date:	2007-03-15 14:01:07.520
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2007-03-15 14:01:07.50300
Inactive Date:	2010-06-30 00:00:00
Facility Name:	DARREN YESCAS DBA END OF THE LINE AUTO REPAIR
Facility Address:	200 COMMERCE ST STE 101
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400874

D18 **JOE'S AUTOMOTIVE OF LODI** **HAZNET** **S113799589**
NE **200 COMMERCE ST STE 101** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.107 mi.
563 ft. **Site 4 of 7 in cluster D**

Relative:
Higher

Actual:
60 ft.

HAZNET:

Name:	JOE'S AUTOMOTIVE OF LODI
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400874
Contact:	JOSE GOMEZ
Telephone:	2093679860
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Year:	2012
Gepaid:	CAL000364364
TSD EPA ID:	CAT080012602
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2085

Additional Info:

Year:	2012
Gen EPA ID:	CAL000364364
Shipment Date:	20120726
Creation Date:	5/20/2014 14:03:33
Receipt Date:	20120730
Manifest ID:	008689914JJK
Trans EPA ID:	CAR000171017
Trans Name:	FREMOUW ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080012602
Trans Name:	DK DIXON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	JOE'S AUTOMOTIVE OF LODI
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported

JOE'S AUTOMOTIVE OF LODI (Continued) **S113799589**

City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000364364
Inactive Date:	06/30/2015
Create Date:	06/08/2011
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400874
Owner Name:	JOSE GOMEZ
Owner Address:	200 COMMERCE ST STE 101
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400874
Contact Name:	JOSE GOMEZ
Contact Address:	200 COMMERCE ST STE 101
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400874
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.131839
Longitude:	-121.2488955

NAICS:

EPA ID:	CAL000364364
Create Date:	2011-06-08 09:37:37.760
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2011-06-08 09:37:37.73000
Inactive Date:	2015-06-30 00:00:00
Facility Name:	JOE'S AUTOMOTIVE OF LODI
Facility Address:	200 COMMERCE ST STE 101
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400874

D19 **JOES AUTOMOTIVE OF LODI** **CERS HAZ WASTE** **S121766727**
NE **200 COMMERCE ST #101** **CERS** **N/A**
< 1/8 **LODI, CA 95240**
0.107 mi.
563 ft. **Site 5 of 7 in cluster D**

Relative:
Higher

Actual:
60 ft.

CERS HAZ WASTE:

Name:	JOES AUTOMOTIVE OF LODI
Address:	200 COMMERCE ST #101
City,State,Zip:	LODI, CA 95240
Site ID:	361480
CERS ID:	10184575
CERS Description:	Hazardous Waste Generator

CERS:

Name:	JOES AUTOMOTIVE OF LODI
Address:	200 COMMERCE ST #101
City,State,Zip:	LODI, CA 95240
Site ID:	361480

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

CERS ID: 10184575
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/08/2017. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: OBSERVATION: The facility could not provide all of the consolidated manifest receipts for hazardous waste transported from the site in the past three years. The missing receipts include: -07/18/2019 for used oil -10/28/2019 for used antifreeze -2/25/2020 for used oil -07/02/2020 for used antifreeze REGULATION GUIDANCE: The generator shall retain each consolidated manifest receipt for at least three years. This period of retention is extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the department or a certified unified program agency. CORRECTIVE ACTION: Locate a copy of the receipts listed above. Maintain the records on-site for three years from the date of shipping and provide a copy to the San Joaquin County Environmental Health Department (EHD). If the receipts cannot be found, provide a statement to the EHD that future receipts will be maintained on-site for three years.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1

Violation Notes: OBSERVATION: A training program was lacking. The facility reported in CERS that they are exempt from a training plan because they have "no employees". Owner Jose Gomez confirmed during the inspection that he has one employee. REGULATION GUIDANCE: Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration the position o

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2

Violation Description: Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.

Violation Notes: Returned to compliance on 07/27/2018. Copies of hazardous waste disposal records for 2015 were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

1, Section(s) 265.31

Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..

Violation Notes: Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area are dark oil stains on the unpaved ground. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the contaminated rocks, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130

Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.

Violation Notes: Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area is an unlabeled five gallon bucket of drained used oil filters that has been left open. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately keep all drained used oil filters in a closed container, labeled as "drained used oil filters", and ensure that all used oil filters are managed in this way. Bills of lading for the recycling of used oil filters for the 2015 year was not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading for used oil filters for the last three years, maintain them on site, and submit copies to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)

Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.

Violation Notes: OBSERVATION: Facility could not provide the Emergency Response Plan and the inventory information upon request. REGULATION GUIDANCE: The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. CORRECTIVE ACTION: Immediately make

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

arrangements to have the business plan readily available for review.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: OBSERVATION: The emergency response(ER) plan is inaccurate. The employee training (section I) was marked "Not applicable because facility has not employees". This information is inaccurate because owner Jose Gomez confirmed during the inspection that he has one employee. REGULATION GUIDANCE: A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submi
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 07/24/2018. Outside behind the shop at the hazardous waste storage area is a partially full 55 gallon drum of hazardous waste coolant that was left open. Next to the open drum of hazardous waste coolant are three partially full five gallon buckets of used oil that have been left open. Jose Gomez confirmed that he considers his metal fines a hazardous waste. Inside the shop, the hazardous waste metal fines from the brake lathe machine have been allowed to accumulate in two, open, and unlabeled containers. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Violation Date:	10-06-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2021. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: -one black metal 55 gallon drum of used filters was missing contents -one blue metal 55 gallon drum of used oil had an old label that was faded and no longer legible -one red metal 55 gallon drum of used oil had an old label that was faded and no longer legible -one white plastic 55 gallon drum of used antifreeze had an old label that was faded and no longer legible -one black metal 55 gallon drum of used filters was not labeled REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: This violation was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	02-08-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 02/08/2017. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	12-09-2015
Citation:	HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 02/08/2017. A submission to the California Electronic Reporting System (CERS) for the hazardous waste program has not been made. Beginning January 1, 2013, all businesses are required to submit all new (or any changes to existing) hazardous waste information online to the CERS at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

	section in CERS in addition to any other relevant activities and required fields.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	02-08-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 02/08/2017. The emergency response procedures were not uploaded to CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	OBSERVATION: This business did not provide a written response to the inspection report dated 12/09/2015 within 30 days. The amended report was provided to the business on 12/10/2015. REGULATION GUIDANCE: The operator of the site or facility which receives an inspection report shall submit a written response to the department or the local officer or agency authorized to enforce this chapter pursuant to subdivision (a) of Section 25180 within 60 days of receipt of the inspection report, or within a shorter time as the department or the local officer or agency may reasonably require, which shall include a statement documenting corrective actions taken by the operator or proposing corrective actions which will be taken by the operator, for purposes of compliance with this chapter, or disputing the existence of the violation. The local agency, the San Joaquin County Environmental Health Department, requires response within 30 days. CORRECTIVE ACTION: Provide a corrective action st
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	OBSERVATION: The following hazardous waste containers were found on-site with an accumulation start date of greater than 180 days: 1 black metal 55 gallon drum of used filters had an accumulation start date of 03/22/2016. REGULATION GUIDANCE: Title 22 California Code of Regulations section 66262.34. CORRECTIVE ACTION: Immediately dispose of the hazardous waste stored on site greater than 180 days in compliance with Title 22 California Code of Regulations. Provide a corrective action statement and a copy of the disposal records to the San Joaquin County Environmental Health Department (EHD) within 30 days.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	12-09-2015
Citation:	40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description:	Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes:	Returned to compliance on 07/24/2018. Inside the shop is a black 55 gallon drum that Jose states he is using for used oil storage. This container is partially full, unlabeled and dented. Hazardous waste shall be stored in a container that is in good condition. Immediately transfer all hazardous wastes into containers that are in good condition or have hazardous wastes properly disposed of by a licensed hazardous waste hauler under a proper manifest. Submit a copy of the disposal receipt.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	OBSERVATION: Observed one black metal 55 gallon drum of drained used metal oil filters to be out of compliance with the storage rules. REGULATION GUIDANCE: Title 22 California Code of Regulations section

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

66266.130 Management of Used Oil Filters. California Health & Safety Code section 25250.22 Fuel Filters CORRECTIVE ACTION: Immediately drain all metal oil and fuel filters of free-flowing liquid, store them in closed, rainproof containers. Label the container with the words drained used oil filters or "used gasoline filters", depending on the contents. Mark the container with an accumulation start date. Dispose of all used filters stored on-site greater than one year. Used filters not stored, handled and disposed of according to this section are regulated as hazardous waste. Provide a corrective action statement, disposal records and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 12-09-2015
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain disposal records of spent lead batteries for three years.
Violation Notes: Returned to compliance on 07/27/2018. Bills of lading or manifests for the management of lead acid batteries for 2012, 2013, and 2015 were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading or manifests for lead acid batteries for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: OBSERVATION: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was last submitted on 02/08/2017. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: OBSERVATION: The site map is incomplete. The site map is missing the following required elements: -loading area -internal roads -storm drain: 1 storm drain was observed in the parking lot -emergency shut-offs REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/08/2017. 110 gallons waste oil, 110 gallons waste antifreeze, 110 gallons new oil were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: 22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description: Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the container or inner liner back to the supplier for the purpose of being

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.

Violation Notes: OBSERVATION: Three empty 55 gallon drums which previously held a hazardous material were observed outside on the south end of the garage without proper labeling. REGULATION GUIDANCE: Empty containers which previously held a hazardous material, including hazardous waste must be managed per Title 22 California Code of Regulations (CCR) section 66261.7. Refer to this section and California Department of Toxic Substances Control guidance for more information. CORRECTIVE ACTION: Immediately label all empty containers with the date they were emptied and manage within one year of that date. Manage the container per Title 22 CCR section 66261.7. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 02-08-2017
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 02/08/2017. The Business Owner/Operator Identification form was not submitted . This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 361480
Site Name: JOES AUTOMOTIVE OF LODI
Violation Date: 10-06-2021
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain for at least three years a legible copy of each manifest or bill of lading which identifies spent lead-acid storage batteries shipped to a person who stores the batteries or who uses, reuses, recycles or reclaims the batteries or their components.
Violation Notes: OBSERVATION: Bills of lading for the recycling of lead acid batteries from 10/06/2018 through 10/06/2021 were not found on site. REGULATION GUIDANCE: Title 22 California Code of Regulations section 66266.81 Requirements CORRECTIVE ACTION: Provide copies of battery core bill of lading records and a corrective action statement to the San Joaquin County Environmental Health Department within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	10-06-2021
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	OBSERVATION: Training has not been provided to facility employees. REGULATION GUIDANCE: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appropri
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Violation Date:	12-09-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/27/2018. Outside behind the shop at the hazardous waste storage area were found the following containers: - Three, unlabeled, and partially full five gallon buckets of used oil that have been left open. - An open, partially full, 55 gallon drum of hazardous waste coolant has a blank and illegible hazardous waste label. - A closed partially full 55 gallon drum of hazardous waste coolant does not have any of the required hazardous waste labeling information on it. - Thirteen closed and unlabeled one gallon containers of used oil. - One closed and unlabeled two liter container of used oil. - Three (one red, one blue, and one black) 55 gallon drums of used oil that do not have all the required hazardous waste labeling information on it. - The black drum does not have any of the required hazardous waste labeling information on it. - The blue and the red one have hazardous waste labels that incompletely list the company name and the wrong street address on it. Jose [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 6 violations during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 5, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-08-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/10/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 5, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report, return to compliance certification form, corrective action statement, and list of free CUPA classes. Waste streams found: used oil, used antifreeze, used filters, shop rags, aerosol cans, parts washer solution and lead-acid batteries Note: Discussed with owner Jose Gomez regarding the facility's expired California EPA identification number.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-09-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. This report was revised on 12-10-15. This is an amended report that supersedes all previously issued reports for this inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1-15-16. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. Note: This facility has the following waste streams: - used oil - used coolant - oily water - drained used oil filters - used parts washer solution - spent lead acid batteries
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Site Address:	200 COMMERCE ST #101
Site City:	LODI
Site Zip:	95240
Enf Action Date:	02-08-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	361480
Site Name:	JOES AUTOMOTIVE OF LODI
Site Address:	200 COMMERCE ST #101
Site City:	LODI
Site Zip:	95240
Enf Action Date:	12-09-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Jose A Gomez
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: GOMEZ, JOSE
Entity Title: Not reported
Affiliation Address: 200 COMMERCE ST #101
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 367-9860,

Affiliation Type Desc: Parent Corporation
Entity Name: JOES AUTOMOTIVE OF LODI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 200 COMMERCE ST #101
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Jose A Gomez
Entity Title: Not reported
Affiliation Address: 200 Commerce St. Ste 101
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: GOMEZ, JOSE
Entity Title: Not reported

JOES AUTOMOTIVE OF LODI (Continued) **S121766727**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 367-9860,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jamie Lima
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

D20 **BILL COOK** **HAZNET S113460719**
NE **200 COMMERCE ST** **HWTS N/A**
< 1/8 **LODI, CA 95240**
0.107 mi.
563 ft. **Site 6 of 7 in cluster D**

Relative: **Higher**

Actual: **60 ft.**

HAZNET:

Name:	BILL COOK
Address:	200 COMMERCE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400874
Contact:	BILL COOK
Telephone:	2096109773
Mailing Name:	Not reported
Mailing Address:	PO BOX 1000
Year:	2010
Gepaid:	CAC002654265
TSD EPA ID:	CAD980675276
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.15
Year:	2010
Gepaid:	CAC002654265
TSD EPA ID:	CAD059494310
CA Waste Code:	512 - Other empty containers 30 gallons or more
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Year:	2010
Gepaid:	CAC002654265
TSD EPA ID:	CAD044429835
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.7

BILL COOK (Continued) **S113460719**

Additional Info:

Year:	2010
Gen EPA ID:	CAC002654265
Shipment Date:	20100617
Creation Date:	9/10/2010 18:31:02
Receipt Date:	20100702
Manifest ID:	000030042MWI
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100617
Creation Date:	12/16/2010 18:30:26
Receipt Date:	20100705
Manifest ID:	000030044MWI
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.7
Waste Quantity:	1400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100617
Creation Date:	9/10/2010 18:30:08
Receipt Date:	20100623

BILL COOK (Continued) **S113460719**

Manifest ID:	000030043MWI
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100617
Creation Date:	9/10/2010 18:30:08
Receipt Date:	20100623
Manifest ID:	000030043MWI
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	BILL COOK
Address:	200 COMMERCE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAC002654265
Inactive Date:	11/30/2010
Create Date:	06/02/2010
Last Act Date:	Not reported
Mailing Name:	Not reported

BILL COOK (Continued) **S113460719**

Mailing Address:	PO BOX 1000
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LOCKEFORD, CA 952370069
Owner Name:	BILL COOK
Owner Address:	PO BOX 1000
Owner Address 2:	Not reported
Owner City,State,Zip:	LOCKEFORD, CA 952370069
Contact Name:	BILL COOK
Contact Address:	PO BOX 1000
Contact Address 2:	Not reported
City,State,Zip:	LOCKEFORD, CA 952370069
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	38.131798
Longitude:	-121.2493

D21 **END OF THE LINE AUTO REPAIR** **HAZNET** **S113117320**
NE **200 COMMERCE ST STE 101** **HWTS** **N/A**
< 1/8 **LODI, CA 95240**
0.107 mi.
563 ft. **Site 7 of 7 in cluster D**

Relative:
Higher

Actual:
60 ft.

HAZNET:

Name:	END OF THE LINE AUTO REPAIR
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Contact:	SHARON POTEET
Telephone:	2093656077
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Year:	2007
Gepaid:	CAL000241686
TSD EPA ID:	TXD077603371
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.195

Additional Info:

Year:	2007
Gen EPA ID:	CAL000241686
Shipment Date:	20071130
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071227
Manifest ID:	000636086SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	TXD077603371

END OF THE LINE AUTO REPAIR (Continued) **S113117320**

TSDF Alt Name:	SAFETY KLEEN SYS
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.195
Waste Quantity:	390
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	END OF THE LINE AUTO REPAIR
Address:	200 COMMERCE ST STE 101
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000241686
Inactive Date:	03/15/2007
Create Date:	01/15/2002
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	200 COMMERCE ST STE 101
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	MIKE POTEET
Owner Address:	200 COMMERCE ST STE 101
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI 952400841
Contact Name:	SHARON POTEET
Contact Address:	200 COMMERCE ST STE 101
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.131784
Longitude:	-121.249214

NAICS:

EPA ID:	CAL000241686
Create Date:	2002-03-14 16:36:30.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2002-01-15 00:00:00
Inactive Date:	2007-03-15 00:00:00
Facility Name:	END OF THE LINE AUTO REPAIR
Facility Address:	200 COMMERCE ST STE 101
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400000

22
NW
< 1/8
0.115 mi.
609 ft.

PREMIER FINISHING
903 E LODI AVE
LODI, CA 95240

HAZNET **S113106675**
HWTS **N/A**

Relative:
Lower

Actual:
54 ft.

HAZNET:

Name:	PREMIER FINISHING
Address:	903 E LODI AVE
Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Contact:	WENDY FOULKS-SAFETY MGR
Telephone:	2093677585
Mailing Name:	Not reported
Mailing Address:	7910 S LONGE STREET
Year:	2000
Gepaid:	CAL000209429
TSD EPA ID:	CAD028409019
CA Waste Code:	342 - Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	T01 - Treatment, Tank
Tons:	0.2293
Year:	2000
Gepaid:	CAL000209429
TSD EPA ID:	Not reported
CA Waste Code:	461 - Paint sludge
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.3544
Year:	2000
Gepaid:	CAL000209429
TSD EPA ID:	Not reported
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	D99 - Disposal, Other
Tons:	0.2085

Additional Info:

Year:	2000
Gen EPA ID:	CAL000209429
Shipment Date:	20000922
Creation Date:	12/8/2000 0:00:00
Receipt Date:	20000929
Manifest ID:	20087310
Trans EPA ID:	CA0000646497
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	342 - Organic liquids with metals (see 121
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.2293

PREMIER FINISHING (Continued) **S113106675**

Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000106
Creation Date:	4/4/2000 0:00:00
Receipt Date:	20000120
Manifest ID:	99106273
Trans EPA ID:	CA0000646497
Trans Name:	Not reported
Trans 2 EPA ID:	CAL931024038
Trans 2 Name:	Not reported
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000106
Creation Date:	4/4/2000 0:00:00
Receipt Date:	20000120
Manifest ID:	99106273
Trans EPA ID:	CA0000646497
Trans Name:	Not reported
Trans 2 EPA ID:	CAL931024038
Trans 2 Name:	Not reported
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.3544
Waste Quantity:	85
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

PREMIER FINISHING (Continued) **S113106675**

HWTS:

Name:	PREMIER FINISHING
Address:	903 E LODI AVE
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000209429
Inactive Date:	06/30/2000
Create Date:	01/04/2000
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7910 S LONGE STREET
Mailing Address 2:	Not reported
Mailing City,State,Zip:	STOCKTON, CA 952060000
Owner Name:	GRAIG WALTERS
Owner Address:	903 E LODI AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400000
Contact Name:	WENDY FOULKS-SAFETY MGR
Contact Address:	INACTIVE PER VQ01 - BMI
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.130865
Longitude:	-121.254908

E23 **CERTAINTEED CORP** **RCRA-SQG** **1000152527**
West **300 SOUTH BECKMAN ROAD** **SWEEPS UST** **CAD094881067**
1/8-1/4 **LODI, CA 95240** **HIST UST**
0.127 mi. **CA FID UST**
671 ft. **Site 1 of 3 in cluster E** **CIWQS**

Relative: **Lower**
Actual: **54 ft.**

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	CERTAINTEED CORP	
Handler Address:		300 SOUTH BECKMAN ROAD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD094881067
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Municipal
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		300 S BECKMAN ROAD
Mailing City,State,Zip:		LODI, CA 95240

CERTAINTEED CORP (Continued) **1000152527**

Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported

CERTAINTEED CORP (Continued) **1000152527**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:

Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D008
Waste Description: LEAD

Waste Code: D018
Waste Description: BENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED

CERTAINTEED CORP (Continued) **1000152527**

SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CERTAINTEED CORP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	750 E SWEDESFORD RD
Owner/Operator City,State,Zip:	VALLEY FORGE, PA 19482-0101
Owner/Operator Telephone:	610-341-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: CERTAINTEED CORP	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800818
Handler Name: CERTAINTEED CORP	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

CERTAINTEED CORP (Continued) **1000152527**

List of NAICS Codes and Descriptions:
NAICS Code: 33711
NAICS Description: WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19840214
Actual Return to Compliance Date: 19850724
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19840229
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported

CERTAINTEED CORP (Continued) **1000152527**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850724
Actual Return to Compliance Date: 19850724
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19850724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

CERTAINTEED CORP (Continued) **1000152527**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19880825
Actual Return to Compliance Date:	19891028
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Transporters - General
Date Violation was Determined:	19880825
Actual Return to Compliance Date:	19891028
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

CERTAINTEED CORP (Continued) **1000152527**

Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Formal Enforcement Agreement or Order
Date Violation was Determined: 19840214
Actual Return to Compliance Date: 19850724
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19840229
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

CERTAINTEED CORP (Continued) **1000152527**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19850724
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19840214
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891028
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

CERTAINTEED CORP (Continued) **1000152527**

Former Citation:	Not reported
Evaluation Date:	19880825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891028
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19840214
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19850724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SWEEPS UST:

Name:	TRIANGLE PACIFIC CORPORATION
Address:	300 S BECKMAN RD
City:	LODI
Status:	Not reported
Comp Number:	2347
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-002347-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

HIST UST:

Name:	TRIANGLE PACIFIC CORP
Address:	300 SOUTH BECKMAN ROAD
City,State,Zip:	LODI, CA 95240
File Number:	0002B4F5
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B4F5.pdf

CERTAINTEED CORP (Continued) **1000152527**

Region: STATE
Facility ID: 00000067253
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: PETE DEFOTIF
Telephone: 2093344467
Owner Name: TRIANGLE PACIFIC CORP.
Owner Address: 16803 DALLAS PARKWAY
Owner City,St,Zip: DALLAS, TX 75248
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 1
Container Construction Thickness: X
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 39001880
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093344467
Mail To: Not reported
Mailing Address: 300 S BECKMAN RD
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CIWQS:
Name: CERTAINTEED CORP
Address: 300 SO BECKMAN RD
City,State,Zip: LODI, CA 95240
Agency: Certainteed Corp
Agency Address: 750 E Swedesford Rd, Valley Forge, CA 19482
Place/Project Type: Industrial - Plastics Pipe
SIC/NAICS: 3084
Region: 5S
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 5S39I014240
NPDES Number: CAS000001

CERTAINTEED CORP (Continued) **1000152527**

Adoption Date:	Not reported
Effective Date:	06/25/1998
Termination Date:	07/08/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.13099
Longitude:	-121.257

E24 **TRIANGLE PACIFIC CORP** **UST** **U004260726**
West **300 S BECKMAN RD** **N/A**
1/8-1/4 **LODI, CA 95240**
0.127 mi.
671 ft. **Site 2 of 3 in cluster E**

Relative: **Lower**

Actual: **54 ft.**

UST SAN JOAQUIN:

Name:	TRIANGLE PACIFIC CORP
Address:	300 S BECKMAN RD
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0005948
Mail Address:	300 S BECKMAN
Mail Address 2:	Not reported
Mail Care of:	TRAINGLE PACIFIC CORP
Mail City,St,Zip:	LODI, CA 95240
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	550
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

E25 **NORTH AMERICAN SPECIALTY PRODUCTS LLC** **CERS HAZ WASTE** **S121774700**
West **300 S BECKMAN RD** **CERS TANKS** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.127 mi.
671 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
54 ft.

CERS HAZ WASTE:
Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address: 300 S BECKMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 398317
CERS ID: 10183989
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address: 300 S BECKMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 398317
CERS ID: 10183989
CERS Description: Aboveground Petroleum Storage

CERS:
Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Address: 300 S BECKMAN RD
City,State,Zip: LODI, CA 95240
Site ID: 398317
CERS ID: 10183989
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 398317
Site Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Violation Date: 11-12-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/11/2015. Aerosol cans were processed and notification of treatment by the new business was not submitted to the EHD. The new business of North American Specialty Products began operations during May 2013. Notification shall be provided to the EHD person or by certified mail, with return receipt requested, before initiating this process. The notification shall include, but not limited to, all of the following information: - name, identification number, site address, mailing address, and telephone number of the handler - description of the aerosol can processing activities, including the type and estimated volumes or quantities of aerosol cans to be processed monthly, the treatment process, equipment description, and design capacities - description of the characteristics and management of any hazardous waste residuals Immediately submit notification for aerosol can processing with the required information to the EHD in person or by certified mail, with return receipt [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398317
Site Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Violation Date: 11-12-2015
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 12/07/2015. The drum of drained used oil filters was marked with the accumulation start date of 6-14-14. These filters have been on site longer than one year. Facilities that generate up to one ton of used oil filters per year may store the filters up to one year. Facilities that generate one ton or more of used oil filters may store the filters for up to 180 days. Immediately recycle these filters under a bill of lading and submit a copy of the bill of lading to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398317
Site Name: NORTH AMERICAN SPECIALTY PRODUCTS LLC
Violation Date: 11-12-2015
Citation: 40 CFR 1 262.34(d)(5)(i) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(i)
Violation Description: Failure to have an emergency coordinator or a designee onsite during operating hours.
Violation Notes: Returned to compliance on 12/11/2015. An emergency coordinator for this facility has not been assigned. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 10/29/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 12-12-15. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	398317
Site Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Site Address:	300 S BECKMAN RD
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-12-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	398317
Facility Name:	NORTH AMERICAN SPECIALTY PRODUCTS LLC
Env Int Type Code:	APSA
Program ID:	10183989
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.129660
Longitude:	-121.254650

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Catherine C Lyden
Entity Title:	Sr. HSE Specialist-Building Products Group
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	North American Pipe Corporation
Entity Title:	Not reported
Affiliation Address:	300 S BECKMAN RD

NORTH AMERICAN SPECIALTY PRODUCTS LLC (Continued) **S121774700**

Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 365-2050,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	300 S BECKMAN RD
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	PPG LODI 0343 / 110775
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 365-2050,
Affiliation Type Desc:	Parent Corporation
Entity Name:	North American Specialty Products
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jeff Remy
Entity Title:	Not reported
Affiliation Address:	300 S. Beckman Rd
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,

F26 **B&G INDUSTRIES** **SEMS-ARCHIVE** **1003877985**
NNW **100 S CLUFF AVE** **CAD982359184**
1/8-1/4 **LODI, CA 95240**
0.134 mi.
709 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
60 ft.

SEMS Archive:

Site ID:	0900114
EPA ID:	CAD982359184
Name:	B&G INDUSTRIES
Address:	100 S CLUFF AVE
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Cong District:	14
FIPS Code:	06077
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0900114
EPA ID:	CAD982359184
Site Name:	B&G INDUSTRIES
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1991-06-26 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0900114
EPA ID:	CAD982359184
Site Name:	B&G INDUSTRIES
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1991-06-26 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0900114
EPA ID:	CAD982359184
Site Name:	B&G INDUSTRIES
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1

B&G INDUSTRIES (Continued) **1003877985**

Start Date:	1987-12-01 05:00:00
Finish Date:	1987-12-01 05:00:00
Qual:	Not reported
Current Action Lead:	St Perf
Region:	09
Site ID:	0900114
EPA ID:	CAD982359184
Site Name:	B&G INDUSTRIES
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-11-21 05:00:00
Qual:	L
Current Action Lead:	St Perf

F27 **B & G INDUSTRIES** **ENVIROSTOR** **S101482066**
NNW **100 S CLUFF AVE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.134 mi.
709 ft. **Site 2 of 3 in cluster F**

Relative: **Higher**

Actual: **60 ft.**

ENVIROSTOR:

Name:	B & G INDUSTRIES
Address:	100 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Facility ID:	39240005
Status:	No Further Action
Status Date:	12/10/1991
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Sacramento
Assembly:	09
Senate:	05
Special Program:	* CERC2
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.13237
Longitude:	-121.2521
APN:	04909039
Past Use:	UNKNOWN
Potential COC:	* ORGANIC LIQUIDS WITH METALS * CONTAMINATED SOIL Lead Chromium VI
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	B & G MACHINERY

B & G INDUSTRIES (Continued) **S101482066**

Alias Type:	Alternate Name
Alias Name:	GRIFFIN PROPERTY
Alias Type:	Alternate Name
Alias Name:	04909039
Alias Type:	APN
Alias Name:	39240005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	03/04/1982
Comments:	FACILITY IDENTIFIED DRIVEBY

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	12/10/1991
Comments:	Site Screening completed including driveby. Recommend NFA by DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	02/23/1988
Comments:	PRELIM ASSESS DONE SI MED RECOMMENDED BASED ON POTENTIAL CONTAMINATION Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	02/02/1987
Comments:	SITE SCREENING DONE NO CLEANUP CONFIRMED, NO FILE FOUND

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

F28 **TOKAY VALLEY RECYCLING INC** **SWRCY** **S110071979**
North **60 S CLUFF AVE** **NPDES** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.159 mi.
838 ft. **Site 3 of 3 in cluster F**

Relative: SWRCY:
Lower

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Reg Id:	43476
Cert Id:	RC14663
Mailing Address:	60 S Cluff Ave
Mailing City:	Lodi

Actual:
59 ft.

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Mailing State:	CA
Mailing Zip Code:	95240
Website:	Not reported
Email:	Not reported
Phone Number:	(209) 339-4990
Rural:	N
Operation Begin Date:	01/01/2010
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon - Sun 8:00 am - 4:30 pm
Organization ID:	43476
Organization Name:	Tokay Valley Recycling Inc

NPDES:

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39I015999
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/07/2000
Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	201827
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	08/07/2000
Status:	Active
Status Date:	08/07/2000
Place Size:	1
Place Size Unit:	Acres
Contact:	Justin Lawrence
Contact Title:	President
Contact Phone:	209-339-4990
Contact Phone Ext:	Not reported
Contact Email:	jlawrence@tokayrecycling.com
Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Justin Lawrence
Operator Contact Title:	Not reported
Operator Contact Phone:	209-339-4990
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jlawrence@tokayrecycling.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-339-4990
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Justin Lawrence
Certifier Title:	President
Certification Date:	29-JUN-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	201827
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/07/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tokay Valley Recycling Inc
Discharge Address:	60 S Cluff Ave
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	201827
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39I015999
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/07/2000
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	60 S Cluff Ave
Discharge Name:	Tokay Valley Recycling Inc
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	201827
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	08/07/2000
Status:	Active
Status Date:	08/07/2000
Place Size:	1
Place Size Unit:	Acres
Contact:	Justin Lawrence
Contact Title:	President
Contact Phone:	209-339-4990
Contact Phone Ext:	Not reported
Contact Email:	jlawrence@tokayrecycling.com
Operator Name:	Tokay Valley Recycling Inc
Operator Address:	60 S Cluff Ave
Operator City:	Lodi
Operator State:	California
Operator Zip:	95240
Operator Contact:	Justin Lawrence
Operator Contact Title:	Not reported
Operator Contact Phone:	209-339-4990
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jlawrence@tokayrecycling.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-339-4990
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Justin Lawrence
Certifier Title:	President
Certification Date:	29-JUN-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	201827
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I015999
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/07/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tokay Valley Recycling Inc
Discharge Address:	60 S Cluff Ave
Discharge City:	Lodi
Discharge State:	California
Discharge Zip:	95240
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CERS:

Name:	TOKAY VALLEY RECYCLING INC
Address:	60 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Site ID:	416659
CERS ID:	10182779
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Notes:	Returned to compliance on 04/23/2018. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2021
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-22-2004
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	01-08-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 01/15/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2012
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit an annual report by July 1, 2012
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	08-15-2015
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2014-2015 Annual Report by due date
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	03-30-2006
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	NOV for submitting an incomplete annual report for 2005/2006
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/23/2018. The emergency response procedures were not uploaded on CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2011

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit annual report by July 1, 2011
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2005
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Failure to submit complete 2004-2005 annual report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2013
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit annual report by July 1, 2013.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2019
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2018-2019 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-15-2017
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	late 16-17 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2006
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2005-2006 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division:	Water Boards
Violation Program:	INDSTW

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2005
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2004-2005 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2009
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2008-2009 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report by July 1st.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/23/2018. The business plan chemical inventory and site map has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2010
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2013/2014 annual report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: Ineffective BMPs and no SWPPP
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-13-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: Failure to collect and analyze storm water runoff
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late 2017-2018 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-20-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5/20/2018. Please be aware as of January 1, 2013, all

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2004
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2014
Violations Found: Yes
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: On 2 July 2014, Central Valley Regional Water Quality Control Board staff inspected Tokay Valley Recycling. The facility is located at 60 South Cluff Ave in Lodi. The facility includes a pallet manufacturing/re-manufacturing operation and a recycling operation. Staff met with the owner, Justin Lawrence. The facility accepts and recycles metals, pallets, appliances, paper, e-waste, bimetal and CRV materials. The facility has been in operation for 24 years and has had coverage under the Industrial General Permit (IGP) since 2001. On 4/22/2004, staff conducted a storm water inspection and determined that the facility had failed to sample storm water events, did not have a complete SWPPP and failed to have an on-site monitoring program. On 09/13/2004, a Notice of Violation (NOV) was issued to the facility. Multiple other NOVs and Notice of Noncompliance (NNCs) were issued to the facility for late annual reports. During the 2 July 2014 inspection, staff again determined that the facility did not have a Storm Water Pollution Prevention Plan (SWPPP). It was unclear if the facility had a written sampling plan. The facility recently had a fire that significantly damaged the asphalt surface in the back of the facility. The facility had two separate businesses and SIC codes within one main building. The pallet manufacturing and re-manufacturing operation was located in the back portion of the building and the recycling operation was located in the front part of the building (see attachment section for the full inspection report and photographs).
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

Enforcement Action:
Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 01-08-2014

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-30-2007
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for submitting incomplete annual report for 2005/2006.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-20-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-13-2018
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: Failure to collect and analyze storm water runoff
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-23-2009
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NONC 08/09 Late Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-29-2014
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-03-2017
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NNC for late 16-17 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-11-2005
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: Notice of storm water non-compliance for failure to submit storm water annual report for the 2004/05 reporting year.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-15-2014
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for failure to submit annual report.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2013
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2018
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2017-2018 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-17-2006
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of Storm water non-compliance issued for failure to submit 2005-2006 Annual Storm Water Report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-19-2010
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC For Late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-24-2011

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-27-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-30-2021
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for Late 2020-2021 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-31-2012
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-02-2005
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Notice of violation for failure to submit complete storm water annual report for the 2004/05 reporting year
Enf Action Division:	Water Boards

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-13-2004
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-16-2015
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2014-2015 Annual Report by due date
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	10-04-2017
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	2nd NNC for late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	11-19-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Coordinates:

Site ID:	416659
Facility Name:	TOKAY VALLEY RECYCLING INC
Env Int Type Code:	HMBP
Program ID:	10182779
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.132720
Longitude:	-121.251810

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	LAWRENCE, JUSTIN
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 339-4990,
Affiliation Type Desc:	Operator
Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 339-4990,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Owner/Operator
Entity Name:	Tokay Valley Recycling Inc
Entity Title:	Operator
Affiliation Address:	60 S Cluff Ave60 S Cluff Ave
Affiliation City:	Lodi

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Parent Corporation
Entity Name: TOKAY VALLEY RECYCLING INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: TOKAY VALLEY RECYCLING INC
Address: 60 S CLUFF AVE
City,State,Zip: LODI, CA 95240
Site ID: 416659
CERS ID: 264630
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 04-20-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 04/23/2018. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2021

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2020-2021 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SWPPP
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-22-2004
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	01-08-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 01/15/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2012
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit an annual report by July 1, 2012
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	08-15-2015
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2014-2015 Annual Report by due date
Violation Division:	Water Boards

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 03-30-2006
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: NOV for submitting an incomplete annual report for 2005/2006
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 04-20-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 04/23/2018. The emergency response procedures were not uploaded on CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit annual report by July 1, 2011
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2005
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Failure to submit complete 2004-2005 annual report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2013
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit annual report by July 1, 2013.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2019
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2018-2019 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2017
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: late 16-17 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2006
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2005-2006 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-01-2005
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2004-2005 annual report. Section B requires all annual reports to be submitted by July 1st of each year. Discharger did not submit report.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-02-2009

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2008-2009 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report by July 1st.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	04-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/23/2018. The business plan chemical inventory and site map has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2010
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-01-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2013/2014 annual report.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Violation Date:	07-02-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Ineffective BMPs and no SWPPP
Violation Division:	Water Boards
Violation Program:	INDSTW

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-13-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SWPPP
Violation Notes: Failure to collect and analyze storm water runoff
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Violation Date: 07-15-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late 2017-2018 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-20-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5/20/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2004
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2014
Violations Found:	Yes
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	On 2 July 2014, Central Valley Regional Water Quality Control Board staff inspected Tokay Valley Recycling. The facility is located at 60 South Cluff Ave in Lodi. The facility includes a pallet manufacturing/re-manufacturing operation and a recycling operation. Staff met with the owner, Justin Lawrence. The facility accepts and recycles metals, pallets, appliances, paper, e-waste, bimetal and CRV materials. The facility has been in operation for 24 years and has had coverage under the Industrial General Permit (IGP) since 2001. On 4/22/2004, staff conducted a storm water inspection and determined that the facility had failed to sample storm water events, did not have a complete SWPPP and failed to have an on-site monitoring program. On 09/13/2004, a Notice of Violation (NOV) was issued to the facility. Multiple other NOVs and Notice of Noncompliance (NNCs) were issued to the facility for late annual reports. During the 2 July 2014 inspection, staff again determined that the facility did not have a Storm Water Pollution Prevention Plan (SWPPP). It was unclear if the facility had a written sampling plan. The facility recently had a fire that significantly damaged the asphalt surface in the back of the facility. The facility had two separate businesses and SIC codes within one main building. The pallet manufacturing and re-manufacturing operation was located in the back portion of the building and the recycling operation was located in the front part of the building (see attachment section for the full inspection report and photographs).
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS,

Enforcement Action:

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	01-08-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	03-30-2007
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for submitting incomplete annual report for 2005/2006.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-20-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-13-2018
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: Failure to collect and analyze storm water runoff
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-23-2009
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NONC 08/09 Late Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-29-2014
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-03-2017
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC for late 16-17 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-11-2005
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of storm water non-compliance for failure to submit storm water annual report for the 2004/05 reporting year.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-15-2014
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for failure to submit annual report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2013
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-16-2018
Enf Action Type:	Industrial Storm Water Enforcement

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Late 2017-2018 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-17-2006
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Notice of Storm water non-compliance issued for failure to submit 2005-2006 Annual Storm Water Report.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-19-2010
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	1st NNC For Late Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-24-2011
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-27-2019
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2018-2019 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-30-2021
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for Late 2020-2021 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	08-31-2012
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	NNC for late annual report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-02-2005
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Notice of violation for failure to submit complete storm water annual report for the 2004/05 reporting year
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	416659
Site Name:	TOKAY VALLEY RECYCLING INC
Site Address:	60 S CLUFF AVE
Site City:	LODI
Site Zip:	95240
Enf Action Date:	09-13-2004
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	NOV for failure to sample storm water events, failure to have complete SWPPP and monitoring program on-site and samples collect exceeded EPA bench mark values.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 09-16-2015
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Failure to submit 2014-2015 Annual Report by due date
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 10-04-2017
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 2nd NNC for late Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 416659
Site Name: TOKAY VALLEY RECYCLING INC
Site Address: 60 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-19-2019
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Late 2018-2019 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 416659
Facility Name: TOKAY VALLEY RECYCLING INC
Env Int Type Code: HMBP
Program ID: 10182779
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.132720
Longitude: -121.251810

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 60 S CLUFF AVE
Affiliation City: LODI
Affiliation State: CA

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	LAWRENCE, JUSTIN
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 339-4990,
Affiliation Type Desc:	Operator
Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 339-4990,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Justin Lawrence
Entity Title:	Not reported
Affiliation Address:	60 S CLUFF AVE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Owner/Operator
Entity Name:	Tokay Valley Recycling Inc
Entity Title:	Operator
Affiliation Address:	60 S Cluff Ave60 S Cluff Ave
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Parent Corporation
Entity Name:	TOKAY VALLEY RECYCLING INC
Entity Title:	Not reported

TOKAY VALLEY RECYCLING INC (Continued) **S110071979**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

29
NNE
1/8-1/4
0.176 mi.
931 ft.

GUARANTEE REPAIR SERVICE **CERS HAZ WASTE** **S121740810**
101 COMMERCE ST **CERS** **N/A**
LODI, CA 95240

Relative:
Lower

Actual:
59 ft.

CERS HAZ WASTE:

Name:	GUARANTEE REPAIR SERVICE
Address:	101 COMMERCE ST
City,State,Zip:	LODI, CA 95240
Site ID:	120927
CERS ID:	10182741
CERS Description:	Hazardous Waste Generator

CERS:

Name:	GUARANTEE REPAIR SERVICE
Address:	101 COMMERCE ST
City,State,Zip:	LODI, CA 95240
Site ID:	120927
CERS ID:	10182741
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes:	Returned to compliance on 01/05/2016. Outside, behind the shop are dark and wet oil stains and oily debris on the asphalt next to where the three transmissions and engine are being stored. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the dark and wet oil stains and oily debris, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. This hazardous waste has been on site longer than 180 days. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. Next to this drum is another 55 gallon drum that is not marked with any identifying information. During the inspection, Bonnie Berneiser confirmed that this unmarked drum also contains hazardous waste coolant. Not only was this drum unlabeled, it was also left open. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes:	Returned to compliance on 01/05/2016. Metal fines generated from the grinding wheel and the brake lathe machines have been left to accumulate indefinitely in the shop without first determining particle size or hazardous properties. Any person who generates a waste shall determine if the waste is a hazardous waste. Immediately stop allowing metal fines to accumulate indefinitely, make a hazardous waste determination for the metal fines, and manage it according to Title 22 hazardous waste regulations. Particles 100 microns or smaller must be handled as hazardous waste if the metal is determined to be a hazardous waste. Submit a statement and supporting documentation explaining how this waste was managed. Outside behind the shop is an old drum of ZEP that is partially full and an unlabeled old red drum

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

next to it that Bernie Berneiser confirmed is partially full of waste carburetor cleaner/solvent and water. These wastes have been left out there without determining its hazardous properties. Any person who [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 120927
Site Name: GUARANTEE REPAIR SERVICE
Violation Date: 12-26-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 12/26/2018. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 120927
Site Name: GUARANTEE REPAIR SERVICE
Violation Date: 12-07-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum marked as hazardous waste coolant. This drum has an accumulation start date of 10-8-13. Next to this drum is another 55 gallon drum that is not marked with any identifying information. During the inspection, Bonnie Berneiser confirmed that this unmarked drum also contains hazardous waste coolant. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all containers are marked with all the required information. Since it cannot be determined how long the second drum of hazardous waste coolant has been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD. The used oil tank was marked with [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 120927

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Site Name:	GUARANTEE REPAIR SERVICE
Violation Date:	12-07-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 01/05/2016. Inside the shop is a 55 gallon drum of drained and crushed used oil filters. This drum has an accumulation start date of 2-20-14. This drained used oil filters have been on site longer than one year. Facilities that generate up to one ton of used oil filters per year may store the filters up to one year. Facilities that generate one ton or more of used oil filters may store the filters for up to 180 days. Immediately recycle these filters under a bill of lading and submit a copy of the bill of lading to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-07-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1-7-16. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. This facility has the following waste streams: - used oil - metal fines - spent lead acid batteries - waste coolant - drained used oil filters
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-26-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 1/25/2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Eval Type:	Routine done by local agency
Eval Notes:	No violations at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by December 30, 2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Enforcement Action:

Site ID:	120927
Site Name:	GUARANTEE REPAIR SERVICE
Site Address:	101 COMMERCE ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	12-07-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	120927
Facility Name:	GUARANTEE REPAIR SERVICE
Env Int Type Code:	HWG
Program ID:	10182741
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.132870
Longitude:	-121.249730

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 246
Affiliation City:	VICTOR
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95253-0246
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Bonnie Berneiser
Entity Title:	Not reported
Affiliation Address:	101 COMMERCE ST
Affiliation City:	LODI
Affiliation State:	CA

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 481-3589,

Affiliation Type Desc: Operator
Entity Name: BONNIE L BERNEISER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 481-3589,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Document Preparer
Entity Name: Bonnie Berneiser
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: GUARANTEE REPAIR SERVICE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Griffin Family Trust
Entity Title: Not reported
Affiliation Address: 119 N. Crescent Ave.
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95242
Affiliation Phone: (209) 401-8553,

Affiliation Type Desc: Environmental Contact
Entity Name: Bonnie Berneiser
Entity Title: Not reported

GUARANTEE REPAIR SERVICE (Continued) **S121740810**

Affiliation Address:	P. O. Box 246
Affiliation City:	Victor
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95253
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Bonnie Berneiser
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

G30 **HEARTLAND STEEL PRODUCTS WEST LLC** **UST** **U004260085**
NW **213 S KELLY ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.181 mi.
955 ft. **Site 1 of 11 in cluster G**

Relative: **Lower**
Actual: **52 ft.**

UST SAN JOAQUIN:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0000696
Mail Address:	213 Kelly Street
Mail Address 2:	Not reported
Mail Care of:	Heartland Steel Products West, LLC LP
Mail City,St,Zip:	Lodi, CA 95240
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	0
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10180645
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1318573877
Longitude:	-121.2550449321
Tank Rec ID:	Not reported
Tank Number:	2
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	0

HEARTLAND STEEL PRODUCTS WEST LLC (Continued) **U004260085**

Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 3
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 4
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10180645
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1318573877
Longitude: -121.2550449321

Tank Rec ID: Not reported
Tank Number: 5
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 0

HEARTLAND STEEL PRODUCTS WEST LLC (Continued) **U004260085**

Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10180645
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1318573877
Longitude:	-121.2550449321

Tank Rec ID:	Not reported
Tank Number:	6
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	0
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10180645
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	38.1318573877
Longitude:	-121.2550449321

G31 **LODI METAL TECH,INC** **RCRA-LQG** **1000244929**
NW **213 SO. KELLY STREET** **ENVIROSTOR** **CAD981369994**
1/8-1/4 **LODI, CA 95240** **LUST**
0.181 mi. **CERS HAZ WASTE**
955 ft. **Site 2 of 11 in cluster G** **SWEEPS UST**
HIST UST
Relative: **CA FID UST**
Lower **ICIS**
US AIRS
Actual: **Cortese**
52 ft. **EMI**
HAZNET
HIST CORTESE
NPDES
WDS
CIWQS
CERS
HWTS

RCRA-LQG:

Date Form Received by Agency:	20220225
Handler Name:	HEARTLAND STEEL PRODUCTS WEST, LLC
Handler Address:	213 S KELLY ST
Handler City,State,Zip:	LODI, CA 95240
EPA ID:	CAD981369994

LODI METAL TECH,INC (Continued) **1000244929**

Contact Name:	WESLEY K HIEB
Contact Address:	S KELLY ST
Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-642-4464
Contact Fax:	Not reported
Contact Email:	WHIEB@HEARTLANDSTEEL.COM
Contact Title:	DIRECTOR OF OPERATIONS
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	WILLS STREET
Mailing City,State,Zip:	MARYSVILLE, MI 48040
Owner Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Owner Type:	Private
Operator Name:	HEARTLAND STEEL PRODUCTS WEST, LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

LODI METAL TECH,INC (Continued) **1000244929**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220225
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Legal Status:	Private
Date Became Current:	20220217
Date Ended Current:	Not reported
Owner/Operator Address:	2420 WILLS STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040
Owner/Operator Telephone:	209-642-4464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	WHIEB@HEARTLANDSTEEL.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	HEARTLAND STEEL PRODUCTS WEST, LLC
Legal Status:	Private
Date Became Current:	20220217
Date Ended Current:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Owner/Operator Address:	2420 WILL STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040
Owner/Operator Telephone:	209-642-4464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	WHIEB@HEARTLANDSTEEL.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRED L BAYBARZ
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: LODI METAL TECH INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19860124
Handler Name: LODI METAL TECH INC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Receive Date: 20220225
Handler Name: HEARTLAND STEEL PRODUCTS WEST, LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 337127
NAICS Description: INSTITUTIONAL FURNITURE MANUFACTURING

NAICS Code: 337215
NAICS Description: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19920427
Actual Return to Compliance Date: 19941228
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19860605
Actual Return to Compliance Date:	19860605
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19860605
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19900119
Actual Return to Compliance Date:	19920427
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19941228
Actual Return to Compliance Date:	19991228
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19920427
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19941228
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19860605
Evaluation Responsible Agency: State

LODI METAL TECH,INC (Continued) **1000244929**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19860605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19900119
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920427
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19941228
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19991228
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19860605
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ENVIROSTOR:

Name:	LODI METAL TECH
Address:	213 SOUTH KELLY STREET
City,State,Zip:	LODI, CA 95240
Facility ID:	39340005
Status:	Refer: Other Agency

LODI METAL TECH,INC (Continued) **1000244929**

Status Date: 11/16/1994
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13197
Longitude: -121.2555
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Sludge - Paint
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110000770942
Alias Type: EPA (FRS #)
Alias Name: T0607700150
Alias Type: GeoTracker Global ID
Alias Name: 39340005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/07/1982
Comments: FACILITY IDENTIFIED FROM INDUSTRIAL INDEX.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: LODI METAL TECH
Address: 213 KELLY ST S
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700150
Global Id: T0607700150
Latitude: 38.1313965

LODI METAL TECH,INC (Continued) **1000244929**

Longitude: -121.2549802
Status: Completed - Case Closed
Status Date: 11/08/1990
Case Worker: Not reported
RB Case Number: 390216
Local Agency: Not reported
File Location: Not reported
Local Case Number: 21315
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0607700150
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700150
Action Type: Other
Date: 05/05/1988
Action: Leak Reported

Global Id: T0607700150
Action Type: RESPONSE
Date: 12/22/1988
Action: Preliminary Site Assessment Workplan

Global Id: T0607700150
Action Type: ENFORCEMENT
Date: 11/13/1990
Action: Staff Letter - #11/13/1990

Global Id: T0607700150
Action Type: ENFORCEMENT
Date: 05/05/1988
Action: Unauthorized Release Form - #5/5/1988

Global Id: T0607700150
Action Type: Other
Date: 02/27/1987
Action: Leak Discovery

LUST:
Global Id: T0607700150
Status: Open - Case Begin Date
Status Date: 02/27/1987

Global Id: T0607700150
Status: Completed - Case Closed
Status Date: 11/08/1990

LODI METAL TECH,INC (Continued) **1000244929**

LUST REG 5:
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
Region: 5
Status: Case Closed
Case Number: 390216
Case Type: Soil only
Substance: HYDROCARBONS
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CERS HAZ WASTE:
Name: HEARTLAND STEEL PRODUCTS WEST LLC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Site ID: 35905
CERS ID: 10180645
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 6

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000002
Tank Status: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000004
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000005
Tank Status: Not reported
Capacity: 100
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: PAINT THINNE
Number Of Tanks: Not reported

Name: LODI METAL TECH
Address: 213 S KELLEY ST
City: LODI
Status: Not reported
Comp Number: 2131
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002131-000006
Tank Status: Not reported
Capacity: 600
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95241
File Number: 0002FEB0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FEB0.pdf
Region: STATE
Facility ID: 00000000716
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: ROBERT LIND
Telephone: 2093342500
Owner Name: LODI METAL TECH., INC.
Owner Address: 213 S. KELLY ST.
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0006

Tank Num: 001
Container Num: 6
Year Installed: 1982
Tank Capacity: 00000600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

Tank Num: 002

LODI METAL TECH,INC (Continued) **1000244929**

Container Num:	5
Year Installed:	1972
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	003
Container Num:	4
Year Installed:	1974
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	004
Container Num:	3
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	005
Container Num:	2
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	006
Container Num:	1
Year Installed:	1972
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39003652
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093342500
Mail To:	Not reported
Mailing Address:	213 S KELLEY ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95241

LODI METAL TECH,INC (Continued) **1000244929**

Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

ICIS:
Enforcement Action ID: CASJVA000006077N100200114
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200114
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Administrative Order
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200112
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200112
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200095
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200095
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Administrative Order
Facility County: SAN JOAQUIN

LODI METAL TECH,INC (Continued) **1000244929**

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200093
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200093
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200091
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200091
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET
LODI, CA 95240
Enforcement Action Type: Notice of Violation
Facility County: SAN JOAQUIN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2542
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 38.13186
Longitude in Decimal Degrees: -121.25501
Permit Type Desc: Not reported
Program System Acronym: CASJV00006077N1002
Facility NAICS Code: 337127
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006077N100200048
FRS ID: 110000770942
Action Name: LODI METAL TECH,INC 06077N100200048
Facility Name: LODI METAL TECH,INC
Facility Address: 213 SO. KELLY STREET

LODI METAL TECH,INC (Continued) **1000244929**

	LODI, CA 95240
Enforcement Action Type:	Administrative Order
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	CASJVA000006077N100200046
FRS ID:	110000770942
Action Name:	LODI METAL TECH,INC 06077N100200046
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET
	LODI, CA 95240
Enforcement Action Type:	Notice of Violation
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	09-1989-A004
FRS ID:	110000770942
Action Name:	LODI METAL TECH,INC 06077N100200025
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET
	LODI, CA 95240
Enforcement Action Type:	CAA 113A Admin Compliance Order (Non-Penalty)
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	113A
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported
Enforcement Action ID:	09-1987-A009
FRS ID:	110000770942

LODI METAL TECH,INC (Continued) **1000244929**

Action Name:	LODI METAL TECH,INC 06077N100200017
Facility Name:	LODI METAL TECH,INC
Facility Address:	213 SO. KELLY STREET LODI, CA 95240
Enforcement Action Type:	CAA 113A Admin Compliance Order (Non-Penalty)
Facility County:	SAN JOAQUIN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	113A
Facility SIC Code:	2542
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.13186
Longitude in Decimal Degrees:	-121.25501
Permit Type Desc:	Not reported
Program System Acronym:	CASJV00006077N1002
Facility NAICS Code:	337127
Tribal Land Code:	Not reported

US AIRS (AFS):

Envid:	1000244929
Region Code:	09
County Code:	CA077
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
D and B Number:	Not reported
Facility Site Name:	LODI METAL TECH,INC
Primary SIC Code:	2542
NAICS Code:	337127
Default Air Classification Code:	MAJ
Facility Type of Ownership Code:	POF
Air CMS Category Code:	TVM
HPV Status:	Not reported

US AIRS (AFS):

Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2005-08-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Compliance Investigation
Activity Status:	Not reported

Region Code:	09
Programmatic ID:	AIR CASJV00006077N1002
Facility Registry ID:	110000770942
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-10-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Compliance Investigation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-09-12 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-11-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-02-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-05-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-06-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-10-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-05-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-07-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-11-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-06-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-12-28 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-05-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-05-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-10 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-12-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-08-20 00:00:00
Activity Status Date: 1987-08-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-02-07 00:00:00
Activity Status Date: 1989-02-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-02-06 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2008-02-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2008-06-05 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-10-16 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-05-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-06-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-03 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-01-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-05-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-04 00:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-12-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR

LODI METAL TECH,INC (Continued) **1000244929**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-04-03 00:00:00
Activity Status Date: 2002-04-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-12-17 00:00:00
Activity Status Date: 2007-12-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

LODI METAL TECH,INC (Continued) **1000244929**

Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-05-12 00:00:00
Activity Status Date: 2008-05-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-06-01 00:00:00
Activity Status Date: 2000-06-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-01 00:00:00
Activity Status Date: 2007-08-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASJV00006077N1002
Facility Registry ID: 110000770942
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-28 00:00:00
Activity Status Date: 2008-02-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

CORTESE:
Name: LODI METAL TECH
Address: 213 KELLY ST S
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700150
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED

LODI METAL TECH,INC (Continued) **1000244929**

Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	LODI METAL TECH,INC
Address:	213 KELLY ST
City,State,Zip:	LODI, CA 95241
Year:	1990
County Code:	39
Air Basin:	SJV
Facility ID:	194
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH,INC
Address:	213 KELLY ST
City,State,Zip:	LODI, CA 95241
Year:	1995
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	2542
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LODI METAL TECH,INC (Continued) **1000244929**

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	1999
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20
Reactive Organic Gases Tons/Yr:	20
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	2000
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	23
Reactive Organic Gases Tons/Yr:	23
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	LODI METAL TECH INC
Address:	213 S KELLEY ST
City,State,Zip:	LODI, CA 95241
Year:	2004
County Code:	39
Air Basin:	SJV
Facility ID:	1002
Air District Name:	SJU
SIC Code:	3479
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10.95638664
Reactive Organic Gases Tons/Yr:	10.3642182
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0.749910021
SOX - Oxides of Sulphur Tons/Yr:	0.0032139

LODI METAL TECH,INC (Continued) **1000244929**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLEY ST
City,State,Zip: LODI, CA 95241
Year: 2005
County Code: 39
Air Basin: SJV
Facility ID: 1002
Air District Name: SJU
SIC Code: 3479
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8.730853967068973650
Reactive Organic Gases Tons/Yr: 8.2506109996795654
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: .716799983978271
SOX - Oxides of Sulphur Tons/Yr: .00307199993133545
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2008
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2009
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0

LODI METAL TECH,INC (Continued) **1000244929**

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2010
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2011
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: LODI METAL TECH INC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Year: 2012
County Code: 39
Air Basin: SJV
Facility ID: 20777
Air District Name: SJU
SIC Code: 2542
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 952410000
Contact:	S MOFFET FACILITY MAINT. MGR.
Telephone:	2093342500
Mailing Name:	Not reported
Mailing Address:	PO BOX 967
Year:	2007
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	16.95
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.55
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	ARD981057870
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	-
Tons:	0.187
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	CAD097030993
CA Waste Code:	291 - Latex waste
Disposal Method:	-
Tons:	0.9174
Year:	2006
Gepaid:	CAD981369994
TSD EPA ID:	ARD981057870
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	-
Tons:	1.75
Year:	2006

LODI METAL TECH,INC (Continued) **1000244929**

Gepaid: CAD981369994
TSD EPA ID: CAT080033681
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 2.5

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 4.5

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 1.75

Year: 2006
Gepaid: CAD981369994
TSD EPA ID: ARD981057870
CA Waste Code: 291 - Latex waste
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.4587

Year: 2005
Gepaid: CAD981369994
TSD EPA ID: CAT080033681
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 7.8

Click this hyperlink while viewing on your computer to access
54 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2000
Gen EPA ID: CAD981369994

Shipment Date: 20001214
Creation Date: 3/6/2001 0:00:00
Receipt Date: 20001215
Manifest ID: 99766568
Trans EPA ID: CAD009661844
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: Not reported
TSDF Alt EPA ID: CAT080033681
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001214
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001215
Manifest ID:	99766568
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001214
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001215
Manifest ID:	99766568
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.1
Waste Quantity:	4200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000929
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	99766429
Trans EPA ID:	CAD009661844
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000711
Creation Date:	9/25/2000 0:00:00
Receipt Date:	20000720
Manifest ID:	98290399
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.1
Waste Quantity:	4200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000225
Creation Date:	5/17/2000 0:00:00
Receipt Date:	20000310
Manifest ID:	98290359
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000225
Creation Date:	5/17/2000 0:00:00
Receipt Date:	20000310
Manifest ID:	98290359
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD981369994
Shipment Date:	20021028
Creation Date:	2/25/2003 18:31:38
Receipt Date:	20021101
Manifest ID:	22136249
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20020717
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020722
Manifest ID:	21923708
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020715
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020723
Manifest ID:	21923967
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020711
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020715
Manifest ID:	21923709
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020711
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	21923708
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020307
Creation Date:	7/22/2002 18:32:38
Receipt Date:	20020311
Manifest ID:	21714068
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020307
Creation Date:	7/22/2002 18:32:38
Receipt Date:	20020311

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	21714068
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020307
Creation Date:	7/17/2002 18:34:07
Receipt Date:	20020315
Manifest ID:	21714067
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD981369994

Shipment Date:	20030918
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20030924
Manifest ID:	22917522
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030918
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20030924
Manifest ID:	22917522
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030508
Creation Date:	6/23/2004 10:00:42
Receipt Date:	20030512
Manifest ID:	22496339
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030218
Creation Date:	3/16/2007 18:30:50
Receipt Date:	20030226
Manifest ID:	22564704
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981369994
Shipment Date:	19931008
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931015
Manifest ID:	93110556
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000633164
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 5:	Not reported
Shipment Date:	19930614
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930615
Manifest ID:	93110470
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000633164
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD000633164
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6
Waste Quantity:	3200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981369994
Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201
Manifest ID:	93071501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	93071501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1876
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950728
Creation Date:	4/3/1996 0:00:00
Receipt Date:	19950804
Manifest ID:	95607731
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	CAD102827599
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.05
Waste Quantity:	2100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950327
Creation Date:	10/23/1995 0:00:00
Receipt Date:	19950331
Manifest ID:	95607604
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981369994
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.2
Waste Quantity:	6400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.8
Waste Quantity:	7600

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961105
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96052502
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961104
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961105
Manifest ID:	96052501
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	17.49
Waste Quantity:	5300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961023
Creation Date:	5/20/1997 0:00:00

LODI METAL TECH,INC (Continued) **1000244929**

Receipt Date:	19961023
Manifest ID:	96331799
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960715
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960724
Manifest ID:	96052418
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.225
Waste Quantity:	2450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960405
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960408
Manifest ID:	95607944
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD981369994
Shipment Date:	20070920
Creation Date:	12/28/2007 18:31:07
Receipt Date:	20070928
Manifest ID:	003031036JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	7.2
Waste Quantity:	14400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070920
Creation Date:	12/28/2007 18:31:07
Receipt Date:	20070928
Manifest ID:	003031036JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LODI METAL TECH,INC (Continued) **1000244929**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.5
Waste Quantity:	9000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070604
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070613
Manifest ID:	001402383JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070604
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070613
Manifest ID:	001402383JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070220
Creation Date:	9/24/2007 11:12:35
Receipt Date:	20070226
Manifest ID:	001965540JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070220
Creation Date:	9/24/2007 11:12:35
Receipt Date:	20070226
Manifest ID:	001965540JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.25
Waste Quantity:	4500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981369994

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991110
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991115
Manifest ID:	98290304
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991007
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19991008
Manifest ID:	98290287
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991005
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19991007
Manifest ID:	98290273
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	Not reported
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	20.016
Waste Quantity:	4800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990727
Creation Date:	9/21/1999 0:00:00
Receipt Date:	19990728
Manifest ID:	98290268
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	15.96
Waste Quantity:	4200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD981369994

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20010925
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20010927
Manifest ID:	21232603
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010705
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010710
Manifest ID:	21042859
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010705
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010710
Manifest ID:	21042859
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010529
Creation Date:	8/29/2001 0:00:00
Receipt Date:	20010604
Manifest ID:	21070124
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010425
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010430
Manifest ID:	21122943
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.9
Waste Quantity:	1800
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010322
Manifest ID:	20899245
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.25
Waste Quantity:	2500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/20/2001 0:00:00
Receipt Date:	20010327
Manifest ID:	20899244
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.079
Waste Quantity:	495
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010314
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010322

LODI METAL TECH,INC (Continued) **1000244929**

Manifest ID:	20899245
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD981369994
Shipment Date:	20061120
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061129
Manifest ID:	001404900JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061120
Creation Date:	3/30/2007 13:32:55
Receipt Date:	20061129
Manifest ID:	001404900JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060907
Creation Date:	7/13/2007 18:30:17
Receipt Date:	20060917
Manifest ID:	001408664JJK
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS (ID #778)
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060817
Creation Date:	9/27/2006 18:32:10
Receipt Date:	Not reported
Manifest ID:	24920584
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060817
Creation Date:	9/27/2006 18:32:10
Receipt Date:	Not reported
Manifest ID:	24920584
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060817
Creation Date:	2/22/2007 18:30:13
Receipt Date:	20060903
Manifest ID:	24920581
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS ID #778
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20060817
Creation Date:	2/22/2007 18:30:13
Receipt Date:	20060903
Manifest ID:	24920581
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380
Trans 2 Name:	MAUMEE EXPRESS ID #778
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	- Not reported
Quantity Tons:	1.75
Waste Quantity:	3500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060706
Creation Date:	9/8/2006 18:33:30
Receipt Date:	20060711
Manifest ID:	25178766
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.5
Waste Quantity:	7000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060706
Creation Date:	9/8/2006 18:33:30
Receipt Date:	20060711
Manifest ID:	25178766
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name: US FILTER RECOVERY SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 1
Waste Quantity: 2000
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20060206
Creation Date: 7/5/2006 12:04:15
Receipt Date: 20060215
Manifest ID: 25110686
Trans EPA ID: CA0000970392
Trans Name: ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: DK ENVIRONMENTAL
TSDF Alt EPA ID: CAT080033681
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 1.05
Waste Quantity: 2100
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1994
Gen EPA ID: CAD981369994

Shipment Date: 19940818
Creation Date: 3/26/1996 0:00:00
Receipt Date: 19940826
Manifest ID: 93071350
Trans EPA ID: CAD102827599
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: AZC000000150
Trans Name: Not reported
TSDF Alt EPA ID: AZC000000150
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Meth Code:	- Not reported
Quantity Tons:	1.8
Waste Quantity:	3600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940119
Creation Date:	9/14/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93110552
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.4
Waste Quantity:	2800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940119
Creation Date:	9/14/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93110552
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080011059
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Info:

Year:	2004
Gen EPA ID:	CAD981369994
Shipment Date:	20041119
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041210
Manifest ID:	24069824
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041119
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041210
Manifest ID:	24069824
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040812
Creation Date:	12/28/2004 14:46:39
Receipt Date:	20040816
Manifest ID:	23828035
Trans EPA ID:	CA0000970392

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040518
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040528
Manifest ID:	23398381
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	4
Waste Quantity:	8000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040518
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040528
Manifest ID:	23398381
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040426
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040510
Manifest ID:	23396219
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040426
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040510
Manifest ID:	23396219
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Additional Info:

Year:	1998
Gen EPA ID:	CAD981369994
Shipment Date:	19980306
Creation Date:	5/8/1998 0:00:00
Receipt Date:	19980312
Manifest ID:	96052436
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD000088252
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981369994
Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051014
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051025
Manifest ID:	24801951
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050623
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050705
Manifest ID:	24513424
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050623
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050705
Manifest ID:	24513424
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050307
Creation Date:	6/2/2005 18:31:52
Receipt Date:	20050314
Manifest ID:	24401799
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P

LODI METAL TECH,INC (Continued) **1000244929**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050307
Creation Date:	6/2/2005 18:31:52
Receipt Date:	20050314
Manifest ID:	24401799
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	DK ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	2
Waste Quantity:	4000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD981369994
Shipment Date:	19971210
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19971216
Manifest ID:	96052744
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Shipment Date:	19971013
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19971023
Manifest ID:	96052705
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970506
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970512
Manifest ID:	96052595
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970221
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970227
Manifest ID:	96052543
Trans EPA ID:	CAD102827599
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252

LODI METAL TECH,INC (Continued) **1000244929**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HIST CORTESE:

edr_fname:	LODI METAL TECH
edr_fadd1:	213 KELLY
City,State,Zip:	LODI, CA 95241
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390216

NPDES:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39I023055
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/09/2011
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040

NPDES as of 03/2018:

NPDES Number:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	412961
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/09/2011
Processed Date:	03/09/2011
Status:	Active
Status Date:	03/09/2011
Place Size:	12
Place Size Unit:	Acres
Contact:	Darryl Stronghead
Contact Title:	Production Manager
Contact Phone:	209-367-4444
Contact Phone Ext:	Not reported
Contact Email:	dstrongheart@spacerak.net
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040
Operator Contact:	Lucas Sutterer
Operator Contact Title:	President of operations
Operator Contact Phone:	615-887-0513
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lsutterer@heartlandsteel.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Michigan
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-367-4444
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Lucas Sutterer
Certifier Title:	Operations
Certification Date:	16-MAR-17
Primary Sic:	2542-Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
Secondary Sic:	3441-Fabricated Structural Metal
Tertiary Sic:	3448-Prefabricated Metal Buildings and Components
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	412961
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Heartland Steel Products West LLC
Discharge Address:	2420 Wills St
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	412961
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39I023055
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2420 Wills St

LODI METAL TECH,INC (Continued) **1000244929**

Discharge Name:	Heartland Steel Products West LLC
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	5S
Regulatory Measure ID:	412961
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/09/2011
Processed Date:	03/09/2011
Status:	Active
Status Date:	03/09/2011
Place Size:	12
Place Size Unit:	Acres
Contact:	Darryl Stronghead
Contact Title:	Production Manager
Contact Phone:	209-367-4444
Contact Phone Ext:	Not reported
Contact Email:	dstrongheart@spacerak.net
Operator Name:	Heartland Steel Products West LLC
Operator Address:	2420 Wills St
Operator City:	Marysville
Operator State:	Michigan
Operator Zip:	48040
Operator Contact:	Lucas Sutterer
Operator Contact Title:	President of operations
Operator Contact Phone:	615-887-0513
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lsutterer@heartlandsteel.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Michigan

LODI METAL TECH,INC (Continued) **1000244929**

Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	209-367-4444
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Mokelumne River
Certifier:	Lucas Sutterer
Certifier Title:	Operations
Certification Date:	16-MAR-17
Primary Sic:	2542-Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
Secondary Sic:	3441-Fabricated Structural Metal
Tertiary Sic:	3448-Prefabricated Metal Buildings and Components
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	5S
Regulatory Measure ID:	412961
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	5S39I023055
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Heartland Steel Products West LLC
Discharge Address:	2420 Wills St
Discharge City:	Marysville
Discharge State:	Michigan
Discharge Zip:	48040
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Name:	EXXON SANTA YNEZ FLORES CANYON
Address:	213 Kelly St
City:	LODI
Facility ID:	5S 39I000260

LODI METAL TECH,INC (Continued) **1000244929**

Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	2093342500
Facility Contact:	FRED CAIN
Agency Name:	LODI METAL TECH INC
Agency Address:	PO Box 967
Agency City,St,Zip:	Lodi 952410967
Agency Contact:	MD KELLY
Agency Telephone:	2093342500
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	LODI METAL TECH INC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Agency:	Lodi Metal Tech
Agency Address:	PO Box 967, Lodi, CA 95241
Place/Project Type:	Industrial - Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
SIC/NAICS:	2542(+)
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Terminated

LODI METAL TECH,INC (Continued) **1000244929**

Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I000260
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/06/1992
Termination Date:	09/17/2009
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	38.13184
Longitude:	-121.25503

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Agency:	Heartland Steel Products West LLC
Agency Address:	2420 Wills St, Marysville, MI 48040
Place/Project Type:	Industrial - Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
SIC/NAICS:	2542(+)
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I023055
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/09/2011
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	3
Violations within 5 years:	2
Latitude:	38.13185
Longitude:	-121.25557

CERS:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
City,State,Zip:	LODI, CA 95240
Site ID:	35905
CERS ID:	10180645
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	07-05-2011

LODI METAL TECH,INC (Continued) **1000244929**

Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	Failure to maintain stormwater BMPs. Exceedance of EPA benchmarks.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The training plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	OBSERVATION: A site map was not completed and submitted as part of the business plan in 2020 and is incomplete. The site map is missing the following required elements: -internal roads -storm/sewer drains -hazardous material storage areas (with chemical name) -emergency equipment: fire extinguishers, eye wash stations, spill kits -emergency shut-offs -all access/exit points REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

LODI METAL TECH,INC (Continued) **1000244929**

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3 - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The Business Activities and Owner/Operator Identification element was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	09-12-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/12/2019. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - 2 approximately 1000 pound totes containing latex paint chips - 7 black 55 gallon drums containing hazardous waste solids debris, petroleum hydrocarbons - 6 black 55 gallon drums containing hazardous waste liquids sludge, petroleum hydrocarbons The hazardous waste labels on all containers were each lacking hazardous properties. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the

LODI METAL TECH,INC (Continued) **1000244929**

	business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan was not reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was not submitted in 2020 and submitted late in 2021 on July 21, 2021. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year CORRECTIVE ACTION: Submit a statement to SJC EHD stating that the business will annually certify/submit the annual HMBP to CERS by January 15.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan training records were not found on site. REGULATION GUIDANCE: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appr
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	07-15-2020
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Late 2019-2020 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter

LODI METAL TECH,INC (Continued) **1000244929**

6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The hazardous materials inventory was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The emergency response plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 01-01-2021
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late 2020-2021 Level 1 ERA Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2013
Violations Found: No
Eval Type: Routine done by local agency

LODI METAL TECH,INC (Continued) **1000244929**

Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted at time of inspection.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Violations were not observed at the time of the inspection. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report and list of Free CUPA Classes. Note: See PR0517911 for full hazardous waste tonnage.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-10-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 7 violation(s) during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 09, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-12-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 12, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To

LODI METAL TECH,INC (Continued) **1000244929**

schedule an appointment, please call (209) 468-3420. Documents provided during inspection: - Hazardous Waste Labeling Information - Employee Training Record Form - Forklift Maintenance Form Waste streams found: - Used Oil - Hazardous Waste Solids: Debris Petroleum Hydrocarbons - Hazardous Waste Solids: Latex Paint Chips - Hazardous Waste Liquids: Sludge Petroleum Hydrocarbons - Universal Waste Lamps - Universal Waste Aerosols

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-12-2021
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for Late 2020-2021 Level 1 ERA Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-23-2012
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 13267 letter for benchmark exceedances.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-17-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-09-2020

LODI METAL TECH,INC (Continued) **1000244929**

Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for Late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 35905
Facility Name: HEARTLAND STEEL PRODUCTS WEST LLC
Env Int Type Code: HWG
Program ID: 10180645
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.131850
Longitude: -121.255570

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Danny Aspiras
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 213 S. Kelly Street
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Wes Hieb
Entity Title: Director of Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Danny Aspiras
Entity Title: Not reported
Affiliation Address: 11870 N. Hwy 99
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240

LODI METAL TECH,INC (Continued) **1000244929**

Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Heartland Steel Products West, LLC
Entity Title: Not reported
Affiliation Address: 2420 Wills Street
Affiliation City: Marysville
Affiliation State: MI
Affiliation Country: United States
Affiliation Zip: 48040
Affiliation Phone: (209) 367-4444,

Affiliation Type Desc: Operator
Entity Name: Heartland Steel Products West, LLC LP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 367-4444,

Affiliation Type Desc: Parent Corporation
Entity Name: HEARTLAND STEEL PRODUCTS WEST LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Owner/Operator
Entity Name: Heartland Steel Products West LLC
Entity Title: Operator
Affiliation Address: 2420 Wills St
Affiliation City: Marysville
Affiliation State: MI
Affiliation Country: Not reported
Affiliation Zip: 48040
Affiliation Phone: ,

Name: LODI METAL TECH
Address: 213 KELLY ST S
City,State,Zip: LODI, CA 95240
Site ID: 198441

LODI METAL TECH,INC (Continued) **1000244929**

CERS ID: T0607700150
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: HEARTLAND STEEL PRODUCTS WEST LLC
Address: 213 S KELLY ST
City,State,Zip: LODI, CA 95240
Site ID: 35905
CERS ID: 808537
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 07-05-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: Failure to maintain stormwater BMPs. Exceedance of EPA benchmarks.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The training plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905

LODI METAL TECH,INC (Continued) **1000244929**

Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	OBSERVATION: A site map was not completed and submitted as part of the business plan in 2020 and is incomplete. The site map is missing the following required elements: -internal roads -storm/sewer drains -hazardous material storage areas (with chemical name) -emergency equipment: fire extinguishers, eye wash stations, spill kits -emergency shut-offs -all access/exit points REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508(a)(3 - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 08/10/2021. OBSERVATION: The Business Activities and Owner/Operator Identification element was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	09-12-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

LODI METAL TECH,INC (Continued) **1000244929**

Violation Notes:	Returned to compliance on 09/12/2019. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - 2 approximately 1000 pound totes containing latex paint chips - 7 black 55 gallon drums containing hazardous waste solids debris, petroleum hydrocarbons - 6 black 55 gallon drums containing hazardous waste liquids sludge, petroleum hydrocarbons The hazardous waste labels on all containers were each lacking hazardous properties. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan was not reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. The business plan was not submitted in 2020 and submitted late in 2021 on July 21, 2021. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year CORRECTIVE ACTION: Submit a statement to SJC EHD stating that the business will annually certify/submit the annual HMBP to CERS by January 15.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	35905
Site Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date:	08-10-2021
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/03/2021. OBSERVATION: The business plan training records were not found on site. REGULATION GUIDANCE: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response

LODI METAL TECH,INC (Continued) **1000244929**

personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. CORRECTIVE ACTION: Immediately provide employee training for appr

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 07-15-2020
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late 2019-2020 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The hazardous materials inventory was not annually certified/submitted as a part of the business plan for 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 08-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 08/10/2021. OBSERVATION: The emergency response plan was not annually certified/submitted as a part of the business plan in 2020. REGULATION GUIDANCE: Per H&SC 25508.2, the business owner/operator shall annually review and certify that the business plan is complete, accurate, up-to-date and in compliance with

LODI METAL TECH,INC (Continued) **1000244929**

Section 11022 of Title 42 of the United States Code. An annual electronic submittal satisfies these requirements. The annual business plan shall be submitted/certified by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: This violation was corrected with the 07/21/2021 CERS submittal.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Violation Date: 01-01-2021
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Late 2020-2021 Level 1 ERA Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-10-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Violations were not observed at the time of the inspection. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: inspection report and list of Free CUPA Classes. Note: See PR0517911 for full hazardous waste tonnage.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-10-2021

LODI METAL TECH,INC (Continued) **1000244929**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were 7 violation(s) during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 09, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-12-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 12, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: - Hazardous Waste Labeling Information - Employee Training Record Form - Forklift Maintenance Form Waste streams found: - Used Oil - Hazardous Waste Solids: Debris Petroleum Hydrocarbons - Hazardous Waste Solids: Latex Paint Chips - Hazardous Waste Liquids: Sludge Petroleum Hydrocarbons - Universal Waste Lamps - Universal Waste Aerosols
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-12-2021
Enf Action Type: Notice of Violation
Enf Action Description: Notice of Violation
Enf Action Notes: NOV for Late 2020-2021 Level 1 ERA Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-23-2012
Enf Action Type: Industrial Storm Water Enforcement

LODI METAL TECH,INC (Continued) **1000244929**

Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 13267 letter for benchmark exceedances.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-17-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 35905
Site Name: HEARTLAND STEEL PRODUCTS WEST LLC
Site Address: 213 S KELLY ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 11-09-2020
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for Late 2019-2020 Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Coordinates:
Site ID: 35905
Facility Name: HEARTLAND STEEL PRODUCTS WEST LLC
Env Int Type Code: HWG
Program ID: 10180645
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.131850
Longitude: -121.255570

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Danny Aspiras
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

LODI METAL TECH,INC (Continued) **1000244929**

Affiliation Address:	213 S. Kelly Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Wes Hieb
Entity Title:	Director of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Danny Aspiras
Entity Title:	Not reported
Affiliation Address:	11870 N. Hwy 99
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Heartland Steel Products West, LLC
Entity Title:	Not reported
Affiliation Address:	2420 Wills Street
Affiliation City:	Marysville
Affiliation State:	MI
Affiliation Country:	United States
Affiliation Zip:	48040
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Operator
Entity Name:	Heartland Steel Products West, LLC LP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 367-4444,
Affiliation Type Desc:	Parent Corporation
Entity Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

LODI METAL TECH,INC (Continued) **1000244929**

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,

Affiliation Type Desc:	Owner/Operator
Entity Name:	Heartland Steel Products West LLC
Entity Title:	Operator
Affiliation Address:	2420 Wills St
Affiliation City:	Marysville
Affiliation State:	MI
Affiliation Country:	Not reported
Affiliation Zip:	48040
Affiliation Phone:	,

HWTS:

Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Address:	213 S KELLY ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95241
EPA ID:	CAD981369994
Inactive Date:	Not reported
Create Date:	11/14/1986
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	2420 WILLS ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MARYSVILLE, MI 48040
Owner Name:	HEARTLAND STEEL PRODUCTS WEST LLC
Owner Address:	2420 WILLS ST
Owner Address 2:	Not reported
Owner City,State,Zip:	MARYSVILLE, MI 48040
Contact Name:	WESLEY K HIEB
Contact Address:	213 S KELLY ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952403107
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	38.131811
Longitude:	-121.254979

NAICS:

EPA ID:	CAD981369994
Create Date:	2007-03-27 16:17:47.000
NAICS Code:	337127
NAICS Description:	Institutional Furniture Manufacturing
Issued EPA ID Date:	1986-11-14 00:00:00
Inactive Date:	2006-06-30 00:00:00
Facility Name:	LODI METAL TECH INC
Facility Address:	213 S KELLY ST

LODI METAL TECH,INC (Continued) **1000244929**

Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952410000
EPA ID:	CAD981369994
Create Date:	2007-03-27 16:17:47.000
NAICS Code:	337127
NAICS Description:	Institutional Furniture Manufacturing
Issued EPA ID Date:	1986-11-14 00:00:00
Inactive Date:	2006-06-30 00:00:00
Facility Name:	LODI METAL TECH INC
Facility Address:	213 S KELLY ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952410000

G32 **LODI METAL TECH** **RGA LUST** **S114644799**
NW **213 SOUTH KELLY STREET** **N/A**
1/8-1/4 **LODI, CA**
0.181 mi.
955 ft. **Site 3 of 11 in cluster G**

Relative: RGA LUST:
Lower
Name: LODI METAL TECH
Actual: Address: 213 SOUTH KELLY STREET
52 ft. City: LODI
State: LODI

1992 LODI METAL TECH 213 SOUTH KELLY STREET

H33 **SHANDS TRUCK REPAIR** **EDR Hist Auto** **1020850266**
WNW **885 E LODI AVE STE A** **N/A**
1/8-1/4 **LODI, CA 95240**
0.181 mi.
956 ft. **Site 1 of 8 in cluster H**

Relative: EDR Hist Auto
Lower

Actual: **52 ft.**

Year:	Name:	Type:
1996	SHANDS TRUCK REPAIR	General Automotive Repair Shops
1997	SHANDS TRUCK REPAIR	General Automotive Repair Shops
1998	SHANDS TRUCK REPAIR	General Automotive Repair Shops
1998	SHANDS TRUCK REPAIR	General Automotive Repair Shops
1999	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2000	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2001	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2002	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2003	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2004	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2005	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2006	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2007	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC

SHANDS TRUCK REPAIR (Continued) **1020850266**

2008	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2009	CAPITOL TRUCK PARTS	Automotive Transmission Repair Shops
2009	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2010	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2011	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2012	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2013	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC
2014	SHANDS TRUCK REPAIR	General Automotive Repair Shops, NEC

H34 **SHANDS DIESEL TRUCK REPAIR** **CERS HAZ WASTE** **S121746794**
WNW **885 E LODI AVE A** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.181 mi.
956 ft. **Site 2 of 8 in cluster H**

Relative: **Lower**

Actual: **52 ft.**

CERS HAZ WASTE:

Name:	SHANDS DIESEL TRUCK REPAIR
Address:	885 E LODI AVE A
City,State,Zip:	LODI, CA 95240
Site ID:	152857
CERS ID:	10184459
CERS Description:	Hazardous Waste Generator

CERS:

Name:	SHANDS DIESEL TRUCK REPAIR
Address:	885 E LODI AVE A
City,State,Zip:	LODI, CA 95240
Site ID:	152857
CERS ID:	10184459
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes:	Returned to compliance on 10/14/2015. Metal and paint fines generated from sanding painted metal vehicle parts are being added to the contaminated floor sweep and stored in the outdoor shed without first determining particle size or hazardous properties. There are three open containers of contaminated floor sweep in the outdoor shed which Jefferson Stilwell (foreman) confirmed that he is not sure how to manage and has not yet made a CA Title 22 hazardous waste determination. Any person who generates a waste shall determine if the waste is a hazardous waste. During the inspection, Jefferson Stilwell confirmed that he will manage the metal fines, paint fines, and contaminated absorbent as a hazardous waste. Correct immediately by closing and labeling these containers of hazardous waste metal fines, paint fines, and contaminated absorbent. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	152857

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	07-23-2013
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/23/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 12/14/2015. The 2013 bills of lading for the recycling of used oil filters were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading for used oil filters for the last three years, maintain them on site, and submit copies to the EHD. One fifty-five gallon drum of drained used oil filters was so full of filters that it could not be closed. Another fifty-five gallon drum of drained used oil filters did not have any of the required label information. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately correct by ensuring that all drums of drained used oil filters are labeled with the words, "drained used oil filters" and the accumulation start date. Excess filters must be transferred from the overfilled drum to another drum of drained used oil filters so that [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/12/2017. A training program was not uploaded to CERS website. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.
Violation Notes:	Returned to compliance on 12/14/2015. Copies of 2013 hazardous waste disposal records for used oil and used coolant were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies of the 2013 hazardous waste disposal records for used oil and used coolant to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 06/12/2017. No refresher training available . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes:	Returned to compliance on 12/14/2015. The emergency coordinator and modified contingency plan posted on the shop wall contains information that is no longer legible. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately update the emergency coordinator and modified emergency contingency plan and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-25-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 06/12/2017. The site map is missing NORTH, STORM/SEWER DRAINS as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	152857
Site Name:	SHANDS DIESEL TRUCK REPAIR
Violation Date:	08-28-2015
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes:	Returned to compliance on 12/14/2015. Dark and wet oily stains were found on the shop floor near various equipment and containers, including but not limited to the hazardous waste oil tank, the parking lot sweeper, the chop saw, and fork lift. The cardboard bailer machine has leaked oil onto the shop floor. Facilities shall be maintained and

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the dark and wet oil spills and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-25-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/12/2017. The emergency response procedures were not uploaded to CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/14/2015. The waste used oil tank lacked an accumulation start date. All hazardous waste tanks shall be marked with the words Hazardous Waste and the accumulation start date. Immediately ensure that all hazardous waste tanks are marked with the required information. The drum of hazardous waste coolant has an outdated accumulation start date of April 11, 2013. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date During the inspection a review of the disposal records indicated that the used coolant was picked up in 2015. Immediately label this container with the current accumulation start date and ensure that all hazardous waste containers are marked with all the required information including the most current accumulation start

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

date.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Violation Date: 08-28-2015
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain disposal records of spent lead batteries for three years.
Violation Notes: Returned to compliance on 12/14/2015. Bills of lading or manifests for the management of lead acid batteries for 2015, 2013 and 2012 were not found on site. A copy of each bill of lading must be kept on site for at least three years. Immediately locate a copy of all bills of lading or manifests for lead acid batteries for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: This is an amended report that supersedes all previously issued reports for this inspection. On site to perform a routine hazardous waste inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 1, 2015. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. Notes: This facility has the following waste streams:
- used oil - used coolant - used absorbent - spent lead acid batteries
- metal fines - waste water - used oil filters
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-25-2016
Violations Found: Yes

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 9/24/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Site Address: 885 E LODI AVE A
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Site Address: 885 E LODI AVE A
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-25-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 152857
Site Name: SHANDS DIESEL TRUCK REPAIR
Site Address: 885 E LODI AVE A
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-28-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Facility Mailing Address

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 342
Affiliation City:	ACAMPO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95220
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	SHANDS DIESEL TRUCK REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jefferson Stilwell
Entity Title:	mechanic
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	SHANDS, DAVID
Entity Title:	Not reported
Affiliation Address:	PO BOX 342
Affiliation City:	ACAMPO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95220
Affiliation Phone:	(209) 334-6126,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Dave Shands
Entity Title:	Not reported
Affiliation Address:	PO Box 342
Affiliation City:	Acampo
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95220

SHANDS DIESEL TRUCK REPAIR (Continued) **S121746794**

Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Dave Shands
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 334-6126,

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35 SE 1/8-1/4 0.181 mi. 957 ft. **LUSTRE CAL NAMEPLATE CORP** **715 S GUILD AVE** **LODI, CA 95240**

RCRA-SQG 1007447304
CERS HAZ WASTE CAR000154922
HAZNET
CERS
HWTS

Relative: Higher

Actual: 62 ft.

RCRA-SQG:

Date Form Received by Agency:	20040630
Handler Name:	LUSTRE CAL NAMEPLATE CORP
Handler Address:	715 S GUILD AVE
Handler City,State,Zip:	LODI, CA 95240
EPA ID:	CAR000154922
Contact Name:	CHRIS E COLBERT
Contact Address:	715 S GUILD AVE
Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-334-6263 x1624
Contact Fax:	Not reported
Contact Email:	CCOLBERT@LUSTRECAL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 439
Mailing City,State,Zip:	LODI, CA 95240
Owner Name:	HOHENRIEDER FAMILY LIVING TRUST
Owner Type:	Private
Operator Name:	LUSTRE CAL NAMEPLATE CORP
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20040712
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Waste Description: LEAD

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: LUSTRE CAL NAMEPLATE CORP
Legal Status: Private
Date Became Current: 20040622
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HOHENRIEDER FAMILY LIVING TRUST
Legal Status: Private
Date Became Current: 20010625
Date Ended Current: Not reported
Owner/Operator Address: 6545 E PELTIER RD
Owner/Operator City,State,Zip: ACAMPO, CA 95220
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040630
Handler Name: LUSTRE CAL NAMEPLATE CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 323113
NAICS Description: COMMERCIAL SCREEN PRINTING

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 33995
NAICS Description: SIGN MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Evaluation Action Summary:
Evaluations: No Evaluations Found

CERS HAZ WASTE:
Name: LUSTRE-CAL CORPORATION
Address: 715 S GUILD AVE
City,State,Zip: LODI, CA 95240
Site ID: 396901
CERS ID: 10185087
CERS Description: Hazardous Waste Onsite Treatment

Name: LUSTRE-CAL CORPORATION
Address: 715 S GUILD AVE
City,State,Zip: LODI, CA 95240
Site ID: 396901
CERS ID: 10185087
CERS Description: Hazardous Waste Generator

HAZNET:
Name: LUSTRE-CAL CORPORATION
Address: 715 S GUILD AVE
Address 2: Not reported
City,State,Zip: LODI, CA 952400000
Contact: CHRIS E COLBERT
Telephone: 2093701624
Mailing Name: Not reported
Mailing Address: 715 SOUTH GUILD AVE

Year: 2019
Gepaid: CAR000154922
TSD EPA ID: AZR000515924
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 12.25000

Year: 2019
Gepaid: CAR000154922
TSD EPA ID: NVT330010000
CA Waste Code: 352 - Other organic solids
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.06950

Year: 2019
Gepaid: CAR000154922
TSD EPA ID: NMD002208627
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.23550

Year: 2019
Gepaid: CAR000154922
TSD EPA ID: NVT330010000

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.91850

Year: 2018
Gepaid: CAR000154922
TSD EPA ID: AZR000515924
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 10.24600

Year: 2018
Gepaid: CAR000154922
TSD EPA ID: NMD002208627
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.21050

Year: 2018
Gepaid: CAR000154922
TSD EPA ID: NVT330010000
CA Waste Code: 481 - Tetraethyl lead sludge
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.38050

Year: 2018
Gepaid: CAR000154922
TSD EPA ID: NVT330010000
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.35100

Year: 2017
Gepaid: CAR000154922
TSD EPA ID: NVT330010000
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.596

Year: 2017
Gepaid: CAR000154922
TSD EPA ID: NVT330010000
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 4.896

Click this hyperlink while viewing on your computer to access
56 additional CA HAZNET: record(s) in the EDR Site Report.

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Info:

Year:	2013
Gen EPA ID:	CAR000154922
Shipment Date:	20130927
Creation Date:	2/24/2014 22:15:16
Receipt Date:	20131008
Manifest ID:	006785372FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.615
Waste Quantity:	1230
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130613
Creation Date:	10/25/2013 22:15:29
Receipt Date:	20130618
Manifest ID:	006085926FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.08
Waste Quantity:	1200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130607
Creation Date:	10/25/2013 22:15:29
Receipt Date:	20130618

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Manifest ID:	006085913FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.201
Waste Quantity:	402
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130607
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130625
Manifest ID:	006085914FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.625
Waste Quantity:	1250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130325
Creation Date:	8/15/2013 22:15:09
Receipt Date:	20130403
Manifest ID:	006085705FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.76
Waste Quantity:	1400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130107
Creation Date:	6/7/2013 22:15:09
Receipt Date:	20130115
Manifest ID:	005237249FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.67
Waste Quantity:	1340
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130103
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130103
Manifest ID:	005237245FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	5.1
Waste Quantity:	1500

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2005
Gen EPA ID: CAR000154922

Shipment Date: 20051206
Creation Date: 1/4/2007 18:30:12
Receipt Date: 20051213
Manifest ID: 24360813
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: EVERGREEN OIL INC
TSDF Alt EPA ID: CAD980887418
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 3.8
Waste Quantity: 1000
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20050817
Creation Date: 4/13/2006 18:47:49
Receipt Date: 20050902
Manifest ID: 24114374
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: EVERGREEN OIL INC
TSDF Alt EPA ID: CAD980887418
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 5.13
Waste Quantity: 1350
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 5: Not reported

Additional Info:
Year: 2016
Gen EPA ID: CAR000154922

Shipment Date: 20151222
Creation Date: 9/27/2016 18:30:52
Receipt Date: 20151229
Manifest ID: 008824042FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 5.1
Waste Quantity: 1500
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151222
Creation Date: 9/27/2016 18:30:52
Receipt Date: 20151229
Manifest ID: 008824042FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 491 - Unspecified sludge waste
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.421
Waste Quantity: 842
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150814

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150825
Manifest ID:	008826930FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.82
Waste Quantity:	1640
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150814
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150825
Manifest ID:	008826930FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.1
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150407
Creation Date:	9/11/2015 22:15:40
Receipt Date:	20150414
Manifest ID:	006085599FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 491 - Unspecified sludge waste
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.538
Waste Quantity: 1076
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150407
Creation Date: 9/11/2015 22:15:40
Receipt Date: 20150414
Manifest ID: 006085599FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 4.59
Waste Quantity: 1350
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2012
Gen EPA ID: CAR000154922

Shipment Date: 20121016
Creation Date: 1/5/2013 22:15:31
Receipt Date: 20121017
Manifest ID: 005237079FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD059494310
Trans Name: CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID: Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	5.1748
Waste Quantity:	1522
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120816
Creation Date:	2/3/2013 22:15:07
Receipt Date:	20120828
Manifest ID:	005236960FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	1.075
Waste Quantity:	2150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120629
Creation Date:	10/4/2012 22:15:11
Receipt Date:	20120629
Manifest ID:	005236870FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	5.0762
Waste Quantity:	1493
Quantity Unit:	G
Additional Code 1:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120417
Creation Date:	6/27/2012 20:30:19
Receipt Date:	20120417
Manifest ID:	004863646FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	5.1748
Waste Quantity:	1522
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120201
Creation Date:	6/27/2012 20:30:08
Receipt Date:	20120207
Manifest ID:	004863431FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120201
Creation Date:	6/27/2012 20:30:08
Receipt Date:	20120207

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Manifest ID:	004863431FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120201
Creation Date:	8/16/2013 22:15:19
Receipt Date:	20120224
Manifest ID:	004863432FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120113
Creation Date:	3/17/2012 20:30:22
Receipt Date:	Not reported
Manifest ID:	004863395FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC (NEWARK)

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.25
Waste Quantity:	1250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAR000154922
Shipment Date:	20090922
Creation Date:	3/5/2010 18:30:45
Receipt Date:	20090929
Manifest ID:	002709830FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090922
Creation Date:	4/12/2010 18:30:17
Receipt Date:	20091012
Manifest ID:	002709831FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO CHEMICAL INDUSTRIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090428
Creation Date:	9/23/2009 18:30:21
Receipt Date:	20090521
Manifest ID:	002260935FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO CHEMICAL INDUSTRIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.594
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090428
Creation Date:	9/23/2009 18:30:21
Receipt Date:	20090521
Manifest ID:	002260935FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO CHEMICAL INDUSTRIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001
Additional Code 4:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 5:	Not reported
Shipment Date:	20090428
Creation Date:	9/23/2009 18:30:21
Receipt Date:	20090521
Manifest ID:	002260935FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO CHEMICAL INDUSTRIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090325
Creation Date:	9/11/2012 22:15:10
Receipt Date:	Not reported
Manifest ID:	002709535FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	- Not reported
Quantity Tons:	0.594
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090325
Creation Date:	9/11/2012 22:15:10
Receipt Date:	Not reported
Manifest ID:	002709535FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D035
Meth Code:	- Not reported
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAR000154922
Shipment Date:	20071116
Creation Date:	3/4/2008 18:30:07
Receipt Date:	20071121
Manifest ID:	001092368FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.726
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070713
Creation Date:	11/3/2007 18:30:58
Receipt Date:	20070719
Manifest ID:	000920676FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5445
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070711
Creation Date:	11/5/2007 18:30:36
Receipt Date:	20070711
Manifest ID:	000980207FLE
Trans EPA ID:	CAL000827878
Trans Name:	AMERICAN VALLEY WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190816
Trans Name:	RIVERBANK OIL TRANSFER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.56
Waste Quantity:	1200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070327
Creation Date:	12/10/2007 18:30:29
Receipt Date:	20070410
Manifest ID:	000196343CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070327
Creation Date:	12/10/2007 18:30:29
Receipt Date:	20070410
Manifest ID:	000196343CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070327
Creation Date:	12/10/2007 18:30:29
Receipt Date:	20070410
Manifest ID:	000196343CEX
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070112
Creation Date:	10/8/2007 18:30:17
Receipt Date:	20070126
Manifest ID:	001783791JJK

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.6
Waste Quantity: 1200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2008
Gen EPA ID: CAR000154922

Shipment Date: 20081204
Creation Date: 2/20/2009 18:30:31
Receipt Date: 20081224
Manifest ID: 002260838FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS ENVIROMENTAL SVCS
TSDF EPA ID: CAD059494310
Trans Name: CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: F003
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.594
Waste Quantity: 165
Quantity Unit: G
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20080805
Creation Date: 10/13/2008 18:30:08
Receipt Date: 20080814
Manifest ID: 001179428FLE
Trans EPA ID: CAR000070540
Trans Name: ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS ENV SERVICES

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.792
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080805
Creation Date:	10/13/2008 18:30:08
Receipt Date:	20080814
Manifest ID:	001179428FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080416
Creation Date:	7/25/2008 18:30:17
Receipt Date:	20080501
Manifest ID:	002070049FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.594
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080416
Creation Date:	8/7/2008 18:30:22
Receipt Date:	20080423
Manifest ID:	002070048FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080123
Creation Date:	5/22/2008 18:30:15
Receipt Date:	20080130
Manifest ID:	001843521FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.5445
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 5:	Not reported
Shipment Date:	20080123
Creation Date:	5/22/2008 18:30:15
Receipt Date:	20080130
Manifest ID:	001843521FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAR000154922
Shipment Date:	20111111
Creation Date:	1/27/2012 20:30:28
Receipt Date:	20111111
Manifest ID:	004901493FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.46
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110926
Creation Date:	12/9/2011 18:30:36

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Receipt Date:	20110930
Manifest ID:	004901442FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.25
Waste Quantity:	1250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110912
Creation Date:	2/15/2012 20:30:12
Receipt Date:	20110920
Manifest ID:	004901381FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.675
Waste Quantity:	1350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110912
Creation Date:	2/15/2012 20:30:12
Receipt Date:	20110920
Manifest ID:	004901381FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110912
Creation Date:	12/9/2011 18:30:51
Receipt Date:	20110930
Manifest ID:	004901380FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110825
Creation Date:	10/19/2011 18:30:46
Receipt Date:	20110826
Manifest ID:	003447334FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Quantity Tons:	2.1
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110516
Creation Date:	11/12/2011 18:30:22
Receipt Date:	20110524
Manifest ID:	003931111FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110321
Creation Date:	8/25/2011 18:30:27
Receipt Date:	20110329
Manifest ID:	003930914FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 5:	Not reported
Shipment Date:	20110321
Creation Date:	8/25/2011 18:30:27
Receipt Date:	20110329
Manifest ID:	003930914FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAR000154922
Shipment Date:	20141212
Creation Date:	5/18/2015 22:15:16
Receipt Date:	20141223
Manifest ID:	006985610FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.0524
Waste Quantity:	1486
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141212

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Creation Date:	5/18/2015 22:15:16
Receipt Date:	20141223
Manifest ID:	006985610FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.412
Waste Quantity:	824
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140822
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20140902
Manifest ID:	007092086FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.482
Waste Quantity:	964
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140822
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20140902
Manifest ID:	007092086FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.1
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140529
Creation Date:	11/3/2014 22:14:40
Receipt Date:	20140610
Manifest ID:	007091711FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0285
Waste Quantity:	57
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140514
Creation Date:	10/10/2014 22:15:06
Receipt Date:	20140527
Manifest ID:	006785138FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	Regeneration, Organics Recovery Ect
Quantity Tons:	0.88
Waste Quantity:	1760
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140514
Creation Date:	10/10/2014 22:15:06
Receipt Date:	20140527
Manifest ID:	006785138FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.59
Waste Quantity:	1350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140514
Creation Date:	11/1/2014 22:15:11
Receipt Date:	20140604
Manifest ID:	006785137FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.255
Waste Quantity:	510
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140225
Creation Date:	7/18/2014 22:15:07
Receipt Date:	20140304
Manifest ID:	006784870FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.76
Waste Quantity:	1400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAR000154922
Shipment Date:	20171218
Creation Date:	10/16/2018 18:31:15
Receipt Date:	20171222
Manifest ID:	011094856FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	CAR000269688
Trans 2 Name:	LEITON HAULS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.065
Waste Quantity:	130
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Shipment Date:	20171218
Creation Date:	10/16/2018 18:31:15
Receipt Date:	20171222
Manifest ID:	011094856FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	CAR000269688
Trans 2 Name:	LEITON HAULS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.44
Waste Quantity:	880
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171218
Creation Date:	10/23/2018 18:30:12
Receipt Date:	Not reported
Manifest ID:	011094855FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	4.64
Waste Quantity:	9280
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171218
Creation Date:	10/16/2018 18:30:53
Receipt Date:	20180112
Manifest ID:	011094857FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF EPA ID:	NMD002208627
Trans Name:	ADVANCED CHEMICAL TREATMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22
Waste Quantity:	440
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170830
Creation Date:	11/1/2018 18:30:30
Receipt Date:	20170912
Manifest ID:	011046645FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.72
Waste Quantity:	800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170626
Creation Date:	7/17/2018 18:30:34
Receipt Date:	20170706
Manifest ID:	010242626FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	Regeneration, Organics Recovery Ect
Quantity Tons:	0.196
Waste Quantity:	392
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170510
Creation Date:	7/13/2018 18:30:08
Receipt Date:	20170519
Manifest ID:	010243323FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.896
Waste Quantity:	1440
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170510
Creation Date:	7/13/2018 18:30:08
Receipt Date:	20170519
Manifest ID:	010243323FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAR000154922
Shipment Date:	20151222
Creation Date:	9/27/2016 18:30:52
Receipt Date:	20151229
Manifest ID:	008824042FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.1
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151222
Creation Date:	9/27/2016 18:30:52
Receipt Date:	20151229
Manifest ID:	008824042FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.421
Waste Quantity:	842
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Shipment Date:	20150814
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150825
Manifest ID:	008826930FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.82
Waste Quantity:	1640
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150814
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150825
Manifest ID:	008826930FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	5.1
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150407
Creation Date:	9/11/2015 22:15:40
Receipt Date:	20150414
Manifest ID:	006085599FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.538
Waste Quantity:	1076
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150407
Creation Date:	9/11/2015 22:15:40
Receipt Date:	20150414
Manifest ID:	006085599FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT INC (SV)
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.59
Waste Quantity:	1350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAR000154922

Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007963SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007962SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	121 - Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007962SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007962SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	121 - Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007962SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007964SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007963SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	121 - Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061220

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007963SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007964SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061220
Creation Date:	8/7/2007 18:30:14
Receipt Date:	20070109
Manifest ID:	000007964SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000618

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	D006
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAR000154922
Shipment Date:	20101203
Creation Date:	5/24/2011 18:30:12
Receipt Date:	20101214
Manifest ID:	003930602FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.10425
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	5/19/2011 18:30:24
Receipt Date:	20101227
Manifest ID:	003930531FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS TRUCKING INC
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO CHEMICAL INDUSTRIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	D035

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	5/24/2011 18:30:12
Receipt Date:	20101214
Manifest ID:	003930602FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003930602FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003930602FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	5/24/2011 18:30:12
Receipt Date:	20101214
Manifest ID:	003930602FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101203
Creation Date:	5/24/2011 18:30:12
Receipt Date:	20101214
Manifest ID:	003930602FLE

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101111
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101203
Manifest ID:	003447472FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	225
Quantity Unit:	Not reported
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101111
Creation Date:	2/19/2011 18:30:32
Receipt Date:	20101203
Manifest ID:	003447472FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS OF SAN JOSE LLC (SAN JOSE FACILITY)
TSDF Alt EPA ID:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2125
Waste Quantity:	425
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101111
Creation Date:	4/27/2011 18:30:07
Receipt Date:	20101123
Manifest ID:	003447473FLE
Trans EPA ID:	CAR000070540
Trans Name:	ADVANCED CHEMICAL TRANSPORT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	LUSTRE-CAL CORPORATION
Address:	715 S GUILD AVE
City,State,Zip:	LODI, CA 95240
Site ID:	396901
CERS ID:	110018871611
CERS Description:	US EPA Air Emission Inventory System (EIS)

Violations:

Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25200.3(e)(3) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(e)(3)
Violation Description:	Failure to identify the following information in CERS: all generator information, all Conditional Authorization treatment units, accurately list number of tanks and containers in each unit, and plot plan/map that shows unit locations are properly identified.

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Violation Notes:	Returned to compliance on 04/17/2019. OBSERVATIONS: 1. The Treatment Permit site map in CERS is incomplete. Tanks are listed by letter and number but there is no description of their function and contents. The waste flows going to the T1 and T2 tanks from the waste water sources are not listed and described. 2. The facility has not completed an annual hazardous waste minimization certification in CERS within the past 365 days. REGULATIONS: HSC 25200.3(e)(3) Each notification submitted pursuant to this subdivision shall be completed, dated, and signed according to the requirements of Section 66270.11 of Title 22 of the California Code of Regulations, as those requirements that were in effect on January 1, 1996, and apply to hazardous waste facilities permit applications, shall be on a form prescribed by the department, and shall include, but not be limited to, all of the following information: (A) The name, identification number, site address, mailing address, and telephone number of the generator to w
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CA
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 45 67450.13(a)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(2)
Violation Description:	Failure to adjust Closure Costs for inflation/deflation by March 1st.
Violation Notes:	Returned to compliance on 04/02/2019. OBSERVATION: An adjustment for the closure cost estimate was not completed by March 1 of each year. The existing estimate has not been adjusted since 2011. The fixed treatment unit owner or operator, or a generator operating pursuant to a grant of Conditional Authorization shall adjust the closure cost estimate for inflation by March 1 of each year. The adjustment shall be made as specified in subsections (a)(2)(A) and (a)(2)(B) of this section, using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator of the previous year. (A) The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate. (B) Subsequent adjustments are made by multiplying the latest adjusted closure cost est
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CA
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	07-09-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/18/2018. A site map was not missing NORTH, EMERGENCY RESPONSE EQUIPMENT and LEGEND. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 05-05-2014
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Training - General
Violation Notes: Returned to compliance on 05/29/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: 22 CCR 15 66265.52 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.52
Violation Description: Failure to include all of the following in the Contingency Plan: description of actions personnel will take in response to a release or emergency, arrangements with local authorities, list of emergency coordinators including name, addresses & phone numbers, list of emergency equipment and their physical description, location and capabilities, evacuation plan, and OES phone number. (If the owner or operator has already prepared a Spill Prevention, Control, and Countermeasures (SPCC) Plan or some other emergency or contingency plan, the owner or operator need only amend that plan to incorporate hazardous waste management provisions.)
Violation Notes: Returned to compliance on 02/22/2019. The facility s contingency plan is incomplete. The notification method for evacuating was not described in the contingency plan and the Cal OES phone number was out of date. The contingency plan must include: 1. Description of actions facility personnel will take in response to fires, explosions, or any sudden or non-sudden release of hazardous waste to air, soil or surface water at the facility; 2. Description of arrangements made with local police departments, fire departments, hospitals, contractors and State and local emergency response teams to coordinate emergency services; 3. List of names, addresses, and phone numbers (office/home/cell) of all persons qualified to act as emergency coordinator. Where more than one person is listed, one shall be named as the primary emergency coordinator and all others in order in which they will assume responsibilities; 4. List all emergency equipment, which includes location, physical description, and brief outline
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 04/30/2019. Facility does not have a tank assessment for hazardous waste tanks T8, T9, and T10 (approximately 800 gallons each tank) that contain waste seal and dye. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. Immediately have an assessment prepared for hazardous waste tanks T8, T9 and T10. Submit a schedule showing when this will be accomplished to the EHD and submit the tank assessments when they are completed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25200.3(c)(6),25200.3(c)(7) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(c)(6),25200.3(c)(7)
Violation Description:	Failure of the generator to prepare and maintain onsite, for a period of five years, adequate records to demonstrate that requirements and conditions of the grant of conditional authorization are met.
Violation Notes:	Returned to compliance on 04/17/2019. OBSERVATIONS: 1. The written operating instructions for the waste water treatment system did not include the screen print waste stream. 2. The facility could not provide a record of the dates, concentrations, amounts, and types of all treated hazardous waste. REGULATION: (6) The generator shall prepare and maintain written operating instructions and a record of the dates, concentrations, amounts, and types of waste treated. Records maintained to comply with the state, federal, or local programs may be used to satisfy this requirement, to the extent that those documents substantially comply with the requirements of this section. The operating instructions shall include, but not be limited to, directions regarding all of the following: (A) How to operate the treatment unit and carry out waste treatment. (B) How to recognize potential and actual process upsets and respond to them. (C) When to implement the contingency plan. (D) How to determine if t
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CA
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/22/2019. Per SB2111, 25143.13 of the California Health and Safety Code (HSC), silver-only hazardous wastes are regulated according to RCRA regulations. The facility periodically generates enough RCRA waste to exceed the 100kg limit for very small quantity generators every year. According to the manager, the silver waste has been accumulated without disposing of it. Per 40 CFR 261.1(c)(8), A material is accumulated speculatively if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that - during the calendar year (commencing on January 1) - the amount of material that is recycled, or transferred to a different site for recycling, equals at least 75 percent by weight or volume of the amount of that material accumulated at the beginning of the period. Materials must be placed in a storage unit with a label indicat
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes:	Returned to compliance on 02/26/2019. Copies of hazardous waste disposal records for 2016 were not found on site for used oil and used oil filters. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit the missing copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description:	Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes:	Returned to compliance on 03/27/2019. In the maintenance area: One 5 gallon plastic container with used oil in it was observed with an 8/29/2018 accumulation start date. One 55 gallon black steel drum containing non punctured/crushed oil filters was observed without an accumulation start date. Facilities who generate more than 1000 kg of hazardous waste per month may store waste on site up to 90 days. Immediately contact a licensed hazardous waste hauler to dispose of

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	05-05-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/05/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)
Violation Description:	Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, and tank systems authorized under Permit-by-Rule, Conditional Authorization, and Conditional Exemption or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.
Violation Notes:	Returned to compliance on 04/30/2019. OBSERVATION: The hazardous waste treatment system was last assessed by a Professional Engineer in 2011. (h)(1) Notwithstanding subsections (a) through (g) of this section, design and installation of new tank systems or components used to manage hazardous waste, and which meet the criteria specified in subsection (h)(2) of this section, are not subject to the requirements of subsections (h) through (m) of this section until January 24, 1998. The assessment specified in subsection (k) of this section shall be obtained prior to placing a new tank system in service and shall be kept on file at the facility. This assessment shall be reviewed and certified by an independent, qualified, professional engineer, registered in California, in accordance with section 66270.11(d), attesting that the tank system has sufficient structural integrity and is acceptable for the transferring, storing and treating of hazardous waste. The assessment shall be valid for a maximum period of five (5) years or
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CA
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 02/26/2019. In the treatment area, one 55 gallon black metal drum containing activated carbon was observed without hazardous properties on the label. In the maintenance area: One 5 gallon container with used oil in it was observed with a hazardous waste label missing the physical state and the hazardous properties. One 55 gallon black steel drum containing non punctured/crushed oil filters was observed without a hazardous waste label. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to label stationary hazardous waste tanks as "hazardous waste" and mark with an accumulation start date.
Violation Notes: Returned to compliance on 02/22/2019. Tank one and Tank two in the treatment area were observed without labels. All hazardous waste tanks shall be marked with the words Hazardous Waste and the accumulation start date. Immediately ensure that all hazardous waste tanks are marked with the required information.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 05-05-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 05/29/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-25-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: This facility treats waste water by pH adjustment from four processes: dark room, anodizing, etch and screen printing. The waste water is discharged to the City of Lodi waste water treatment plant. Complete and submit a copy of the Return to Compliance Certification form to

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by February 25, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-22-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 6/21/2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/8/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-25-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by February 24, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Discussed forklift maintenance and oil filter regulations with Chris Colbert. The facility has a maintenance area where oil filters and used oil are stored. Waste Streams: waste ink, paint sludge, spent acetone, used

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

oil, used oil filters The facility treats approximately 114.5 tons a year.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: CA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Site Address: 715 S GUILD AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 05-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Site Address: 715 S GUILD AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-09-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 396901
Facility Name: LUSTRE-CAL CORPORATION
Env Int Type Code: HMBP
Program ID: 10185087

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.125950
Longitude: -121.248720

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Chris Colbert
Entity Title: Not reported
Affiliation Address: 715 South Guild Ave
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: CHRIS E COLBERT
Entity Title: Not reported
Affiliation Address: 715 S GUILD AVE
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: LUSTRE-CAL LLC
Entity Title: Not reported
Affiliation Address: 715 SOUTH GUILD AVENUE
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 370-1600,

Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Chris Colbert
Entity Title: Dir of Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: COLBERT, CHRIS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 370-1624,

Affiliation Type Desc: Property Owner

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Entity Name:	LUSTRE CAL
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVENUE
Affiliation City:	LODI
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Colbert
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVENUE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Chris Colbert
Entity Title:	Vice President of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Colbert
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVE
Affiliation City:	LODI
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Joe Hohenrieder
Entity Title: Not reported
Affiliation Address: 13481 Forest Park Circle
Affiliation City: Penn Valley
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95946
Affiliation Phone: (925) 876-9263,

Affiliation Type Desc: Parent Corporation
Entity Name: LUSTRE CAL NAMEPLATE CORPORATION
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: LUSTRE-CAL CORPORATION
Address: 715 S GUILD AVE
City,State,Zip: LODI, CA 95240
Site ID: 396901
CERS ID: 10185087
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: HSC 6.5 25200.3(e)(3) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(e)(3)
Violation Description: Failure to identify the following information in CERS: all generator information, all Conditional Authorization treatment units, accurately list number of tanks and containers in each unit, and plot plan/map that shows unit locations are properly identified.
Violation Notes: Returned to compliance on 04/17/2019. OBSERVATIONS: 1. The Treatment Permit site map in CERS is incomplete. Tanks are listed by letter and number but there is no description of their function and contents. The waste flows going to the T1 and T2 tanks from the waste water sources are not listed and described. 2. The facility has not completed an annual hazardous waste minimization certification in CERS within the past 365 days. REGULATIONS: HSC 25200.3(e)(3) Each notification submitted pursuant to this subdivision shall be completed, dated, and signed according to the requirements of Section 66270.11 of Title 22 of the California Code of Regulations, as those requirements that were in effect on January 1, 1996, and apply to hazardous waste facilities permit applications, shall be on a form prescribed by the department, and shall include, but not be limited to, all of the following information: (A) The name, identification number, site address, mailing address, and telephone number of the generator to w
Violation Division: San Joaquin County Environmental Health
Violation Program: CA
Violation Source: CERS,

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: 22 CCR 45 67450.13(a)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(2)
Violation Description: Failure to adjust Closure Costs for inflation/deflation by March 1st.
Violation Notes: Returned to compliance on 04/02/2019. OBSERVATION: An adjustment for the closure cost estimate was not completed by March 1 of each year. The existing estimate has not been adjusted since 2011. The fixed treatment unit owner or operator, or a generator operating pursuant to a grant of Conditional Authorization shall adjust the closure cost estimate for inflation by March 1 of each year. The adjustment shall be made as specified in subsections (a)(2)(A) and (a)(2)(B) of this section, using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator of the previous year. (A) The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate. (B) Subsequent adjustments are made by multiplying the latest adjusted closure cost est
Violation Division: San Joaquin County Environmental Health
Violation Program: CA
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 07-09-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 07/18/2018. A site map was not missing NORTH, EMERGENCY RESPONSE EQUIPMENT and LEGEND. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 05-05-2014
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Training - General
Violation Notes: Returned to compliance on 05/29/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 15 66265.52 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.52
Violation Description:	Failure to include all of the following in the Contingency Plan: description of actions personnel will take in response to a release or emergency, arrangements with local authorities, list of emergency coordinators including name, addresses & phone numbers, list of emergency equipment and their physical description, location and capabilities, evacuation plan, and OES phone number. (If the owner or operator has already prepared a Spill Prevention, Control, and Countermeasures (SPCC) Plan or some other emergency or contingency plan, the owner or operator need only amend that plan to incorporate hazardous waste management provisions.)
Violation Notes:	Returned to compliance on 02/22/2019. The facility s contingency plan is incomplete. The notification method for evacuating was not described in the contingency plan and the Cal OES phone number was out of date. The contingency plan must include: 1. Description of actions facility personnel will take in response to fires, explosions, or any sudden or non-sudden release of hazardous waste to air, soil or surface water at the facility; 2. Description of arrangements made with local police departments, fire departments, hospitals, contractors and State and local emergency response teams to coordinate emergency services; 3. List of names, addresses, and phone numbers (office/home/cell) of all persons qualified to act as emergency coordinator. Where more than one person is listed, one shall be named as the primary emergency coordinator and all others in order in which they will assume responsibilities; 4. List all emergency equipment, which includes location, physical description, and brief outline
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 04/30/2019. Facility does not have a tank assessment for hazardous waste tanks T8, T9, and T10 (approximately 800 gallons each tank) that contain waste seal and dye. The owner or operator of a hazardous waste tank shall obtain a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California attesting that the system has sufficient structural integrity, is acceptable for the transferring, storing, and treating of hazardous waste, and that the tanks and containment system are suitably designed. Immediately have an assessment prepared for hazardous waste tanks T8, T9 and T10. Submit a

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

schedule showing when this will be accomplished to the EHD and submit the tank assessments when they are completed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: HSC 6.5 25200.3(c)(6),25200.3(c)(7) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(c)(6),25200.3(c)(7)
Violation Description: Failure of the generator to prepare and maintain onsite, for a period of five years, adequate records to demonstrate that requirements and conditions of the grant of conditional authorization are met.
Violation Notes: Returned to compliance on 04/17/2019. OBSERVATIONS: 1. The written operating instructions for the waste water treatment system did not include the screen print waste stream. 2. The facility could not provide a record of the dates, concentrations, amounts, and types of all treated hazardous waste. REGULATION: (6) The generator shall prepare and maintain written operating instructions and a record of the dates, concentrations, amounts, and types of waste treated. Records maintained to comply with the state, federal, or local programs may be used to satisfy this requirement, to the extent that those documents substantially comply with the requirements of this section. The operating instructions shall include, but not be limited to, directions regarding all of the following: (A) How to operate the treatment unit and carry out waste treatment. (B) How to recognize potential and actual process upsets and respond to them. (C) When to implement the contingency plan. (D) How to determine if t
Violation Division: San Joaquin County Environmental Health
Violation Program: CA
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/22/2019. Per SB2111, 25143.13 of the California Health and Safety Code (HSC), silver-only hazardous wastes are regulated according to RCRA regulations. The facility periodically generates enough RCRA waste to exceed the 100kg limit for very small quantity generators every year. According to the manager, the silver waste has been accumulated without disposing of it. Per 40 CFR 261.1(c)(8), A material is accumulated speculatively if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that - during the calendar year (commencing on January 1) - the amount of material that is recycled, or transferred to a different site for recycling, equals at least 75 percent by weight or volume of the amount of that material accumulated at the beginning of the period. Materials must be placed in a storage unit with a label indicat
Violation Division: San Joaquin County Environmental Health
Violation Program: HW

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes:	Returned to compliance on 02/26/2019. Copies of hazardous waste disposal records for 2016 were not found on site for used oil and used oil filters. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit the missing copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description:	Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes:	Returned to compliance on 03/27/2019. In the maintenance area: One 5 gallon plastic container with used oil in it was observed with an 8/29/2018 accumulation start date. One 55 gallon black steel drum containing non punctured/crushed oil filters was observed without an accumulation start date. Facilities who generate more than 1000 kg of hazardous waste per month may store waste on site up to 90 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	05-05-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/05/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Citation:	22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)
Violation Description:	Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, and tank systems authorized under Permit-by-Rule, Conditional Authorization, and Conditional Exemption or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.
Violation Notes:	Returned to compliance on 04/30/2019. OBSERVATION: The hazardous waste treatment system was last assessed by a Professional Engineer in 2011. (h)(1) Notwithstanding subsections (a) through (g) of this section, design and installation of new tank systems or components used to manage hazardous waste, and which meet the criteria specified in subsection (h)(2) of this section, are not subject to the requirements of subsections (h) through (m) of this section until January 24, 1998. The assessment specified in subsection (k) of this section shall be obtained prior to placing a new tank system in service and shall be kept on file at the facility. This assessment shall be reviewed and certified by an independent, qualified, professional engineer, registered in California, in accordance with section 66270.11(d), attesting that the tank system has sufficient structural integrity and is acceptable for the transferring, storing and treating of hazardous waste. The assessment shall be valid for a maximum period of five (5) years or
Violation Division:	San Joaquin County Environmental Health
Violation Program:	CA
Violation Source:	CERS,
Site ID:	396901
Site Name:	LUSTRE-CAL CORPORATION
Violation Date:	01-25-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 02/26/2019. In the treatment area, one 55 gallon black metal drum containing activated carbon was observed without hazardous properties on the label. In the maintenance area: One 5 gallon container with used oil in it was observed with a hazardous waste label missing the physical state and the hazardous properties. One 55 gallon black steel drum containing non punctured/crushed oil filters was observed without a hazardous waste label. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 01-25-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to label stationary hazardous waste tanks as "hazardous waste" and mark with an accumulation start date.
Violation Notes: Returned to compliance on 02/22/2019. Tank one and Tank two in the treatment area were observed without labels. All hazardous waste tanks shall be marked with the words Hazardous Waste and the accumulation start date. Immediately ensure that all hazardous waste tanks are marked with the required information.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Violation Date: 05-05-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 05/29/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-25-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: This facility treats waste water by pH adjustment from four processes: dark room, anodizing, etch and screen printing. The waste water is discharged to the City of Lodi waste water treatment plant. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by February 25, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: CA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-22-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 6/21/2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

	Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/8/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-25-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by February 24, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Discussed forklift maintenance and oil filter regulations with Chris Colbert. The facility has a maintenance area where oil filters and used oil are stored. Waste Streams: waste ink, paint sludge, spent acetone, used oil, used oil filters The facility treats approximately 114.5 tons a year.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	CA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Site Address: 715 S GUILD AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 05-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 396901
Site Name: LUSTRE-CAL CORPORATION
Site Address: 715 S GUILD AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-09-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 396901
Facility Name: LUSTRE-CAL CORPORATION
Env Int Type Code: HMBP
Program ID: 10185087
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.125950
Longitude: -121.248720

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Chris Colbert
Entity Title: Not reported
Affiliation Address: 715 South Guild Ave
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: CHRIS E COLBERT
Entity Title: Not reported
Affiliation Address: 715 S GUILD AVE
Affiliation City: LODI

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	LUSTRE-CAL LLC
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVENUE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 370-1600,
Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Chris Colbert
Entity Title:	Dir of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	COLBERT, CHRIS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 370-1624,
Affiliation Type Desc:	Property Owner
Entity Name:	LUSTRE CAL
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVENUE
Affiliation City:	LODI
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Colbert

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVENUE
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Chris Colbert
Entity Title:	Vice President of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Colbert
Entity Title:	Not reported
Affiliation Address:	715 SOUTH GUILD AVE
Affiliation City:	LODI
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Joe Hohenrieder
Entity Title:	Not reported
Affiliation Address:	13481 Forest Park Circle
Affiliation City:	Penn Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95946
Affiliation Phone:	(925) 876-9263,
Affiliation Type Desc:	Parent Corporation
Entity Name:	LUSTRE CAL NAMEPLATE CORPORATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

LUSTRE CAL NAMEPLATE CORP (Continued) **1007447304**

HWTS:

Name:	LUSTRE-CAL CORPORATION
Address:	715 S GUILD AVE
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAR000154922
Inactive Date:	06/30/2021
Create Date:	12/30/2004
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	715 SOUTH GUILD AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952400000
Owner Name:	LUSTRE-CAL CORP
Owner Address:	PO BOX 439
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952400000
Contact Name:	CHRIS E COLBERT
Contact Address:	715 S GUILD AVE
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	38.126588
Longitude:	-121.248081

NAICS:

EPA ID:	CAR000154922
Create Date:	2005-09-27 15:01:35.000
NAICS Code:	332812
NAICS Description:	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
Issued EPA ID Date:	2004-12-30 14:43:03
Inactive Date:	Not reported
Facility Name:	LUSTRE-CAL CORPORATION
Facility Address:	715 S GUILD AVE
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400000

EPA ID:	CAR000154922
Create Date:	2005-09-27 15:01:35.000
NAICS Code:	332812
NAICS Description:	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
Issued EPA ID Date:	2004-12-30 14:43:03
Inactive Date:	Not reported
Facility Name:	LUSTRE-CAL CORPORATION
Facility Address:	715 S GUILD AVE
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400000

G36
NW
1/8-1/4
0.187 mi.
986 ft.

HEARTLAND STEEL PRODUCTS WEST, LLC LP
213 KELLY STREET
LODI, CA 95240

Site 4 of 11 in cluster G

RCRA-LQG **1019899401**
CAL000361178

Relative:
Lower

Actual:
52 ft.

RCRA-LQG:

Date Form Received by Agency:	20180328
Handler Name:	HEARTLAND STEEL PRODUCTS WEST, LLC LP
Handler Address:	213 KELLY STREET
Handler City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000361178
Contact Name:	WES HIEB
Contact Address:	KELLY STREET
Contact City,State,Zip:	LODI, CA 95240
Contact Telephone:	209-367-4464
Contact Fax:	209-367-4445
Contact Email:	WHIEB@HEARTLANDSTEEL.COM
Contact Title:	DIRECTOR OF OPERATIONS
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2017
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	KELLY STREET
Mailing City,State,Zip:	LODI, CA 95240
Owner Name:	HEARTLAND STEEL PRODUCTS WEST LLC LP
Owner Type:	Private
Operator Name:	WES HIEB
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

HEARTLAND STEEL PRODUCTS WEST, LLC LP (Continued) **1019899401**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181126
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008

HEARTLAND STEEL PRODUCTS WEST, LLC LP (Continued) **1019899401**

Waste Description: LEAD

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SPACERAK
Legal Status:	Private
Date Became Current:	20100101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HEARTLAND STEEL WEST LLC
Legal Status:	Private
Date Became Current:	20100101
Date Ended Current:	Not reported
Owner/Operator Address:	2420 WILLS STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040
Owner/Operator Telephone:	810-364-7421
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HEARTLAND STEEL PRODUCTS WEST LLC LP
Legal Status:	Private
Date Became Current:	20161101
Date Ended Current:	Not reported
Owner/Operator Address:	2420 WILLS STREET
Owner/Operator City,State,Zip:	MARYSVILLE, MI 48040
Owner/Operator Telephone:	615-887-0513
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	LSUTTERER@HEARTLANDSTEEL.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WES HIEB
Legal Status:	Private
Date Became Current:	20180201
Date Ended Current:	Not reported
Owner/Operator Address:	213 KELLY STREET
Owner/Operator City,State,Zip:	LODI, CA 95240
Owner/Operator Telephone:	209-367-4464
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	WHIEB@HEARTLANDSTEEL.COM

HEARTLAND STEEL PRODUCTS WEST, LLC LP (Continued) **1019899401**

Historic Generators:

Receive Date:	20160916
Handler Name: HEARTLAND STEEL	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20180328
Handler Name: HEARTLAND STEEL PRODUCTS WEST, LLC LP	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	321992
NAICS Description:	PREFABRICATED WOOD BUILDING MANUFACTURING

NAICS Code:	332312
NAICS Description:	FABRICATED STRUCTURAL METAL MANUFACTURING

NAICS Code:	337215
NAICS Description:	SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

G37 **LODI METAL TECH (CLOSED-CO)** **RGA LUST** **S114644796**
NW **213 KELLY ST S** **N/A**
1/8-1/4 **LODI, CA**
0.187 mi.
986 ft. **Site 5 of 11 in cluster G**

Relative: **Lower**
Actual: **52 ft.**

RGA LUST:

Name:	LODI METAL TECH (CLOSED-CO)
Address:	213 KELLY ST S
City:	LODI
State:	LODI

1993 LODI METAL TECH (CLOSED-CO) 213 KELLY ST S

G38 **LODI METAL TECH** **RGA LUST** **S114644797**
NW **213 KELLY ST S** **N/A**
1/8-1/4 **LODI, CA**
0.187 mi.
986 ft. **Site 6 of 11 in cluster G**

Relative:
Lower

Actual:
52 ft.

RGA LUST:

Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2012	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2011	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2010	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2009	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2008	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2007	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2006	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2005	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2003	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		
City:	LODI		
State:	LODI		
	2002	LODI METAL TECH	213 KELLY ST S
Name:	LODI METAL TECH		
Address:	213 KELLY ST S		

LODI METAL TECH (Continued) **S114644797**

City: LODI
State: LODI
2001 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
2000 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
1998 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
1997 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
1996 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
1995 LODI METAL TECH 213 KELLY ST S
Name: LODI METAL TECH
Address: 213 KELLY ST S
City: LODI
State: LODI
1994 LODI METAL TECH 213 KELLY ST S

G39 **NOBUO KISHIDA** **HIST UST** **S118413353**
NW **177 SO KELLY ST** **N/A**
1/8-1/4 **STOCKTON, CA 95240**
0.196 mi.
1033 ft. **Site 7 of 11 in cluster G**

Relative: HIST UST:
Lower
Name: NOBUO KISHIDA
Actual: Address: 177 SO KELLY ST
52 ft. City,State,Zip: STOCKTON, CA 95240
File Number: 0002FF81
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FF81.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported

NOBUO KISHIDA (Continued) **S118413353**

Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

H40 **LODI READY MIX** **LUST** **S105033906**
WNW **851 LODI AVE E** **Cortese** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.198 mi.
1048 ft. **Site 3 of 8 in cluster H**

Relative:
Lower

Actual:
52 ft.

LUST:

Name:	LODI READY MIX
Address:	851 LODI AVE E
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700362
Global Id:	T0607700362
Latitude:	38.131808
Longitude:	-121.256455
Status:	Completed - Case Closed
Status Date:	11/07/1995
Case Worker:	Not reported
RB Case Number:	390467
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1359
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700362
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700362
Action Type:	Other
Date:	02/06/1990
Action:	Leak Reported

Global Id:	T0607700362
Action Type:	REMEDIATION
Date:	01/29/1989
Action:	Not reported

LODI READY MIX (Continued) **S105033906**

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 01/29/1996
Action: Staff Letter - #1/29/1996

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 06/18/1993
Action: Staff Letter - #6/18/1993

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 03/29/1990
Action: Other Report - #3/29/1990

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 04/13/1993
Action: Staff Letter - #5/4/1990

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 10/26/1995
Action: Deed Restriction Release / Recission of LUC - #10/26/1995

Global Id: T0607700362
Action Type: RESPONSE
Date: 08/02/1993
Action: Other Report / Document

Global Id: T0607700362
Action Type: RESPONSE
Date: 05/12/1995
Action: Request for Closure

Global Id: T0607700362
Action Type: RESPONSE
Date: 06/07/1993
Action: Correspondence

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 11/07/1995
Action: Closure/No Further Action Letter

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 10/18/1993
Action: Staff Letter - #10/18/1993

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 02/06/1990
Action: Unauthorized Release Form - #2/6/1990

Global Id: T0607700362
Action Type: ENFORCEMENT

LODI READY MIX (Continued) **S105033906**

Date: 06/21/1995
Action: Staff Letter - #6/21/1995

Global Id: T0607700362
Action Type: ENFORCEMENT
Date: 11/07/1995
Action: Staff Letter - #11/7/1995

Global Id: T0607700362
Action Type: Other
Date: 01/29/1989
Action: Leak Discovery

LUST:
Global Id: T0607700362
Status: Open - Case Begin Date
Status Date: 01/29/1989

Global Id: T0607700362
Status: Open - Site Assessment
Status Date: 02/06/1990

Global Id: T0607700362
Status: Completed - Case Closed
Status Date: 11/07/1995

LUST REG 5:
Name: LODI READY MIX
Address: 851 LODI AVE E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390467
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: LODI READY MIX
Address: 851 LODI AVE E
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700362
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported

LODI READY MIX (Continued) **S105033906**

Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	LODI READY MIX
Address:	851 LODI AVE E
City,State,Zip:	LODI, CA 95240
Site ID:	190943
CERS ID:	T0607700362
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

41
ESE
1/8-1/4
0.208 mi.
1097 ft.

PACIFIC COAST PRODUCERS (GUILD) **CERS HAZ WASTE** **S121774863**
650 S GUILD **CERS** **N/A**
LODI, CA 95240

Relative:
Higher

Actual:
62 ft.

CERS HAZ WASTE:

Name:	PACIFIC COAST PRODUCERS (GUILD)
Address:	650 S GUILD
City,State,Zip:	LODI, CA 95240
Site ID:	398885
CERS ID:	10184465
CERS Description:	Hazardous Waste Generator

CERS:

Name:	PACIFIC COAST PRODUCERS (GUILD)
Address:	650 S GUILD
City,State,Zip:	LODI, CA 95240
Site ID:	398885
CERS ID:	10184465
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	09-21-2020
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

	Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/26/2020. OBSERVATION: This facility is processing universal waste aerosol cans without submitting a complete notification or amended notification to the San Joaquin County Environmental Health Department (EHD). REGULATION GUIDANCE: (j) (1) A universal waste handler that processes universal waste aerosol cans shall, no later than the date on which the handler first initiates this activity, submit a notification to the San Joaquin County Environmental Health Department by certified mail or in person. (2) Each notification submitted pursuant to this subdivision shall be completed, dated, and signed according to the requirements of Section 66270.11 of Title 22 of the California Code of Regulations, and shall include, but not be limited to, all of the following information: (A) The name, identification number, site address, mailing address, and telephone number of the handler. (B) A description of the universal waste aerosol can processing activities, including the type and estimated
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	09-21-2020
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes:	Returned to compliance on 09/21/2020. OBSERVATIONS: Observed an oily absorbent paper in the trash bin near the forklift maintenance area. REGULATION GUIDANCE: Any person who generates a waste shall determine if the waste is a hazardous waste as specified in Title 22 California Code of Regulations (CCR). There are wastes that are listed as hazardous wastes. There are wastes that exhibit one or more of the hazardous waste characteristics: toxic, corrosive, reactive or ignitable. CORRECTIVE ACTION: The violation was corrected during the inspection by facility personnel. The oily paper was put in the 55-gal Non-RCRA Hazardous Waste oily solids drum. No further action is required to correct this violation.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	09-21-2020
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/26/2020. OBSERVATION: The facility is processing universal waste aerosol cans without developing and implementing a written operating procedure detailing the safe processing of universal waste aerosol cans. The aerosol puncturing unit is located in the forklift maintenance area. REGULATION GUIDANCE:

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

(4) The handler ensures that the processing operations are performed safely by developing and implementing a written operating procedure detailing the safe processing of universal waste aerosol cans. This procedure shall, at a minimum, include all of the following: (A) The type of equipment to be used to process the universal waste aerosol cans safely. (B) Operation and maintenance of the unit. (C) Segregation of incompatible wastes. (D) Proper waste management practices, including ensuring that flammable wastes are stored away from heat and open flames. (E) Waste characterization. CORRECTIVE ACTION: Develop and implement a written operating procedure describing the safe proce

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 01/27/2021. OBSERVATION: The following hazardous waste containers were found on-site with an accumulation start date of greater than 180 days: - one 55-gallon drum containing used absorbent and oily paper with accumulation start date 03-10-20 - one 55-gallon drum containing hazardous waste used oil filters with accumulation start date 03-10-20 - one 55-gallon drum containing waste paint ink with accumulation start date 03-10-20 REGULATION GUIDANCE: (a) Except as provided in subsections (c) and (d) of this section and section 66262.35, a generator may accumulate hazardous waste on-site for 90 days or less without a permit or grant of interim status, provided that: (b) The beginning of the 90 day period specified in subsections (a) and (c) of this section is determined as follows: (1) if the generator does not generate more than 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste (listed in section 66261.33(e)) or one kilogram of extremely hazardous waste duri

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Description: Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Violation Notes:	Returned to compliance on 10/26/2020. OBSERVATION: In hazardous materials storage room, observed a fire extinguisher with gauge pointing to recharge . REGULATION GUIDANCE: All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. CORRECTIVE ACTION: Bring the fire extinguisher into proper working order by repair, replacement or testing. Provide a corrective action statement to the San Joaquin County Environmental Health Department within 30 days.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	10-19-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 11/15/2016. The emergency response procedures were not uploaded to the CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	398885
Site Name:	PACIFIC COAST PRODUCERS (GUILD)
Violation Date:	10-19-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 11/15/2016. A training program was not uploaded to CERS website . Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Violation Date: 09-21-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/21/2020. OBSERVATION: A hazardous waste container was observed on-site with incomplete labeling. The container was: - one 55-gallon drum containing used oil located in the hazardous material storage room was missing the hazardous property. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: The violation was corrected during the inspection by Stephanie Fogle. Stephanie marked the hazardous property to the label. No further action is required to correct this violation.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection. A complete report was finished on October 6, 2020 and replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report. Waste Streams Observed: used oil, used antifreeze, oily solids (used absorbent, oily paper), used oil filters, hazardous waste liquid drained from punctured aerosol cans, waste paint ink Documents Provided: Schedule of Free CUPA Classes, Aerosol Can Processing Notification form, Health and Safety Code 25201.16 (a) Requirements for Notification of Aerosol Can Treatment, DTSC Aerosol Can Waste Treatment Fact Sheet, Return to Compliance Certification form Amount of HW Generated in Last Calendar Year (Jan-Dec) in Tons: 1.10
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 11/18/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 398885
Site Name: PACIFIC COAST PRODUCERS (GUILD)
Site Address: 650 S GUILD
Site City: LODI
Site Zip: 95240
Enf Action Date: 10-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Hiatt
Entity Title: Not reported
Affiliation Address: 631 N. Cluff Ave.
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Legal Owner
Entity Name: COOPERATIVE OF FARMERS
Entity Title: Not reported
Affiliation Address: 650 S. Guild Avenue
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Affiliation Phone: (209) 365-5429,

Affiliation Type Desc: Parent Corporation
Entity Name: PACIFIC COAST PRODUCERS (GUILD)
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Stephanie Fogle
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Stephanie Fogle
Entity Title: EHS Supervisor (Guild)
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Pacific Coast Producers
Entity Title: Not reported
Affiliation Address: 650 S. Guild Avenue
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 367-6200,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 650 S. Guild Avenue
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Pacific Coast Producers
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

PACIFIC COAST PRODUCERS (GUILD) (Continued) **S121774863**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 365-5423,

I42 **CEPHEID - BUILDING 3** **UST** **U004351161**
WSW **850 THURMAN ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.210 mi.
1109 ft. **Site 1 of 3 in cluster I**

Relative: UST:
Lower
Name: CEPHEID - BUILDING 3
Actual: Address: 850 THURMAN ST
54 ft. City,State,Zip: LODI, CA 95240
Facility ID: Not reported
Permitting Agency: San Joaquin County Environmental Health
CERSID: 10186811
Latitude: 38.12804
Longitude: -121.25528

I43 **CEPHEID - BUILDING 3** **CERS HAZ WASTE** **S121771075**
WSW **850 THURMAN ST** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.210 mi.
1109 ft. **Site 2 of 3 in cluster I**

Relative: CERS HAZ WASTE:
Lower
Name: CEPHEID - BUILDING 3
Actual: Address: 850 THURMAN ST
54 ft. City,State,Zip: LODI, CA 95240
Site ID: 385422
CERS ID: 10186811
CERS Description: Hazardous Waste Generator

CERS:
Name: CEPHEID - BUILDING 3
Address: 850 THURMAN ST
City,State,Zip: LODI, CA 95240
Site ID: 385422
CERS ID: 10186811
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 385422
Site Name: Cepheid - Building 3
Violation Date: 09-25-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/29/2018. 220 gallons of acetone and 110 gallons waste paint were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be

CEPHEID - BUILDING 3 (Continued) **S121771075**

	reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	08-06-2015
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 09/24/2015. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	08-06-2015
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 09/24/2015. The Business Owner/Operator Identification form was not updated in 30 days when Andrea Orth left the company. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	08-06-2015
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/24/2015. Training records not available for inspection . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three

CEPHEID - BUILDING 3 (Continued) **S121771075**

	years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	08-06-2015
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 09/24/2015. During the inspection, it was found that the secondary emergency contact is no longer with the company, contact numbers are no longer in operation and the updated information has not been submitted. Within 30 days of one the following events, business shall electronically update the information submitted to the California Environmental Reporting System (CERS): - A 100 percent or more increase in the quantity of a previously disclosed material. - Any handling of a previously undisclosed hazardous materials - A change of business address, business ownership, or business name. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	09-25-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/29/2018. Annual safety training records not available or inspection . Training records stored off site at another facility. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	08-06-2015

CEPHEID - BUILDING 3 (Continued) **S121771075**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/09/2015. The Hazardous Materials Inventory forms for propane were incorrect. Please change max daily amount from 250 to 400 gallons . Please change anti-skid from 80 gallons max to 180 gallons max. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	385422
Site Name:	Cepheid - Building 3
Violation Date:	09-25-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 12/26/2018. A site map is missing NORTH, ADJACENT STREETS, INTERNAL ROADS, LOADING AREA, EMERGENCY RESPONSE EQUIPMENT (LIKE FIRE EXTINGUISHERS AND SPILL KITS), EMERGENCY SHUT OFFS. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	07-10-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting

CEPHEID - BUILDING 3 (Continued) **S121771075**

paperwork, by 9/5/2015 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-25-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 10/25/2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 385422
Site Name: Cepheid - Building 3
Site Address: 850 THURMAN ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 08-06-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Parent Corporation
Entity Name: Cepheid Lodi, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

CEPHEID - BUILDING 3 (Continued) **S121771075**

Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Divya Narasimhan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Lana Karpuk
Entity Title:	Not reported
Affiliation Address:	225 N Guild Avenue
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	850 E Thurman Street
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Divya Narasimhan
Entity Title:	Engineer/ Yorke Engineering, LLC
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	225 N Guild Avenue
Affiliation City:	Lodi
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95240
Affiliation Phone:	(209) 334-5283,
Affiliation Type Desc:	Operator
Entity Name:	Cepheid
Entity Title:	Not reported
Affiliation Address:	Not reported

CEPHEID - BUILDING 3 (Continued) **S121771075**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (408) 541-4191,

I44 **ARMOR STRUXX LLC** **UST** **U004351019**
WSW **850 THURMAN ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.210 mi.
1109 ft. **Site 3 of 3 in cluster I**

Relative: UST:
Lower
Name: ARMOR STRUXX LLC
Actual: Address: 850 THURMAN ST
54 ft. City,State,Zip: LODI, CA 95240
Facility ID: Not reported
Permitting Agency: San Joaquin County Environmental Health
CERSID: Not reported
Latitude: 38.12804
Longitude: -121.25528

J45 **LODI LUMBER CO (CLOSED-CO)** **RGA LUST** **S114644792**
SSW **1025 INDUSTRIAL WAY** **N/A**
1/8-1/4 **LODI, CA**
0.213 mi.
1125 ft. **Site 1 of 10 in cluster J**

Relative: RGA LUST:
Lower
Name: LODI LUMBER CO (CLOSED-CO)
Actual: Address: 1025 INDUSTRIAL WAY
57 ft. City: LODI
State: LODI
1993 LODI LUMBER CO (CLOSED-CO) 1025 INDUSTRIAL WAY

J46 **LODI LUMBER COMPANY** **UST** **U004260643**
SSW **1025 INDUSTRIAL WAY** **N/A**
1/8-1/4 **LODI, CA 95240**
0.213 mi.
1125 ft. **Site 2 of 10 in cluster J**

Relative: UST SAN JOAQUIN:
Lower
Name: LODI LUMBER COMPANY
Actual: Address: 1025 INDUSTRIAL WAY
57 ft. City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0005443
Mail Address: PO BOX 401
Mail Address 2: Not reported
Mail Care of: LODI LUMBER COMPANY
Mail City,St,Zip: LODI, CA 95240

Tank Rec ID: Not reported
Tank Number: 1

LODI LUMBER COMPANY (Continued) **U004260643**

Tank Status: 02 - Inactive, non-billable
Tank Capacity: 2000
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: Not reported
Longitude: Not reported

Tank Rec ID: Not reported
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 2000
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: Not reported
Longitude: Not reported

J47 **LODI LUMBER CO** **RGA LUST** **S114644793**
SSW **1025 INDUSTRIAL WAY** **N/A**
1/8-1/4 **LODI, CA**
0.213 mi.
1125 ft. **Site 3 of 10 in cluster J**

Relative: RGA LUST:
Lower
Name: LODI LUMBER CO
Actual: Address: 1025 INDUSTRIAL WAY
57 ft. City: LODI
State: LODI
2012 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2011 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2010 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO

LODI LUMBER CO (Continued) **S114644793**

Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2009 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2008 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2007 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2006 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2005 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2003 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2002 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2001 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
2000 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
1998 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
1997 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI

LODI LUMBER CO (Continued) **S114644793**

State: LODI
1996 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
1995 LODI LUMBER CO 1025 INDUSTRIAL WAY
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
State: LODI
1994 LODI LUMBER CO 1025 INDUSTRIAL WAY

J48 **LODI LUMBER CO** **LUST** **U001604431**
SSW **1025 INDUSTRIAL** **HIST UST** **N/A**
1/8-1/4 **LODI, CA 95240** **HIST CORTESE**
0.213 mi.
1125 ft. **Site 4 of 10 in cluster J**

Relative:
Lower

Actual:
57 ft.

LUST:
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700396
Global Id: T0607700396
Latitude: 38.1254192
Longitude: -121.252358
Status: Completed - Case Closed
Status Date: 12/28/1989
Case Worker: Not reported
RB Case Number: 390508
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1339
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700396
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700396
Action Type: Other
Date: 01/02/1985
Action: Leak Reported

Global Id: T0607700396
Action Type: ENFORCEMENT

LODI LUMBER CO (Continued) **U001604431**

Date: 12/28/1989
Action: Staff Letter - #12/28/1989

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 03/13/1990
Action: Staff Letter - #3/13/1990

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 02/01/1990
Action: Staff Letter - #2/1/1990

Global Id: T0607700396
Action Type: ENFORCEMENT
Date: 07/29/1991
Action: Other Report - #7/29/1991

LUST:
Global Id: T0607700396
Status: Completed - Case Closed
Status Date: 12/28/1989

Global Id: T0607700396
Status: Open - Case Begin Date
Status Date: 12/28/1989

HIST UST:
Name: LODI LUMBER COMPANY INC
Address: 1025 INDUSTRIAL WAY
City,State,Zip: LODI, CA 95240
File Number: 0002FEAE
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FEAE.pdf
Region: STATE
Facility ID: 00000066093
Facility Type: Other
Other Type: LUMBER YARD
Contact Name: STANLEY FOSTER
Telephone: 2093344633
Owner Name: LODI LUMBER COMPANY, INC.
Owner Address: 1025 INDUSTRIAL WAY
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0002

Tank Num: 001
Container Num: WEST 2
Year Installed: 1979
Tank Capacity: 00002000
Tank Used for: WASTE
Type of Fuel: 4
Container Construction Thickness: X
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: EAST 1

LODI LUMBER CO (Continued) **U001604431**

Year Installed:	1979
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:

edr_fname:	LODI LUMBER CO
edr_fadd1:	1025 INDUSTRIAL
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390508

J49 **LODI LUMBER COMPANY** **SWEEPS UST** **S101625711**
SSW **1025 INDUSTRIAL WAY** **CA FID UST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.213 mi.
1125 ft. **Site 5 of 10 in cluster J**

Relative: **Lower**

Actual: **57 ft.**

SWEEPS UST:

Name:	LODI LUMBER COMPANY
Address:	1025 INDUSTRIAL WAY
City:	LODI
Status:	Not reported
Comp Number:	1339
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001339-000001
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	2

Name:	LODI LUMBER COMPANY
Address:	1025 INDUSTRIAL WAY
City:	LODI
Status:	Not reported
Comp Number:	1339
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001339-000002

LODI LUMBER COMPANY (Continued) **S101625711**

Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39003410
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093344633
Mail To: Not reported
Mailing Address: P O BOX 401
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

J50 **LODI LUMBER CO** **LUST** **S105036353**
SSW **1025 INDUSTRIAL WAY** **Cortese** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS**
0.213 mi.
1125 ft. **Site 6 of 10 in cluster J**

Relative:
Lower

Actual:
57 ft.

LUST REG 5:
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City: LODI
Region: 5
Status: Case Closed
Case Number: 390508
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: LODI LUMBER CO
Address: 1025 INDUSTRIAL WAY
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700396
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported

LODI LUMBER CO (Continued) **S105036353**

Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	LODI LUMBER CO
Address:	1025 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240
Site ID:	206139
CERS ID:	T0607700396
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

J51 **LODI LUMBER COMPANY** **RGA LUST** **S114644795**
SSW **1025 INDUSTRIAL WAY** **N/A**
1/8-1/4 **LODI, CA**
0.213 mi.
1125 ft. **Site 7 of 10 in cluster J**

Relative:
Lower

Actual:
57 ft.

RGA LUST:

Name:	LODI LUMBER COMPANY
Address:	1025 INDUSTRIAL WAY
City:	LODI
State:	LODI

1992 LODI LUMBER COMPANY 1025 INDUSTRIAL WAY

G52 **NOBUO KISHIDA** **HIST UST** **U001604463**
NW **177 KELLY ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.215 mi.
1133 ft. **Site 8 of 11 in cluster G**

Relative: **Lower**
Actual: **52 ft.**

HIST UST:

Name:	NOBUO KISHIDA
Address:	177 KELLY ST
City,State,Zip:	LODI, CA 95240
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000011269
Facility Type:	Other
Other Type:	TRUCKING
Contact Name:	OWNER
Telephone:	2093343030
Owner Name:	NOBUO KISHIDA
Owner Address:	1101 EDGEWOOD DR.
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1976
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	10
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	1
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor, Pressure Test

G53 **NOBUO KISHIDA** **SWEEPS UST** **S101625723**
NW **177 KELLY ST** **CA FID UST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.215 mi.
1133 ft. **Site 9 of 11 in cluster G**

Relative: **Lower**
Actual: **52 ft.**

SWEEPS UST:

Name:	NOBUO KISHIDA
Address:	177 KELLY ST
City:	LODI
Status:	Not reported
Comp Number:	1340
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001340-000001

NOBUO KISHIDA (Continued) **S101625723**

Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 2

Name: NOBUO KISHIDA
Address: 177 KELLY ST
City: LODI
Status: Not reported
Comp Number: 1340
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001340-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39002841
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093343030
Mail To: Not reported
Mailing Address: 1127 RIVERGATE DR
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

G54 **R&R MCCULLOUGH MOBILE REPAIR** **UST** **U004273703**
NW **177 KELLY ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.215 mi.
1133 ft. **Site 10 of 11 in cluster G**

Relative: UST SAN JOAQUIN:
Lower Name: R&R MCCULLOUGH MOBILE REPAIR
Address: 177 KELLY ST
Actual: City,State,Zip: LODI, CA 95240
52 ft.

R&R MCCULLOUGH MOBILE REPAIR (Continued) **U004273703**

Region: SJ
Facility Id: FA0005377
Mail Address: 177 S KELLY ST
Mail Address 2: Not reported
Mail Care of: RONDA MCCULLOUGH
Mail City,St,Zip: LODI, CA 95240

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 10000
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181813
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1325004802
Longitude: -121.2550548135

Tank Rec ID: Not reported
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 1000
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181813
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1325004802
Longitude: -121.2550548135

G55 **R&R MCCULLOUGH MOBILE REPAIR** **CERS HAZ WASTE** **S121768260**
NW **177 KELLY ST** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.215 mi.
1133 ft. **Site 11 of 11 in cluster G**

Relative: CERS HAZ WASTE:
Lower
Name: R&R MCCULLOUGH MOBILE REPAIR
Actual: Address: 177 KELLY ST
52 ft. City,State,Zip: LODI, CA 95240
Site ID: 368103
CERS ID: 10181813
CERS Description: Hazardous Waste Generator

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

CERS:
Name: R&R MCCULLOUGH MOBILE REPAIR
Address: 177 KELLY ST
City,State,Zip: LODI, CA 95240
Site ID: 368103
CERS ID: 10181813
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 368103
Site Name: R&R MCCULLOUGH MOBILE REPAIR
Violation Date: 06-29-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 07/21/2016. The emergency response procedures were not uploaded to CERS website. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 368103
Site Name: R&R MCCULLOUGH MOBILE REPAIR
Violation Date: 06-29-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/21/2016. 500 gallons of waste oil, 55 gallons of hydraulic oil, 55 gallons of waste antifreeze, 110 gallons of new antifreeze, 560 cubic feet of argon, 432 cubic feet of acetylene, 560 cubic feet of oxygen were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 368103
Site Name: R&R MCCULLOUGH MOBILE REPAIR
Violation Date: 06-29-2016

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/21/2016. The Business Owner/Operator Identification form was not submitted. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	06-29-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 07/21/2016. Training records not available for inspection. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	06-29-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/21/2016. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	06-29-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/21/2016. A Hazardous Materials Business Plan has not been established or implemented. A Hazardous Materials Business Plan shall be established and implemented for emergency response to a release or threatened release of a hazardous material when storing hazardous materials at or above the thresholds quantities of 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gas, at standard temperature and pressure. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	07-25-2016
Citation:	40 CFR 1 262.34(d)(5)(i) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(i)
Violation Description:	Failure to have at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures.
Violation Notes:	Returned to compliance on 07/25/2016. An emergency coordinator is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	06-29-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 07/21/2016. Annual training plan not uploaded to CERS website . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

	or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	07-25-2016
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 07/25/2016.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	07-25-2016
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Returned to compliance on 07/25/2016. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Violation Date:	07-25-2016
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 07/25/2016. Drained used oil filters not managed properly: - A black 55 gallon drum of drained used oil filters

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

in the hazardous waste storage area did not have a lid. This was corrected on site. - A white 55 gallon drum of drained used oil filters in the hazardous waste storage area did not have a label. This was corrected on site. Used oil filters shall be drained of free-flowing oil, stored in a closed, rainproof container, labeled as drained used oil filters, and marked with an accumulation start date. Immediately label the drained used oil filters and ensure that all used oil filters are managed in this way.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 368103
Site Name: R&R MCCULLOUGH MOBILE REPAIR
Violation Date: 07-25-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/25/2016. Containers of hazardous waste not properly labeled: - A black 55 gallon drum of used antifreeze in the waste storage area had the incorrect start accumulation date and no hazardous property. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-29-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 7/29/2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2016
Violations Found: Yes
Eval Type: Routine done by local agency

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by August 24, 2016. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. NOTES: - The facility generates used oil, used antifreeze, used absorbent and drained used oil filters - Provided hazardous waste label and labeling information - Provided SJCEHD CUPA class schedule - Provided Return to Compliance Certification form
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Site Address:	177 KELLY ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	06-29-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	368103
Site Name:	R&R MCCULLOUGH MOBILE REPAIR
Site Address:	177 KELLY ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	07-25-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	368103
Facility Name:	R&R MCCULLOUGH MOBILE REPAIR
Env Int Type Code:	HMBP
Program ID:	10181813
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.132500
Longitude:	-121.255580

Affiliation:

Affiliation Type Desc:	Document Preparer

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

Entity Name: RONDA MCCULLOUGH
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Identification Signer
Entity Name: RONDA MCCULLOUGH
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: MCCULLOUGH, RANDY
Entity Title: Not reported
Affiliation Address: 177 S KELLY ST
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95240
Affiliation Phone: (209) 334-4305,

Affiliation Type Desc: Operator
Entity Name: RONDA MCCULLOUGH
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 334-4305,

Affiliation Type Desc: Environmental Contact
Entity Name: RANDALL MCCULLOUGH
Entity Title: Not reported
Affiliation Address: 177 kELLY sT
Affiliation City: lODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95240

R&R MCCULLOUGH MOBILE REPAIR (Continued) **S121768260**

Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	177 S KELLY ST
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95240
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	R&R MCCULLOUGH MOBILE REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

K56 **WESTERN RADIATOR SVC OF LODI** **CERS HAZ WASTE** **S121793028**
North **12 S CLUFF AVE** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.220 mi.
1159 ft. **Site 1 of 10 in cluster K**

Relative:
Lower

Actual:
57 ft.

CERS HAZ WASTE:

Name:	WESTERN RADIATOR SVC OF LODI
Address:	12 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Site ID:	85609
CERS ID:	10183503
CERS Description:	Hazardous Waste Generator

CERS:

Name:	WESTERN RADIATOR SVC OF LODI
Address:	12 S CLUFF AVE
City,State,Zip:	LODI, CA 95240
Site ID:	85609
CERS ID:	10183503
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	85609
Site Name:	WESTERN RADIATOR SVC OF LODI
Violation Date:	01-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 03/06/2017. The site map is missing the Evacuation Meeting Area. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 85609
Site Name: WESTERN RADIATOR SVC OF LODI
Violation Date: 01-31-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 03/06/2017. The emergency response procedures were not uploaded on CERS website . A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 85609
Site Name: WESTERN RADIATOR SVC OF LODI
Violation Date: 01-31-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 04/03/2017. Please train all employees on safety procedures and hazardous materials handling . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 85609
Site Name: WESTERN RADIATOR SVC OF LODI
Violation Date: 01-31-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 03/06/2017. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	85609
Site Name:	WESTERN RADIATOR SVC OF LODI
Violation Date:	01-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 03/06/2017. A training program was not uploaded to CERS website . Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	85609
Site Name:	WESTERN RADIATOR SVC OF LODI
Violation Date:	02-09-2016
Citation:	40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description:	Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes:	Returned to compliance on 07/24/2018. The western 55 gallon drum of hazardous waste sludge had a lid with two holes in it and an accumulation start date of 7-1-15. This waste has been on site longer than 180 days. Hazardous waste shall be stored in a container that is in good condition. Immediately transfer all hazardous wastes into containers that are in good condition and have hazardous wastes properly disposed of by a licensed hazardous waste hauler under a proper manifest. Submit a copy of the disposal receipt to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	85609

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

Site Name:	WESTERN RADIATOR SVC OF LODI
Violation Date:	02-09-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/18/2018. The western 55 gallon drum of hazardous waste sludge had a lid with two holes in it and an accumulation start date of 7-1-15. This waste has been on site longer than 180 days. This drum did not have one of the hazardous properties of flammable, toxic, corrosive, or reactivity marked. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date During the inspection, the manager marked the hazardous properties of toxic and corrosive. Continue to ensure that all containers are marked with all the required information. Since this container have been on site longer than 180 days, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD. The eastern 55 gallon drum of hazardous waste sludge lacked the [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	85609
Site Name:	WESTERN RADIATOR SVC OF LODI
Violation Date:	02-09-2016
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 07/18/2018. The western 55 gallon drum of hazardous waste sludge had a lid with two holes in it and an accumulation start date of 7-1-15. This waste has been on site longer than 180 days. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3-8-16 . Please be aware as of January 1, 2013, all businesses are

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/2/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 85609
Site Name: WESTERN RADIATOR SVC OF LODI
Site Address: 12 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 01-31-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 85609
Site Name: WESTERN RADIATOR SVC OF LODI
Site Address: 12 S CLUFF AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 02-09-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	85609
Facility Name:	WESTERN RADIATOR SVC OF LODI
Env Int Type Code:	HWG
Program ID:	10183503
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.133760
Longitude:	-121.252440

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,

Affiliation Type Desc:	Legal Owner
Entity Name:	TERALT INC
Entity Title:	Not reported
Affiliation Address:	1780 E ROOSEVELT ST
Affiliation City:	STOCKTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95205
Affiliation Phone:	(209) 466-2733,

Affiliation Type Desc:	Operator
Entity Name:	Al Tassano
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 466-2733,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Al Tassano
Entity Title:	Not reported
Affiliation Address:	1780 E. Roosevelt St.
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205
Affiliation Phone:	,

WESTERN RADIATOR SVC OF LODI (Continued) **S121793028**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1780 E ROOSEVELT ST
Affiliation City:	STOCKTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	WESTERN RADIATOR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

J57 **HONDAS PLUS** **RCRA-SQG 1000184928**
South **922 #K INDUSTRIAL WAY** **FINDS CAD982474686**
1/8-1/4 **LODI, CA 95240** **ECHO**
0.222 mi.
1170 ft. **Site 8 of 10 in cluster J**

Relative: RCRA-SQG:
Lower

Date Form Received by Agency:		19880615
Actual: Handler Name:	HONDAS PLUS	
57 ft. Handler Address:		922 #K INDUSTRIAL WAY
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD982474686
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		922 #K INDUSTRIAL WAY
Contact City,State,Zip:		LODI, CA 95240
Contact Telephone:		209-339-1292
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		1
Mailing Address:		#K INDUSTRIAL WAY
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:		GRODMAN GREGORY
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

HONDAS PLUS (Continued) **1000184928**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GRODMAN GREGORY

HONDAS PLUS (Continued) **1000184928**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19880615
Handler Name: HONDAS PLUS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110002822072

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

HONDAS PLUS (Continued) **1000184928**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000184928
Registry ID:	110002822072
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002822072
Name:	HONDAS PLUS
Address:	922 #K INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240

H58 **KNIFE RIVER LODI PLANT** **CERS HAZ WASTE** **S121780330**
WNW **851 E LODI AVE** **CERS** **N/A**
1/8-1/4 **LODI, CA 95240**
0.229 mi.
1207 ft. **Site 4 of 8 in cluster H**

Relative: **Lower**

Actual: **52 ft.**

CERS HAZ WASTE:

Name:	KNIFE RIVER LODI PLANT
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Site ID:	41957
CERS ID:	10183987
CERS Description:	Hazardous Waste Generator

CERS:

Name:	KNIFE RIVER LODI PLANT
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Site ID:	41957
CERS ID:	10183987
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	07-26-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/03/2018. A site map is missing evacuation staging area, and key to show symbols. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

KNIFE RIVER LODI PLANT (Continued) **S121780330**

Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 04/09/2015. A black cut open drum of used oil in the facility shop was left open. The container was marked with the words used oil but lacked the other required hazardous waste label information. At the east wall of the facility shop is an open metal container of used oil that was left on the shelf on top of the box of aerosols. This container was not marked with any of the required hazardous waste label information. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste. . All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all containers are marked with all the required [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes:	Returned to compliance on 04/09/2015. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the

KNIFE RIVER LODI PLANT (Continued) **S121780330**

	possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes:	Returned to compliance on 04/09/2015. Wet dark oil stains were found on the facility shop floor next to the north east wall of the shop. Oil was spilled near the outside storage rack just north of the east bay roll up door of the facility shop. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean up the spilled oil and oily debris next to the outside storage rack, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	Returned to compliance on 04/09/2015. A black cut open drum of used oil in the facility shop was left open. At the east wall of the facility shop is an open metal container of used oil that was left on the shelf on top of the box of aerosols. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description:	Failure to report program data electronically.
Violation Notes:	Returned to compliance on 04/09/2015. A submission to the California Electronic Reporting System (CERS) for the hazardous waste program has not been made. Beginning January 1, 2013, all businesses are required to submit all new (or any changes to existing) hazardous waste information online to the CERS at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT

KNIFE RIVER LODI PLANT (Continued) **S121780330**

Violation Date:	06-10-2015
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 06/11/2015. During the inspection, it was found that Bob Lyberger, General Manager, is no longer the primary emergency contact for this facility and the updated information has not been submitted. Within 30 days of one the following events, business shall electronically updatethe information submitted to the California Environmental Reporting System (CERS): - A 100 percent or more increase in the quantity of a previously disclosed material. - Any handling of a previously undisclosed hazardous materials - A change of business address, business ownership, or business name. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	03-25-2015
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes:	Returned to compliance on 04/09/2015. Metal fines generated from facility shop are being recycled as scrap metal without first determining particle size or hazardous properties. Any person who generates a waste shall determine if the waste is a hazardous waste. Immediately stop recycling metal fines, make a hazardous waste determination for the metal fines from the facility shop, and manage it according to Title 22 hazardous waste regulations. Particles 100 microns or smaller must be handled as hazardous waste if the metal is determined to be a hazardous waste. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	41957
Site Name:	KNIFE RIVER LODI PLANT
Violation Date:	07-26-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 08/03/2018. The emergency response procedures were missing San Joaquin County EHD CUPA number 209-468-3420. A business plan shall include the following emergency

KNIFE RIVER LODI PLANT (Continued) **S121780330**

response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-25-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 4-25-15. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-26-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/25/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 7/10/2015 Please be aware as of January 1, 2013, all

KNIFE RIVER LODI PLANT (Continued) **S121780330**

businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 41957
Site Name: KNIFE RIVER LODI PLANT
Site Address: 851 E LODI AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-25-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 41957
Site Name: KNIFE RIVER LODI PLANT
Site Address: 851 E LODI AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 06-10-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 41957
Site Name: KNIFE RIVER LODI PLANT
Site Address: 851 E LODI AVE
Site City: LODI
Site Zip: 95240
Enf Action Date: 07-26-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 41957
Facility Name: KNIFE RIVER LODI PLANT
Env Int Type Code: HWG
Program ID: 10183987
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,

KNIFE RIVER LODI PLANT (Continued) **S121780330**

Latitude: 38.131810
Longitude: -121.256450

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Operator
Entity Name: Concrete Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 933-6980,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO BOX 66001
Affiliation City: STOCKTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95206
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: CONCRETE INC
Entity Title: Not reported
Affiliation Address: PO BOX 66001
Affiliation City: STOCKTON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95206
Affiliation Phone: (209) 933-6980,

Affiliation Type Desc: Parent Corporation
Entity Name: KNIFE RIVER LODI PLANT
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Michael Brentt
Entity Title: Not reported

KNIFE RIVER LODI PLANT (Continued) **S121780330**

Affiliation Address: P.O. Box 66001
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95206
Affiliation Phone: ,

H59 **LODI READY MIX & BUILDING MATE** **HIST UST** **U001604437**
WNW **851 E LODI AVE** **HIST CORTESE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.229 mi.
1207 ft. **Site 5 of 8 in cluster H**

Relative:
Lower

Actual:
52 ft.

HIST UST:
Name: LODI READY MIX & BUILDING MATE
Address: 851 E LODI AVE
City,State,Zip: LODI, CA 95240
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000019741
Facility Type: Other
Other Type: READY MIX
Contact Name: Not reported
Telephone: 2093682794
Owner Name: E.F.MITCHLER CO
Owner Address: 400 S LINCOLN ST
Owner City,St,Zip: STOCKTON, CA 95203
Total Tanks: 0002

Tank Num: 001
Container Num: 3
Year Installed: 1962
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 10
Leak Detection: Visual

Tank Num: 002
Container Num: 4
Year Installed: 1962
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 10
Leak Detection: Visual

HIST CORTESE:
edr_fname: LODI READY MIX
edr_fadd1: 851 LODI
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390467

H60 **LODI READY MIX** **RGA LUST** **S114644800**
WNW **851 EAST LODI AVENUE** **N/A**
1/8-1/4 **LODI, CA**
0.229 mi.
1207 ft. **Site 6 of 8 in cluster H**

Relative: **Lower**

Actual: **52 ft.**

RGA LUST:
Name: LODI READY MIX
Address: 851 EAST LODI AVENUE
City: LODI
State: LODI
1992 LODI READY MIX 851 EAST LODI AVENUE

H61 **LODI READY MIX & BLDG MATERIAL** **UST** **U004260644**
WNW **851 E LODI AVE** **N/A**
1/8-1/4 **LODI, CA 95240**
0.229 mi.
1207 ft. **Site 7 of 8 in cluster H**

Relative: **Lower**

Actual: **52 ft.**

UST SAN JOAQUIN:

Name:	LODI READY MIX & BLDG MATERIAL
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0005447
Mail Address:	400 S LINCOLN ST
Mail Address 2:	Not reported
Mail Care of:	E F MITCHLER CO
Mail City,St,Zip:	STOCKTON, CA 95203
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	1000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Tank Rec ID:	Not reported
Tank Number:	2
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	1000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported

LODI READY MIX & BLDG MATERIAL (Continued) **U004260644**

LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

H62 **LODI READY MIX & BLDG MATERIAL** **SWEEPS UST** **S101625714**
WNW **851 E LODI AVE** **HIST UST** **N/A**
1/8-1/4 **LODI, CA 95240** **CA FID UST**
0.229 mi. **EMI**
1207 ft. **Site 8 of 8 in cluster H** **WDS**
CERS

Relative:
Lower

Actual:
52 ft.

SWEEPS UST:

Name:	LODI READY MIX & BLDG MATERIAL
Address:	851 E LODI AVE
City:	LODI
Status:	Not reported
Comp Number:	1359
Number:	Not reported
Board Of Equalization:	44-024664
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001359-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	2

Name:	LODI READY MIX & BLDG MATERIAL
Address:	851 E LODI AVE
City:	LODI
Status:	Not reported
Comp Number:	1359
Number:	Not reported
Board Of Equalization:	44-024664
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001359-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

HIST UST:

Name:	LODI READY MIX AND BUILDING MATE

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

Address:	851 EAST LODI AVENUE
City,State,Zip:	LODI, CA 95240
File Number:	0002FB90
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FB90.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39000351
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2093682794
Mail To:	Not reported
Mailing Address:	P O BOX 3
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95240
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

EMI:

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2008
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.516374288043478260
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.395064345

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2009
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.14026502717391301
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.129043825

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.32624011413043402
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.30014090500000001

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	495

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.13930890217
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.12816419

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2012
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.32277616304
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.29695407

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2013
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.1249012125
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.449960485

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2014

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.451334175
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.58053367

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.4230838125
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.169233525

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	Not reported
Reactive Organic Gases Tons/Yr:	Not reported
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	1.301563125
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.52062525

Name:	CONCRETE INC.

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	Not reported
Reactive Organic Gases Tons/Yr:	Not reported
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	2.281667715
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.912667086

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	Not reported
Reactive Organic Gases Tons/Yr:	Not reported
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	1.8986113575
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.759444543

Name:	CONCRETE INC.
Address:	851 E LODI AVE
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	495
Air District Name:	SJU
SIC Code:	3273
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	Not reported
Reactive Organic Gases Tons/Yr:	Not reported
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	2.14902174

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0.859608696

WDS:

Name:	LODI AVENUE PLANT
Address:	851 E Lodi Ave
City:	LODI
Facility ID:	5S 39I015522
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	2093336380
Facility Contact:	MATT ANDERSON
Agency Name:	CONCRETE INC
Agency Address:	PO BOX 66001
Agency City,St,Zip:	STOCKTON 95206
Agency Contact:	ROBERT LYBERGER
Agency Telephone:	2099336980
Agency Type:	Private
SIC Code:	3273
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	STORMS
Waste Type2:	Not reported
Waste2:	Stormwater Runoff
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or

LODI READY MIX & BLDG MATERIAL (Continued) **S101625714**

dischargers having waste storage systems with land disposal such as dairy waste ponds.

CERS:
Name: CONCRETE INC
Address: 851 E LODI AVE
City,State,Zip: LODI, CA 95240
Site ID: 461980
CERS ID: 110054193733
CERS Description: US EPA Air Emission Inventory System (EIS)

K63 **PRIMA-CAST & MFG INC** **SWEEPS UST** **S101625727**
North **1220 E PINE ST** **HIST UST** **N/A**
1/8-1/4 **LODI, CA 95240** **CA FID UST**
0.235 mi.
1241 ft. **Site 2 of 10 in cluster K**

Relative:
Lower

Actual:
58 ft.

SWEEPS UST:
Name: PRIMA-CAST & MFG INC
Address: 1220 E PINE ST
City: LODI
Status: Not reported
Comp Number: 2012
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-002012-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

HIST UST:
Name: PRIMA-CAST AND MFG INC
Address: 1220 E PINE ST
City,State,Zip: LODI, CA 95240
File Number: 0002FB18
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FB18.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported

PRIMA-CAST & MFG INC (Continued) **S101625727**

Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	39003603
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1220 E PINE ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LODI 95240
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

K64 **PRIMA-CAST & MFG. INC.** **HIST UST** **U001604476**
North **1220 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.235 mi.
1241 ft. **Site 3 of 10 in cluster K**

Relative: **Lower**

Actual: **58 ft.**

HIST UST:

Name:	PRIMA-CAST & MFG. INC.
Address:	1220 E PINE ST
City,State,Zip:	LODI, CA 95240
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000050118
Facility Type:	Other
Other Type:	MANUFACTURER OF ALUM
Contact Name:	Not reported
Telephone:	2093697044
Owner Name:	DAGOBERT SCHMIDT
Owner Address:	1220 E. PINE ST.
Owner City,St,Zip:	LODI, CA 95240
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1980
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR

PRIMA-CAST & MFG. INC. (Continued) **U001604476**

Container Construction Thickness: 10
Leak Detection: Stock Inventor, Pressure Test

K65 **PRIMA-CAST & MFG INC** **UST** **U004260785**
North **1220 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.235 mi.
1241 ft. **Site 4 of 10 in cluster K**

Relative: **Lower**
Actual: **58 ft.**

UST SAN JOAQUIN:

Name:	PRIMA-CAST & MFG INC
Address:	1220 E PINE ST
City,State,Zip:	LODI, CA 95240
Region:	SJ
Facility Id:	FA0006151
Mail Address:	1220 E PINE ST
Mail Address 2:	Not reported
Mail Care of:	PRIMA-CAST & MFG INC
Mail City,St,Zip:	LODI, CA 95240
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	1000
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

J66 **MILLER PACKING CO** **CERS HAZ WASTE** **S121743455**
SSW **1122 INDUSTRIAL WAY** **NPDES** **N/A**
1/8-1/4 **LODI, CA 95241** **CERS**
0.236 mi.
1248 ft. **Site 9 of 10 in cluster J**

Relative: **Lower**
Actual: **57 ft.**

CERS HAZ WASTE:

Name:	MILLER PACKING CO
Address:	1122 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240
Site ID:	135325
CERS ID:	10184007
CERS Description:	Hazardous Waste Generator

NPDES:

Name:	MILLER PACKING CO
Address:	1122 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95241

MILLER PACKING CO (Continued) **S121743455**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39IN604863
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Undetermined
Status Date:	02/25/2019
Operator Name:	Miller Packing Co
Operator Address:	1122 Industrial Way
Operator City:	Lodi
Operator State:	California
Operator Zip:	95241

CERS:

Name:	MILLER PACKING CO
Address:	1122 INDUSTRIAL WAY
City,State,Zip:	LODI, CA 95240
Site ID:	135325
CERS ID:	10184007
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	135325
Site Name:	MILLER PACKING CO
Violation Date:	10-23-2019
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 11/19/2019. OBSERVATION: This facility generates drained used metal oil filters. A complete three year bill of lading record for used oil filter recycling was not observed during the inspection. Bills of lading from Valley Forklift from October 23, 2016 through October 23, 2019 were not available during the inspection. REGULATION GUIDANCE: Persons generating, transporting, or receiving used metal oil filters shall use a bill of lading to record the transfer of used oil filters. Bills of lading must indicate generator, transporter, and receiving company names, addresses, telephone numbers, the quantity and size of used oil filter containers transferred, and the date of transfer. A copy of each bill of lading must be kept on the premises of the generator, transporter, and receiving facility where the used oil filters were handled. Copies of bills of lading shall be kept for a period of three years. CORRECTIVE

MILLER PACKING CO (Continued) **S121743455**

ACTION: Immediately obtain all missing bill of lading recycling records that ca
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 135325
Site Name: MILLER PACKING CO
Violation Date: 02-15-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/15/2019. 300 sanitizer, 55 gallons degreaser, 55 gallons iodine, 300 gallons sanitizer, 110 gallons waste oil were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 22, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Schedule of Free CUPA classes, Return to Compliance Certification, Waste streams found: used oil Note: Facility's forklift is serviced onsite by Valley Forklift located at 3131 E. Fremont St.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection.5 Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/3/2016 Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses

MILLER PACKING CO (Continued) **S121743455**

Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-15-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/17/2019. Facility does not have internal roads and this element was not addressed on the site map. Please address this by either writing NA for not applicable or a statement that says the element is not on site. Please provide key for STMD, LA and NUMBERS Please correct this by the next submittal. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 135325
Facility Name: MILLER PACKING CO
Env Int Type Code: HWG
Program ID: 10184007
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 38.124860
Longitude: -121.253000

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Dianne Blankenship
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Staige DeBenedetti
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 366-7425,

Affiliation Type Desc: Parent Corporation

MILLER PACKING CO (Continued) **S121743455**

Entity Name: MILLER PACKING CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Environmental Contact
Entity Name: Staige DeBenedetti
Entity Title: Not reported
Affiliation Address: P O Box 1390
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95241
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Dianne Blankenship
Entity Title: V.P. Administration
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: VICTOR MEAT COMPANY
Entity Title: Not reported
Affiliation Address: PO BOX 1390
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95241
Affiliation Phone: (209) 339-2310,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO BOX 1390
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95241

MILLER PACKING CO (Continued) **S121743455**

Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Miller Packing Company
Entity Title: Not reported
Affiliation Address: P.O. Box 1390
Affiliation City: Lodi
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95241
Affiliation Phone: (209) 339-2310,

K67 **E F KLUDT & SONS, INC** **HIST UST** **U001604286**
NNW **1126 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.238 mi.
1255 ft. **Site 5 of 10 in cluster K**

Relative: HIST UST:
Lower
Name: E F KLUDT & SONS, INC
Actual: Address: 1126 E PINE ST
54 ft. City,State,Zip: LODI, CA 95240
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000049996
Facility Type: Other
Other Type: PETROLEUM JOBBER
Contact Name: STEPHEN C. KLUDT, SUPERVISOR
Telephone: 2093680634
Owner Name: ELMER F AND/OR IRENE L KLUDT
Owner Address: 10736 E KETTLEMAN LANE
Owner City,St,Zip: LODI, CA 95240
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: 1984
Tank Capacity: 00020000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 5/16
Leak Detection: Stock Inventor, Vapor Sniff Well

Tank Num: 002
Container Num: 2
Year Installed: 1984
Tank Capacity: 00020000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 5/16
Leak Detection: Stock Inventor, Vapor Sniff Well

Tank Num: 003
Container Num: 3
Year Installed: 1984
Tank Capacity: 00020000

E F KLUDT & SONS, INC (Continued) **U001604286**

Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor, Vapor Sniff Well
Tank Num:	004
Container Num:	4
Year Installed:	1984
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor, Vapor Sniff Well
Tank Num:	005
Container Num:	5
Year Installed:	1984
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor, Vapor Sniff Well

K68 **E F KLUDT AND SONS INC** **HIST UST** **S113020381**
NNW **1126 E PINE STREET** **HAZNET** **N/A**
1/8-1/4 **LODI, CA 95240** **HWTS**
0.238 mi.
1255 ft. **Site 6 of 10 in cluster K**

Relative: **Lower**

Actual: **54 ft.**

HIST UST:

Name:	E F KLUDT AND SONS INC
Address:	1126 E PINE STREET
City,State,Zip:	LODI, CA 95240
File Number:	0002FBD3
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FBD3.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

E F KLUDT AND SONS INC (Continued) **S113020381**

HAZNET:

Name:	SAN JOAQUIN CNTY DPW SOLID WASTE HHW
Address:	1126 E PINE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 952011810
Contact:	RICK KLUDT
Telephone:	2093680634
Mailing Name:	Not reported
Mailing Address:	PO BOX 1810
Year:	2019
Gepaid:	CAH111000959
TSD EPA ID:	CAD059494310
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15000
Year:	2019
Gepaid:	CAH111000959
TSD EPA ID:	CAL000282598
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.30000
Year:	2019
Gepaid:	CAH111000959
TSD EPA ID:	CAD059494310
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.67500
Year:	2019
Gepaid:	CAH111000959
TSD EPA ID:	ORQ000025197
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	2.67500
Year:	2018
Gepaid:	CAH111000959
TSD EPA ID:	ORQ000025197
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	5.00000
Year:	2018
Gepaid:	CAH111000959
TSD EPA ID:	CAD044429835
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15000

E F KLUDT AND SONS INC (Continued) **S113020381**

Year: 2018
Gepaid: CAH111000959
TSD EPA ID: CAL000282598
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.20000

Year: 2018
Gepaid: CAH111000959
TSD EPA ID: CAD059494310
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.47500

Year: 2017
Gepaid: CAH111000959
TSD EPA ID: AZR000003681
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1

Year: 2017
Gepaid: CAH111000959
TSD EPA ID: AZR000003681
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2007
Gen EPA ID: CAH111000959

Shipment Date: 20070723
Creation Date: 12/28/2007 18:31:37
Receipt Date: 20070801
Manifest ID: 000123517JJK
Trans EPA ID: CAR000047019
Trans Name: GEORGE W LOWRY INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAL000190816
Trans Name: RIVERBANK OIL TRANSFER
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.684

E F KLUDT AND SONS INC (Continued) **S113020381**

Waste Quantity:	180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAH111000959
Shipment Date:	20171129
Creation Date:	8/7/2018 18:30:40
Receipt Date:	20171222
Manifest ID:	006285548SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171129
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171208
Manifest ID:	006285546SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	ORQ000025197
Trans Name:	THERMO FLUIDS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

E F KLUDT AND SONS INC (Continued) **S113020381**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171101
Creation Date:	10/1/2018 18:30:14
Receipt Date:	20171116
Manifest ID:	006193464SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	ORQ000025197
Trans Name:	THERMO FLUIDS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171004
Creation Date:	6/20/2018 18:31:41
Receipt Date:	20171020
Manifest ID:	006192091SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171004
Creation Date:	10/11/2018 18:31:48
Receipt Date:	20171019
Manifest ID:	006192088SKS

E F KLUDT AND SONS INC (Continued) **S113020381**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	ORQ000025197
Trans Name:	THERMO FLUIDS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.375
Waste Quantity:	750
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171004
Creation Date:	5/30/2018 18:31:28
Receipt Date:	20171027
Manifest ID:	006192090SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170724
Creation Date:	10/8/2018 18:30:25
Receipt Date:	20170809
Manifest ID:	006136723SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	ORQ000025197
Trans Name:	THERMO FLUIDS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

E F KLUDT AND SONS INC (Continued) **S113020381**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170707
Creation Date:	9/28/2018 18:30:12
Receipt Date:	20170725
Manifest ID:	006100916SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	UTD991301748
Trans Name:	CLEAN HARBORS GRASSY MOUNTAIN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170707
Creation Date:	10/10/2018 18:30:31
Receipt Date:	20170714
Manifest ID:	006100917SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	ORQ000025197
Trans Name:	THERMO FLUIDS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

E F KLUDT AND SONS INC (Continued) **S113020381**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170707
Creation Date:	5/31/2018 18:30:42
Receipt Date:	20170728
Manifest ID:	006100919SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS OF WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	SAN JOAQUIN CNTY DPW SOLID WASTE HHW
Address:	1126 E PINE ST
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAH111000959
Inactive Date:	Not reported
Create Date:	02/22/2002
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 1810
Mailing Address 2:	Not reported
Mailing City,State,Zip:	STOCKTON, CA 952011810
Owner Name:	SAN JOAQUIN COUNTY
Owner Address:	PO BOX 1810
Owner Address 2:	Not reported
Owner City,State,Zip:	STOCKTON, CA 952011810
Contact Name:	RICK KLUDT
Contact Address:	1126 E PINE ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 952400000
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.133979
Longitude:	-121.251944

K69 **E F KLUDT & SONS INC** **AST** **S113152740**
NNW **1126 E PINE ST** **CERS HAZ WASTE** **N/A**
1/8-1/4 **LODI, CA 95240** **CERS TANKS**
0.238 mi. **HAZNET**
1255 ft. **Site 7 of 10 in cluster K** **CERS**
HWTS

Relative:
Lower

Actual:
54 ft.

AST:

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City/Zip:	LODI,95240
Certified Unified Program Agencies:	Not reported
Owner:	KLUDT,STEPHEN C & RICHARD A
Total Gallons:	Not reported
CERSID:	10181397
Facility ID:	Not reported
Business Name:	E F KLUDT & SONS INC
Phone:	(209) 368-0634
Fax:	Not reported
Mailing Address:	PO BOX 166
Mailing Address City:	LODI
Mailing Address State:	CA
Mailing Address Zip Code:	Not reported
Operator Name:	E.F. KLUDT & SONS, INC
Operator Phone:	209-368-0634
Owner Phone:	209-368-0634
Owner Mail Address:	PO BOX 166
Owner State:	CA
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	STEPHEN & RICHARD KLUDT
Property Owner Phone:	209-368-0634
Property Owner Mailing Address:	PO BOX 166
Property Owner City:	LODI
Property Owner Stat :	CA
Property Owner Zip Code:	Not reported
Property Owner Country:	United States
EPAID:	CAL000332948

CERS HAZ WASTE:

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Site ID:	391871
CERS ID:	10181397
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Site ID:	391871
CERS ID:	10181397
CERS Description:	Aboveground Petroleum Storage

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240

E F KLUDT & SONS INC (Continued) **S113152740**

Site ID: 391871
CERS ID: 10181397
CERS Description: Underground Storage Tank

HAZNET:
Name: E F KLUDT & SONS INC
Address: 1126 E PINE ST
Address 2: Not reported
City,State,Zip: LODI, CA 952403140
Contact: ARON KLUDT
Telephone: 2093680634
Mailing Name: Not reported
Mailing Address: PO BOX 166

Year: 2016
Gepaid: CAL000332948
TSD EPA ID: NVD980895338
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2015
Gepaid: CAL000332948
TSD EPA ID: NVD980895338
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.6

Year: 2014
Gepaid: CAL000332948
TSD EPA ID: NVD980895338
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2014
Gepaid: CAL000332948
TSD EPA ID: CAD980884183
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.15

Year: 2013
Gepaid: CAL000332948
TSD EPA ID: NVD980895338
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported

Year: 2013
Gepaid: CAL000332948
TSD EPA ID: CAD980884183

E F KLUDT & SONS INC (Continued) **S113152740**

CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.251

Year: 2012
Gepaid: CAL000332948
TSD EPA ID: CAD980884183
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.15

Year: 2012
Gepaid: CAL000332948
TSD EPA ID: CAD980884183
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2011
Gepaid: CAL000332948
TSD EPA ID: CAD980884183
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2011
Gepaid: CAL000332948
TSD EPA ID: CAL980884138
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported

Click this hyperlink while viewing on your computer to access additional CA HAZNET: detail in the EDR Site Report.

Additional Info:
Year: 2016
Gen EPA ID: CAL000332948

Shipment Date: 20150925
Creation Date: 4/7/2016 22:15:27
Receipt Date: 20151020
Manifest ID: 012479493JJK
Trans EPA ID: CAL913534912
Trans Name: SACRAMENTO WASTE OIL
Trans 2 EPA ID: CAR000210617
Trans 2 Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CA LP
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

E F KLUDT & SONS INC (Continued) **S113152740**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150717
Creation Date:	2/4/2016 22:15:54
Receipt Date:	20150805
Manifest ID:	012479109JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150302
Creation Date:	8/18/2015 22:15:10
Receipt Date:	20150320
Manifest ID:	012478446JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P

E F KLUDT & SONS INC (Continued) **S113152740**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000332948
Shipment Date:	20150925
Creation Date:	4/7/2016 22:15:27
Receipt Date:	20151020
Manifest ID:	012479493JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150717
Creation Date:	2/4/2016 22:15:54
Receipt Date:	20150805
Manifest ID:	012479109JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

E F KLUDT & SONS INC (Continued) **S113152740**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150302
Creation Date:	8/18/2015 22:15:10
Receipt Date:	20150320
Manifest ID:	012478446JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000332948
Shipment Date:	20121008
Creation Date:	12/20/2012 22:15:08
Receipt Date:	20121019
Manifest ID:	006629838JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000095885
Trans 2 Name:	HERNANDEZ TRUCKING
TSDF EPA ID:	CAD980884183
Trans Name:	GEM - RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

E F KLUDT & SONS INC (Continued) **S113152740**

Shipment Date:	20120829
Creation Date:	10/23/2012 22:15:21
Receipt Date:	20120831
Manifest ID:	006629827JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM - RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120329
Creation Date:	5/30/2012 20:30:19
Receipt Date:	20120402
Manifest ID:	006629811JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM-RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000332948

Shipment Date:	20111004
Creation Date:	12/13/2011 18:30:13
Receipt Date:	20111011

E F KLUDT & SONS INC (Continued) **S113152740**

Manifest ID:	006629781JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL980884138
Trans Name:	GEM-RANCHO CORDOVA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	300
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110405
Creation Date:	6/4/2011 18:30:27
Receipt Date:	20110413
Manifest ID:	006629481JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM - RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110222
Creation Date:	4/1/2011 18:30:28
Receipt Date:	20110225
Manifest ID:	006629664JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM - RANCHO CORDOVA LLC

E F KLUDT & SONS INC (Continued) **S113152740**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000332948
Shipment Date:	20131112
Creation Date:	3/31/2014 22:15:09
Receipt Date:	20131120
Manifest ID:	006629967JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MGMT OF CA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	600
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130401
Creation Date:	5/5/2013 22:15:17
Receipt Date:	20130405
Manifest ID:	006629893JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	GEM - RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

E F KLUDT & SONS INC (Continued) **S113152740**

RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 1.251
Waste Quantity: 300
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAL000332948

Shipment Date: 20141113
Creation Date: 1/15/2015 22:14:55
Receipt Date: Not reported
Manifest ID: 012478418JJK
Trans EPA ID: CAL913534912
Trans Name: SACRAMENTO WASTE OIL
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID: CAD980884183
TSDF Alt Name: GEM RANCHO CORDOVA LLC DBA PSC ENVIRONMENTAL SERVICES
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.15
Waste Quantity: 300
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20140623
Creation Date: 3/27/2015 22:15:17
Receipt Date: 20140627
Manifest ID: 012478453JJK
Trans EPA ID: CAL913534912
Trans Name: SACRAMENTO WASTE OIL
Trans 2 EPA ID: CAR000210617
Trans 2 Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CA LP
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

E F KLUDT & SONS INC (Continued) **S113152740**

Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140311
Creation Date:	8/14/2014 22:15:12
Receipt Date:	20140320
Manifest ID:	012478485JJK
Trans EPA ID:	CAL913534912
Trans Name:	SACRAMENTO WASTE OIL
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Site ID:	391871
CERS ID:	10181397
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	03-03-2017
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 03/03/2017. The monitoring plan is not current and/or not approved by the EHD. For all five tanks, under "Recordkeeping," change "yes," to "no," for visual inspection records and tank integrity testing results. For tanks TA0136407 and TA0136408, "Under pipe monitoring is performed using the following methods," remove "yes," from "Visual Pipeline Monitoring." This was corrected on site. Ensure a copy is available for inspection at any time.
Violation Division:	San Joaquin County Environmental Health

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	03-09-2017
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 11/08/2017. The clear diesel tank newly installed line leak detector failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed leak detector (LG 113-x listed, if applicable) and notify the Environmental Health Department (EHD) of the replacement part and technician certification performing the repair or replacement of the line leak detector. If the leak detector is replaced by a leak detector other than a Vaporless 99LD2000, obtain a permit and inspection by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-01-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/01/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-05-2019
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	Returned to compliance on 07/29/2019. The ultra low sulfur clear Diesel spill container failed to have a minimum capacity of five gallons. All spill containers shall have a minimum capacity of five gallons. Immediately contact a properly licensed, trained, and

E F KLUDT & SONS INC (Continued) **S113152740**

certified contractor to repair or replace the spill container under permit and inspection of the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 04-06-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 05/07/2015. 2635(a)(2)(A) Installation and Testing Requirements for All New Underground Storage Tank. Triennial cathodic protection system certification testing for the sacrificial anodes were last performed on 3-21-06, 3-26-09, 5-11-12 and was due by March 2015. Testing has not been completed and is one month past due. These tests are required once every 3 years. The anniversary of this test is March and cannot be postponed to a later month. Immediately schedule this test and provide 48 hours notification to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-05-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 07/29/2019. Owners or operators of underground storage tanks that do not meet California Code of regulations, title 23 division 3, chapter 16 section 2635(c)(2) shall test overfill prevention equipment once by October 13th, 2018 and

E F KLUDT & SONS INC (Continued) **S113152740**

every 36 months thereafter; and within 30 days of the date of a repair. The site did not performed the testing by October 13th, 2018. Ensure to conduct overfill prevention equipment inspection within the time frame provided by the regulation and submit test results within 30 days of performing the inspection. Ensure a 48 hour notification is provided to EHD prior to conducting the inspection.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 04-07-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 04/19/2016. Stephen Kludt confirmed that some of the employees on the 1-11-16 list of employees trained by the facility designated operator were hired after July 1, 2005. The hire date was not documented for any of the employees trained by the facility designated operator on this list. The designated operator shall train facility employees for which he or she is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facility s best management practices 2. Employee s role with regard to monitoring equipment as specified in the facility s monitoring plan 3. Employee s role with regard to spills and overfills as specified in the facility s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment alarms Ensure that employees have been trained by the designated operator, maintain the list on [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-23-2021
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 02/23/2021. OBSERVATION: The monitoring plan is not current and/or not approved by the EHD. - The Monitoring Plan for Tank #10181397-003 incorrectly says that Leak Within Secondary Containment of UDC Causes Audible and Visual Alarms - The Monitoring Plan for Tank #10181397-003 does not list a UDC Sensor Model REGULATION GUIDANCE: The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). CORRECTIVE ACTION: This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-05-2019
Citation:	23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description:	Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes:	Returned to compliance on 02/05/2019. Pig mats were observed in UDC SAT 9, UDC 7/8, UDC 9/10, UDC 11/12, and UDC 13/14 preventing the UDC sensor to detect a leak at the earliest opportunity. Monitoring equipment shall be maintained to be able to detect a leak at the earliest possible opportunity. The pig mats were removed by the service technician while the inspector was on site. Ensure that all monitoring equipment is maintained to detect a leak at the earliest opportunity.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-23-2021
Citation:	23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)
Violation Description:	Failure to submit the Designated Underground Storage Tank Operator Identification Form within 30 days of installing a UST system or within 30 days of a change in DO.
Violation Notes:	Returned to compliance on 02/23/2021. OBSERVATION: A new designated operator, Zane Nimmo, began conducting inspections on 10/7/2020 and notification was not provided to the EHD within 30 days of the change. REGULATION GUIDANCE: The owner or operator shall submit a "Designated Underground Storage Tank Operator Identification Form" no later than 30 days after any change in the designated UST operator(s). CORRECTIVE ACTION: This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-05-2019
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 02/05/2019. Maintenance and monitoring records for the last three years were not found on site. Monitoring system certification for 2017 were not available for review at the time of inspection. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings

E F KLUDT & SONS INC (Continued) **S113152740**

	and reconciliations. The operator was able to get the test results emailed while the inspector was on site to correct the violation with inspector on site. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-07-2016
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the spill bucket to have a minimum capacity of five gallons.
Violation Notes:	Returned to compliance on 09/15/2016. The kerosene direct-bury spill container failed when tested. All spill containers shall have a minimum capacity of five gallons and be capable of containing a spill or overfill until it is detected or cleaned up. Immediately discontinue deposition of petroleum into this tank until the component is repaired or replaced by a properly licensed, trained, and certified contractor under permit and inspection of the EHD. If the spill container can t be replaced immediately, there is a possibility that the kerosene UST system may be red tagged to prevent fuel inputs.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	05-09-2019
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide and maintain secondary containment for bulk storage tank installations (except for mobile refuelers and other non-transportation-related tank trucks) sufficient to hold the capacity of the largest container and sufficient freeboard for precipitation.
Violation Notes:	Returned to compliance on 12/17/2019. Some of the single walled tanks in the diked secondary containment area appear to be permanently manifolded. This is not discussed in the SPCC plan and the secondary containment for the combined tanks is not addressed in the SPCC plan. Construct all bulk storage tank installations (except mobile refuelers and other non-transportation-related tank trucks) so that you provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or holding pond. The SPCC plan should address secondary containment for the entire capacity for the single largest container
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

E F KLUDT & SONS INC (Continued) **S113152740**

Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	05-09-2019
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to position or locate mobile or portable storage containers to prevent a discharge as described in 40 CFR 112.1(b), and/or failure to provide adequate secondary containment for mobile or portable oil storage containers (excluding mobile refuelers and other non-transportation-related tank trucks) with sufficient capacity to contain the largest single compartment or container and sufficient freeboard to contain precipitation.
Violation Notes:	Returned to compliance on 12/17/2019. In the discussion for this section, the SPCC plan states that the facility does not have mobile or portable containers regulated under APSA. There were 55 gallon drums and 275 gallon totes storing regulated APSA product. Secondary containment for these tanks was not evident and not fully addressed in the SPCC plan. Position or locate mobile or portable oil storage containers to prevent a discharge as described in 112.1(b). Except for mobile refuelers and other non-transportation-related tank trucks, you must furnish a secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation. The SPCC plan should address secondary containment for all mobile or portable containers regulated under APSA.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-26-2018
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 03/23/2018. The designated operator failed to document all the alarms from the attached alarm history on the March, 2017 designated operator monthly inspection report and failed to check that they were responded to appropriately. The missing alarms include: The L2 dispenser satellite Pan #10/11, sensor out alarm on 03/7/2017, the L3 Dispenser pan #11/12, sensor out alarm on 03/06/2017, the L16 dispenser pan for satellite #9, sensor out alarm on 03/07/2017 or any of the 03/03/2017 alarms due to the monitoring certification. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any

E F KLUDT & SONS INC (Continued) **S113152740**

	alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-01-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/18/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	03-03-2017
Citation:	23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description:	Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes:	Returned to compliance on 03/09/2017. The kerosene LS-3 annular sensor failed to activate an audible and visual alarm when tested and, therefore, the tank is not monitored. The interstitial space shall be monitored with a monitoring system connected to an audible and visual alarm system. Immediately contact a properly licensed, trained, and certified contractor to replace the failed component with a functional component (LG 113-x listed, if applicable). If the kerosene LS-3 sensor is replaced, like-for-like, notify the EHD prior to installing the sensor, and provide the EHD of the replacement part and certification of technician performing the replacement, but a permit is not required. If the kerosene LS-3 sensor is replaced by a different sensor, a permit and inspection by the EHD will be required.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-26-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 02/26/2018. The label on the 55 gallon black steel drum located in the southeast corner of the building, did contain the physical state or the hazardous properties of the waste. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of

E F KLUDT & SONS INC (Continued) **S113152740**

generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all containers are marked with all the required information. Since these containers have been on site longer than 180 days, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Response Plan.
Violation Notes: Returned to compliance on 03/03/2017. The response plan is not current and/or not approved by the EHD. The response plan was missing the titles of the responsible persons in Section IV. This was corrected on site. Ensure a copy is available for inspection at any time.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-26-2018
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 03/23/2018. Copies of uniform manifest number 012479109JJK for the disposal of hazardous waste on 02/19/2016 was not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 05-09-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to use containers with material and construction compatible with material stored and conditions of storage such as pressure and temperature.
Violation Notes: Returned to compliance on 12/17/2019. The SPCC plan certifies the tanks material and construction for 4 tanks within the diked area and

E F KLUDT & SONS INC (Continued) **S113152740**

3 tanks outside the diked are. There were also 55 gallon drums and 275 gallon totes being used as containers for the storage of oil and the material and construction are not certified. Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature. The SPCC should certify material and construction for all containers regulated under APSA storing APSA regulated product

Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 05-09-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards: 1. On a regular schedule. 2. After material repairs are made. 3. By qualified personnel. 4. The frequency and type of testing and inspections based on container size, configuration, and design.
Violation Notes: Returned to compliance on 12/17/2019. The Spill Prevention, Control and Countermeasures plan does not determine what the industry standard will used for the testing and inspection of the tanks. The industry standard, the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspections, which take into account container size, configuration, and design should be addressed in the SPCC plan. The testing and inspection requirements indicated in the SPCC plan are the following Veeder Root Annual testing Annual Vapor Recovery Testing as specified in California Executive Order G-70-139 Semi Annual Leak Check as Required by the San Joaquin Valley Air Pollution Control Test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. You must determine, in accordance with industry standards, the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspectio

Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 05/09/2017. Maintenance and monitoring records for the last three years were not found on site. A service request SR0075584, was issued by the EHD for a permit to repair the kerosene spill container. An inspection was completed on 9/15/2016 on the kerosene spill container. Records of the kerosene spill container repair were not available during the inspection. Immediately locate the invoice and the Underground Storage Tank Service Request Inspection Report. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of

E F KLUDT & SONS INC (Continued) **S113152740**

all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-03-2020
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes: Returned to compliance on 02/04/2020. OBSERVATION: The designated operator inspections for the following months were performed more than 30 days after the previous inspection: - Initial inspection on 3/29/2019, next inspection performed on 4/29/2019, 31 days later. - Initial inspection on 10/11/2019, next inspection performed on 11/11/2019, 31 days later. REGULATION GUIDANCE: The designated operator visual inspections shall be conducted within 30 days or less of the previous inspection. CORRECTIVE ACTION: Ensure that all designated operator inspections are performed within the required time frames.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-26-2018
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount

E F KLUDT & SONS INC (Continued) **S113152740**

	greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 03/23/2018. The 55 gallon black steel drum located in the southeast corner of the building had an accumulation start date of 06/08/2017, over 180 days from the date inspection was conducted. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	03-03-2017
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes:	Returned to compliance on 01/25/2018. The T1 clear diesel, T2 dyed diesel 1, and T3 dyed diesel 2 spill containers failed the one hour hydrostatic test. All USTs shall be equipped with a spill container that has a minimum capacity of five gallons and a drain valve that allows drainage of the collected spill into the primary container or provide a means to keep the container empty. This facility cannot receive a fuel delivery in the T1 clear diesel, T2 dyed diesel 1, and T3 dyed diesel 2 tanks until the spill buckets have been corrected and inspected by the EHD. Immediately contact a properly licensed, trained, and certified contractor to repair the spill containers and notify the EHD to inspect the spill containers at the county hourly rate of $139/hr or replace with an approved spill container under permit and inspection of the EHD. Fuel Inventories T1 clear diesel: 5462 gallons T2 dyed diesel tank 1: 2129 gallons T3 dyed diesel tank 2: 1862 gallons
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-23-2021
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 02/23/2021. OBSERVATION: Financial responsibility documents have not been submitted to the EHD. The most recent financial responsibility documents in CERS and on site for Letter from the Chief Financial Officer dated 12/28/2020 is not signed. REGULATION GUIDANCE: Current financial responsibility documents are required to be submitted annually. CORRECTIVE ACTION: This was corrected on site.
Violation Division:	San Joaquin County Environmental Health

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-01-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Design/Construction - General
Violation Notes:	Returned to compliance on 04/18/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-07-2016
Citation:	HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description:	Failure to maintain the primary containment as product-tight.
Violation Notes:	Returned to compliance on 04/19/2016. Kerosene was observed to be actively leaking from inside the kerosene dispenser into the under dispenser containment sump, indicating a leak in the primary piping. All primary containment for the UST system must be tight. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-19-2016
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.
Violation Notes:	Returned to compliance on 04/19/2016. Copies of the annual vapor recovery system testing records for October 2013 and 2014 and March 2016 were not found on site. Inspections and tests must be conducted in accordance with the written procedures developed in the Spill Prevention, Control, and Countermeasure (SPCC) Plan. Records of these inspections and tests must be signed by the appropriate supervisor or inspector and kept on site with the SPCC Plan for a period of three years. During the inspection copies of the annual vapor recovery system testing records for October 2013 and 2014 and March 2016 were obtained from the testing companies. Continue to maintain a copy of all inspection and testing records for the last three years. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Program:	APSA
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-07-2016
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/19/2016. A current Letter of Chief Financial Officer Letter financial responsibility document has not been submitted to the EHD through CERS. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-01-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/21/2016.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-05-2019
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 02/07/2019. In the March 1st, 2018 inspection report the DO failed to print the alarm history for L3- UDC 11/12. In the June 4th, 2018 inspection report the DO failed to print the alarm history for L4- UDC 13/14. In the September 4th, 2018 inspection report the DO failed to print the alarm history for L13-

E F KLUDT & SONS INC (Continued) **S113152740**

Dyed Diesel 1 STP. In the December 6th, 2018 inspection report the DO failed to print the alarm history for L14- Dyed Diesel 2 STP. The DO failed to sign the Designated inspection report on 12/6/18, 1/4/19 and 2/1/19. The DO was present at the time of inspection and was able to sign the reports to correct this part of the violation while the inspector was on site. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators p

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 03/03/2017. Liquid was observed in the clear diesel submersible turbine pump (stp) sump and the kerosene stp sump. If liquid could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed 1/4 cup liquid from the clear diesel stp sump and 1/2 cup of product from the kerosene stp sump. Ensure that all sumps and annular spaces are maintained free of liquid. Continue to monitor the clear diesel and kerosene stp sumps. If liquid product returns, immediately contact properly licensed, trained and certified contractor to correct the problem.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 05/19/2017. The clear diesel mechanical line leak detector failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed leak detector (LG 113-x listed, if applicable) and notify the EHD of the replacement part and technician certification performing the repair or replacement of the line leak detector.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description: Failure to submit the Annual Monitoring System Certification Form to the CUPA within 30 days of completion of the test.
Violation Notes: Returned to compliance on 04/17/2017. A monitoring system certification, leak detector testing, and spill container testing were performed on April 7, 2016. The monitoring system certification testing report submitted to the facility is incomplete. The monitoring system certification testing report is missing the system setup and alarm history report. A copy of the test report must be submitted within 30 days of the test. Immediately provide the missing information to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 05-09-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to adequately describe in the SPCC Plan, overfill prevention methods, including a description of the devices or systems in place for each container to prevent overfills.
Violation Notes: Returned to compliance on 07/19/2019. The SPCC plan describes the overfill prevention system for the tanks as a Scully System. Per facility personnel, not all APSA regulated tanks use the Scully system. Per facility personnel, the Scully system is to prevent overfill of the truck tank being filled and not the APSA storage tank. Some of the tanks were describes as being sticked as an overfill precaution, being monitored by the Veeder Root system or as having a High liquid level pump cutoff devices Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices: (i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice. (ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level. (iii) Direct audible or code signal communication between the container gauger a
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description: Failure to submit or update a plot plan.
Violation Notes: Returned to compliance on 03/03/2017. An accurate UST Monitoring Site

E F KLUDT & SONS INC (Continued) **S113152740**

	Plan was not submitted. A site plan must be submitted identifying the locations where monitoring will be performed. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	04-01-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/03/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-05-2019
Citation:	HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description:	Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes:	Returned to compliance on 04/05/2019. In under dispenser containment sump 13/14 red dyed Diesel seepage was observed coming from the meter along with pig mats containing red dyed Diesel at the bottom of the UDC, indicating a leak in the primary piping. All primary containment for the UST system must be tight. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Violation Date:	02-23-2021
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 02/24/2021. OBSERVATION: Designated operator

E F KLUDT & SONS INC (Continued) **S113152740**

reports were not signed within the required time frame. -The 11/6/2020 designated operator report was not signed by the owner/operator. -The 12/4/2020 designated operator report was not signed by the owner/operator. -The 12/30/2020 designated operator report was not signed by the owner/operator. -The 1/29/2021 designated operator report was not signed by the owner/operator. REGULATORY GUIDANCE: Within 48 hours of the completion of the designated UST operator visual inspection, the designated operator shall sign and provide the owner or operator with a copy of the inspection report. Within 72 hours of being provided a signed copy of the report, the owner or operator shall provide a description of each corrective action taken or to be taken and shall sign and date the report, acknowledging the identified compliance issues. CORRECTIVE ACTION: Ensure all designated operator inspection reports are completed and signed within the required tim

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 05-09-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to adequately and accurately describe in the SPCC Plan the physical layout of the facility.
Violation Notes: Returned to compliance on 12/17/2019. The facility diagram does not mark as exempt underground storage tanks located at the facility. The facility diagram does not included transfer stations or connecting pipes, specifically the underground pipes associated with the aboveground storage tanks. Describe in your Plan the physical layout of the facility and include a facility diagram, which must mark the location and contents of each fixed oil storage container and the storage area where mobile or portable containers are located. The facility diagram must identify the location of and mark as exempt underground tanks that are otherwise exempted from the requirements of this part under 112.1(d)(4). The facility diagram must also include all transfer stations and connecting pipes, including intra-facility gathering lines that are otherwise exempted from the requirements of this part under 112.1(d)(11). The SPCC plan should include all the required components in the facility diagram. Submit facility diagram for review.
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 05-09-2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to ensure loading/unloading rack drainage flows to catchment basin or treatment facility designed to handle discharges, or use a quick drainage system when a tank car or tank truck loading/unloading rack is present at the facility. The containment system must be designed to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the

E F KLUDT & SONS INC (Continued) **S113152740**

facility.

Violation Notes: Returned to compliance on 12/17/2019. The SPCC plan does not address the secondary containment system for the loading rack. Three movable piping assemblies with at least one swivel joint were observed and meet the definition of a loading rack. A containment system capable of holding at least the maximum capacity of any single compartment of a tank truck loaded at the facility was not evident and was not addressed in the SPCC plan. The oil/water separator capacity is not discussed and the largest container on the truck is not discussed. A drain for the oil water separator was not observed in the immediate vicinity of the loading rack. (1) Where loading/unloading rack drainage does not flow into a catchment basin or treatment facility designed to handle discharges, use a quick drainage system for tank car or tank truck loading/unloading racks. You must design any containment system to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the facility. (2) Provide an

Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-05-2019
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286

Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.

Violation Notes: Returned to compliance on 02/19/2019. UST Tank Information forms for the racing fuel and Kerosene are not current in CERS. Both tanks state to be steel for primary containment and Jacketed as secondary containment however based on the service technician statement and observations the tanks have secondary containment to be Steel. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 03-03-2017
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)

Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.

Violation Notes: Returned to compliance on 04/17/2017. The designated operator failed

E F KLUDT & SONS INC (Continued) **S113152740**

to attach the alarm histories for the designated operator monthly inspection reports for May 6, 2016 to February 1, 2017. The designated operator inadvertently marked "yes," for Item 4 "Has each alarm for the previous month been responded to appropriately." Since there were no alarms during each month, this section should be marked "N/A." During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 04-06-2015
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the spill bucket to have a minimum capacity of five gallons.
Violation Notes: Returned to compliance on 04/06/2015. The 10,000 gallon Trusco syphon tank's red diesel direct-bury spill container failed when tested. All spill containers shall have a minimum capacity of five gallons and be capable of containing a spill or overfill until it is detected or cleaned up. Immediately discontinue deposition of petroleum into the 10,000 gallon Trusco syphon red diesel tank until the component is repaired or replaced by a properly licensed, trained, and certified contractor under permit and inspection of the EHD. If the spill container can t be replaced immediately, there is a possibility that the sypon red diesel UST system may be red tagged to prevent fuel inputs. Note: The drop tube with flapper set at 95% overfill was transferred from the 10,000 gallon Trusco syphon red diesel tank and placed into the riser of the 10,000 gallon Trusco main red diesel tank. The fill tube of the 10,000 gallon Trusco syphon red diesel tank was capped off to prevent fuel inputs.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 04-06-2015
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 04/06/2015. Annual monitoring system certification, leak detector testing, and spill container testing was performed on 4-1-14 and a test report was submitted on 6-27-14, two months late. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division: San Joaquin County Environmental Health

E F KLUDT & SONS INC (Continued) **S113152740**

Violation Program: UST
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-26-2018
Citation: HSC 6.5 25160(b)(1)(C) - California Health and Safety Code, Chapter 6.5, Section(s) 25160(b)(1)(C)
Violation Description: Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste.
Violation Notes: Returned to compliance on 08/13/2018. Generator copies of manifest number 012478937JJK was not sent to DTSC within 30 days of shipment of hazardous waste. The generator manifest copy shall be submitted to DTSC for every shipment on a manifest when California is either the generator state or the destination or consignment state. The generator manifest copy shall be mailed to: DTSC Generator Manifests P.O. Box 400 Sacramento, CA 95812-0400 Immediately mail a copy of the manifests listed and ensure that copies of all generator manifests are sent to DTSC within 30 days of shipping hazardous waste. For the Household Hazardous Waste collection, there is only one manifest that is on the DTSC website for 2017 and none for 2015 or 2016. There were at least 20 other manifests for 2017 that were reviewed. The generator manifest copy shall be submitted to DTSC for every shipment on a manifest when California is either the generator state or the destination or consignment state. The generator manifest [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Violation Date: 02-23-2021
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to submit or maintain a current facility plot plan.
Violation Notes: Returned to compliance on 02/23/2021. OBSERVATION: An accurate UST Monitoring Site Plan was not submitted. - The Ronan panel is not listed on the map REGULATION GUIDANCE: A site plan must be submitted identifying the locations where monitoring will be performed. The site plan must show the general layout of tanks and piping and clearly identify locations of the following equipment, if installed: 1) monitoring system control panels; 2) in-tank liquid level probes (if used for leak detection); 3) devices monitoring tank annular spaces or vault; 4) devices monitoring product piping; 5) devices monitoring fill piping; 6) devices monitoring vent piping; 7) devices monitoring vapor recovery piping; 8) devices monitoring vent/transition sumps; 9) devices monitoring under-dispenser containment; 10) line leak detectors; and 11) devices monitoring any other secondary containment areas. CORRECTIVE ACTION: This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-26-2018
Violations Found: Yes

E F KLUDT & SONS INC (Continued) **S113152740**

Eval Type:	Routine done by local agency
Eval Notes:	This official inspection report supersedes the inspection list provided on 02/26/2018. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the official this official inspection report. Note: The facility is also a San Joaquin County Household Hazardous Waste (HHW) collection site, EPA ID CAH111000959. Site only collects used oil and filters, per facility operator. Amount of Hazardous Waste collected in the last calender year was 12 tons. A violation for failing to send generator manifest copies to DTSC within 30 days was issued to the HHW operations. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include [Truncated]
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-01-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-01-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-06-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5/6/2018. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2016

E F KLUDT & SONS INC (Continued) **S113152740**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine above ground storage tank inspection. Please be aware as of January 1, 2013, all businesses are required to submit all new (or any changes to existing) Aboveground Petroleum Storage Act (APSA) information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov in addition to any other relevant activities and required fields. No later than January 1, 2014, all APSA data must be entered and or updated in CERS.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-09-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by June 8, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	03-09-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for the re-inspection of the Ronan LS-3 sensor, the 99LD2000 mechanical line leak detector for the clear diesel tank T1, and the one-hour hydrostatic testing of the spill containers for the T1 clear diesel and T2 dyed diesel underground storage tanks (USTs). Note: the spill container for the T3 dyed diesel tank (2) has been capped off and for a number of years has not received truck fuel deliveries. These test components failed during the annual monitoring system certification testing on March 3, 2017. The LS-3 sensor was replaced, like for like, with an LS-3 sensor. (There is no serial number on the new LS-3 sensor.) The newly installed LS-3 sensor passed the audible and visual test. The mechanical 99LD2000 was replaced, like for like, for the T1 clear diesel tank. The serial number is 17011445. The newly-installed leak detector failed the test. See item 318 of the inspection report. The spill containers for the T1 clear diesel and T2 dyed diesel USTs passed [Truncated]
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-01-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA

E F KLUDT & SONS INC (Continued) **S113152740**

Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/4/2020. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: -EHD class schedule -Return to compliance certification -Corrective Action Statement
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-26-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	This official inspection report supersedes the inspection list provided on 02/26/2018. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the official this official inspection report. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	02-26-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On-site to witness the monitoring system certification for the kerosene and race fuel UST systems. There were no violations observed at the time of the inspection. Please refer to the February 23, 2021 inspection report for violations observed during the initial monitoring system certification inspection. Documents provided during the inspection: inspection report Notes: Zane Nimmo’s VMI certification expires 01/27/2023. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. All time associated with this inspection will be charged at an hourly rate of $152.
Eval Division:	San Joaquin County Environmental Health

E F KLUDT & SONS INC (Continued) **S113152740**

Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by March 7th, 2019. Document reviewed: Monitoring system certification test results from 2016, 2017, 2018 Secondary containment 2017, corrosion protection test results, employee training, response plan, maintenance records, monitoring plan, financial responsibility documents and designated operator monthly inspection reports from February 2018- February 2019. Documents provided: Return to compliance certification. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-25-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations noted at time of inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/27/2015 . Consent to perform the inspection and to take photos was given by Stephen Kludt-President Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by April 2, 2017 . Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.

E F KLUDT & SONS INC (Continued) **S113152740**

Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5-6-15. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine inspection and witness the annual monitoring system certification testing. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 5-7-16. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-23-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 3/25/2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: list of free CUPA Classes, Return to Compliance

E F KLUDT & SONS INC (Continued) **S113152740**

Certification and Corrective Action Statement form NOTE: Tank 10181397-001 (race fuel) and Tank 10181397-002 (kerosene) were not tested today due to a technician with Ronan certifications was not present. Only diesel tanks (003, 004, and 005) were tested today. All re-inspection activities will be charged at the EHD hourly rate ($152).
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Enforcement Action:
Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 02-26-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 02-26-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-03-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 03-09-2017
Enf Action Type: Notice of Violation (Unified Program)

E F KLUDT & SONS INC (Continued) **S113152740**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: APSA
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 391871
Site Name: E F KLUDT & SONS INC
Site Address: 1126 E PINE ST
Site City: LODI
Site Zip: 95240
Enf Action Date: 04-06-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

E F KLUDT & SONS INC (Continued) **S113152740**

Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Site Address:	1126 E PINE ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	04-07-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	391871
Site Name:	E F KLUDT & SONS INC
Site Address:	1126 E PINE ST
Site City:	LODI
Site Zip:	95240
Enf Action Date:	04-19-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	APSA
Enf Action Source:	CERS,

Coordinates:

Site ID:	391871
Facility Name:	E F KLUDT & SONS INC
Env Int Type Code:	APSA
Program ID:	10181397
Coord Name:	Not reported
Ref Point Type Desc:	Unknown,
Latitude:	38.133862
Longitude:	-121.253105

Affiliation:

Affiliation Type Desc:	Parent Corporation
Entity Name:	E F KLUDT & SONS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Property Owner
Entity Name:	STEPHEN & RICHARD KLUDT
Entity Title:	Not reported
Affiliation Address:	PO BOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95241-0166
Affiliation Phone:	(209) 368-0634,

E F KLUDT & SONS INC (Continued) **S113152740**

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	STEPHEN KLUDT AND RICHARD KLUDT
Entity Title:	Not reported
Affiliation Address:	PO BOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95241-0166
Affiliation Phone:	(209) 368-0634,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	E F KLUDT & SONS INC
Entity Title:	Not reported
Affiliation Address:	PO BOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95241-0166
Affiliation Phone:	(209) 368-0634,

Affiliation Type Desc:	Operator
Entity Name:	E.F. KLUDT & SONS, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 368-0634,

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,

Affiliation Type Desc:	Document Preparer
Entity Name:	ARON KLUDT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	ARON KLUDT
Entity Title:	Not reported
Affiliation Address:	PO BOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported

E F KLUDT & SONS INC (Continued) **S113152740**

Affiliation Zip: 95241-0166
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: KLUDT,STEPHEN C & RICHARD A
Entity Title: Not reported
Affiliation Address: PO BOX 166
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95241-0166
Affiliation Phone: (209) 368-0634,

Affiliation Type Desc: UST Tank Operator
Entity Name: E F KLUDT & SONS INC
Entity Title: Not reported
Affiliation Address: PO BOX 166
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95241-0166
Affiliation Phone: (209) 368-0634,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO BOX 166
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95241-0166
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: ARON KLUDT
Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Permit Applicant
Entity Name: STEPHEN KLUDT
Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 368-0634,

HWTS:
Name: E F KLUDT & SONS INC
Address: 1126 E PINE ST

E F KLUDT & SONS INC (Continued) **S113152740**

Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAL000332948
Inactive Date:	Not reported
Create Date:	05/27/2008
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 166
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952410166
Owner Name:	E F KLUDT & SONS INC
Owner Address:	1126 E PINE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952403140
Contact Name:	ARON KLUDT
Contact Address:	1126 E PINE ST
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.133988
Longitude:	-121.253089

NAICS:

EPA ID:	CAL000332948
Create Date:	2008-05-27 08:03:34.837
NAICS Code:	454312
NAICS Description:	Liquefied Petroleum Gas (Bottled Gas) Dealers
Issued EPA ID Date:	2008-05-27 08:03:34.79000
Inactive Date:	Not reported
Facility Name:	E F KLUDT & SONS INC
Facility Address:	1126 E PINE ST
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952403140

K70 **E F KLUDT & SONS INC** **UST** **U004351415**
NNW **1126 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.238 mi.
1255 ft. **Site 8 of 10 in cluster K**

Relative:
Lower

Actual:
54 ft.

UST:

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	10181397
Latitude:	38.1335
Longitude:	-121.253

Name:	E F KLUDT & SONS INC
Address:	1126 E PINE ST

E F KLUDT & SONS INC (Continued) **U004351415**

City,State,Zip:	LODI, CA 95240
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	Not reported
Latitude:	38.1335
Longitude:	-121.253

K71 **E.F. KLUDT & SONS, INC.** **SWEEPS UST** **S101593472**
NNW **1126 E PINE ST** **CA FID UST** **N/A**
1/8-1/4 **LODI, CA 95240** **EMI**
0.238 mi. **CERS**
1255 ft. **Site 9 of 10 in cluster K**

Relative: **Lower**

Actual: **54 ft.**

SWEEPS UST:

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City:	LODI
Status:	Active
Comp Number:	1364
Number:	1
Board Of Equalization:	44-024667
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-22-88
Owner Tank Id:	01
SWRCB Tank Id:	39-000-001364-000001
Tank Status:	A
Capacity:	20000
Active Date:	11-08-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	8

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City:	LODI
Status:	Active
Comp Number:	1364
Number:	1
Board Of Equalization:	44-024667
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-22-88
Owner Tank Id:	02
SWRCB Tank Id:	39-000-001364-000002
Tank Status:	A
Capacity:	20000
Active Date:	11-08-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City:	LODI
Status:	Active

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Comp Number: 1364
Number: 1
Board Of Equalization: 44-024667
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-22-88
Owner Tank Id: 03
SWRCB Tank Id: 39-000-001364-000003
Tank Status: A
Capacity: 20000
Active Date: 11-08-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: E.F. KLUDT & SONS, INC.
Address: 1126 E PINE ST
City: LODI
Status: Active
Comp Number: 1364
Number: 1
Board Of Equalization: 44-024667
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-22-88
Owner Tank Id: 04
SWRCB Tank Id: 39-000-001364-000004
Tank Status: A
Capacity: 2000
Active Date: 11-08-88
Tank Use: PETROLEUM
STG: P
Content: SOLVENT
Number Of Tanks: Not reported

Name: E.F. KLUDT & SONS, INC.
Address: 1126 E PINE ST
City: LODI
Status: Active
Comp Number: 1364
Number: 1
Board Of Equalization: 44-024667
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-22-88
Owner Tank Id: 05
SWRCB Tank Id: 39-000-001364-000005
Tank Status: A
Capacity: 2000
Active Date: 11-08-88
Tank Use: PETROLEUM
STG: P
Content: KEROSENE
Number Of Tanks: Not reported

Name: E.F. KLUDT & SONS, INC.

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Address:	1126 E PINE ST
City:	LODI
Status:	Active
Comp Number:	1364
Number:	1
Board Of Equalization:	44-024667
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-22-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001364-000006
Tank Status:	A
Capacity:	10000
Active Date:	10-30-90
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City:	LODI
Status:	Active
Comp Number:	1364
Number:	1
Board Of Equalization:	44-024667
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-22-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001364-000007
Tank Status:	A
Capacity:	10000
Active Date:	01-05-90
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City:	LODI
Status:	Active
Comp Number:	1364
Number:	1
Board Of Equalization:	44-024667
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-22-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001364-000008
Tank Status:	A
Capacity:	20000
Active Date:	10-30-90
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39004152
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093680634
Mail To: Not reported
Mailing Address: 1126 E PINE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:
Name: E.F. KLUDT & SONS, INC.
Address: 1126 E PINE ST
City,State,Zip: LODI, CA 95240
Year: 2003
County Code: 39
Air Basin: SJV
Facility ID: 461
Air District Name: SJU
SIC Code: 5171
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: E.F. KLUDT & SONS, INC.
Address: 1126 E PINE ST
City,State,Zip: LODI, CA 95240
Year: 2004
County Code: 39
Air Basin: SJV
Facility ID: 461
Air District Name: SJU
SIC Code: 5171
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.947611671
Reactive Organic Gases Tons/Yr: 0.943506797

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2005
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9476116708292347926
Reactive Organic Gases Tons/Yr:	.94350679668807922
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2006
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.8924144000943408886
Reactive Organic Gases Tons/Yr:	.8646477883453375
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA
Year:	2007
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6871102806542826347
Reactive Organic Gases Tons/Yr:	.6492758993148806
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2008
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.6203610596629030716
Reactive Organic Gases Tons/Yr:	.5836785260009771
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2009
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.61217239903944798
Reactive Organic Gases Tons/Yr:	0.57480087848663197
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.61753728735925595
Reactive Organic Gases Tons/Yr:	0.57901418500000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.54608297592
Reactive Organic Gases Tons/Yr:	0.52335595718
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2012
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.57097667389
Reactive Organic Gases Tons/Yr:	0.54655529789
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2013
County Code:	39

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.5848751261
Reactive Organic Gases Tons/Yr:	0.56157292
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2014
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.60516903997
Reactive Organic Gases Tons/Yr:	0.58009593113
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.60903771515
Reactive Organic Gases Tons/Yr:	0.583660188
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.70222908644
Reactive Organic Gases Tons/Yr:	0.674716097
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.73740248394
Reactive Organic Gases Tons/Yr:	0.709528677
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.80000629253
Reactive Organic Gases Tons/Yr:	0.769398917
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Name:	E.F. KLUDT & SONS, INC.
Address:	1126 E PINE ST
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	461
Air District Name:	SJU
SIC Code:	5171
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.82106479479
Reactive Organic Gases Tons/Yr:	0.791138548
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

CERS:

Name:	E F KLUDT AND SONS INCORPORATED
Address:	1126 EAST PINE STREET
City,State,Zip:	LODI, CA 95240-3140
Site ID:	465446
CERS ID:	110012424634
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Operator
Entity Name:	E F KLUDT AND SONS
Entity Title:	OPERATOR
Affiliation Address:	POBOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	RICHARD KLUDT
Entity Title:	VICE-PRESIDENT
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Facility Owner
Entity Name:	KLUDT STEPHEN C AND RICHARD A
Entity Title:	OWNER
Affiliation Address:	POBOX 166
Affiliation City:	LODI
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

E.F. KLUDT & SONS, INC. (Continued) **S101593472**

Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: STEPHEN KUDT
Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: STEPHEN & AMP RICHARD KLUDT
Entity Title: Not reported
Affiliation Address: POBOX 166
Affiliation City: LODI
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: STEPHEN KLUDT
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: POBOX 166
Affiliation City: LODI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST PO Name
Entity Name: STEPHEN KLUDT & RICHARD KLUDT
Entity Title: Not reported
Affiliation Address: POBOX 166
Affiliation City: LODI
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

K72 **E F KLUDT & SONS INC** **UST** **U003940399**
NNW **1126 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.238 mi.
1255 ft. **Site 10 of 10 in cluster K**

Relative: UST SAN JOAQUIN:
Lower
Actual: Name: E F KLUDT & SONS INC
54 ft. Address: 1126 E PINE ST
City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0003771
Mail Address: PO BOX 166
Mail Address 2: Not reported
Mail Care of: E.F. KLUDT & SONS, INC

E F KLUDT & SONS INC (Continued) **U003940399**

Mail City,St,Zip: LODI, CA 95241-0166

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 20000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181397
Cross Ref Tank ID: Not reported
LEA ID: 10
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1339764662
Longitude: -121.2532012770

Tank Rec ID: Not reported
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 20000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181397
Cross Ref Tank ID: Not reported
LEA ID: 10
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1339764662
Longitude: -121.2532012770

Tank Rec ID: Not reported
Tank Number: 3
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 20000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181397
Cross Ref Tank ID: Not reported
LEA ID: 10
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 38.1339764662
Longitude: -121.2532012770

E F KLUDT & SONS INC (Continued) **U003940399**

Tank Rec ID:	TA0136404
Tank Number:	4
Tank Status:	01 - Active, billable
Tank Capacity:	2000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181397
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1984
Date of Closure:	Not reported
Latitude:	38.1339764662
Longitude:	-121.2532012770

Tank Rec ID:	TA0136405
Tank Number:	5
Tank Status:	01 - Active, billable
Tank Capacity:	2000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181397
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1984
Date of Closure:	Not reported
Latitude:	38.1339764662
Longitude:	-121.2532012770

Tank Rec ID:	TA0136406
Tank Number:	6
Tank Status:	01 - Active, billable
Tank Capacity:	20000
Product Type Desc:	03 - DIESEL
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181397
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1989
Date of Closure:	Not reported
Latitude:	38.1339764662
Longitude:	-121.2532012770

E F KLUDT & SONS INC (Continued) **U003940399**

Tank Rec ID:	TA0136407
Tank Number:	7
Tank Status:	01 - Active, billable
Tank Capacity:	10000
Product Type Desc:	03 - DIESEL
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181397
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1989
Date of Closure:	Not reported
Latitude:	38.1339764662
Longitude:	-121.2532012770

Tank Rec ID:	TA0136408
Tank Number:	8
Tank Status:	01 - Active, billable
Tank Capacity:	10000
Product Type Desc:	03 - DIESEL
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181397
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1989
Date of Closure:	Not reported
Latitude:	38.1339764662
Longitude:	-121.2532012770

L73 **GRIFFIN/SLATE TOWN RANCH** **SWEEPS UST** **S101593390**
NNE **1350 E PINE ST** **CA FID UST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.243 mi.
1283 ft. **Site 1 of 2 in cluster L**

Relative: SWEEPS UST:
Lower

Actual:
59 ft.

Name:	GRIFFIN/SLATE TOWN RANCH
Address:	1350 E PINE ST
City:	LODI
Status:	Not reported
Comp Number:	4116
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-004116-000001
Tank Status:	Not reported
Capacity:	500

GRIFFIN/SLATE TOWN RANCH (Continued) **S101593390**

Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 1

CA FID UST:
Facility ID: 39003890
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2093681390
Mail To: Not reported
Mailing Address: 1717 S STOCKTON ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

L74 **GRIFFIN/SLATE TOWN RANCH** **UST** **U004023954**
NNE **1350 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.243 mi.
1283 ft. **Site 2 of 2 in cluster L**

Relative: **Lower**
Actual: **59 ft.**

UST SAN JOAQUIN:
Name: GRIFFIN/SLATE TOWN RANCH
Address: 1350 E PINE ST
City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0005253
Mail Address: 1350 E PINE
Mail Address 2: Not reported
Mail Care of: GRIFFIN/SLATE TOWN RANCH
Mail City,St,Zip: LODI, CA 95240

Tank Rec ID: TA0501884
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 500
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2322
Decode for Program Element: 2322 - EXEMPT UST
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported

GRIFFIN/SLATE TOWN RANCH (Continued) **U004023954**

Latitude: Not reported
Longitude: Not reported

J75 **CREATIVE IMAGE AUTO BODY/PAINT** **EMI** **S120713484**
SSW **1024 INDUSTRIAL WY UNIT K** **MWMP** **N/A**
1/8-1/4 **LODI, CA 95240**
0.244 mi.
1287 ft. **Site 10 of 10 in cluster J**

Relative:
Lower

Actual:
57 ft.

EMI:

Name:	CREATIVE IMAGE AUTO BODY/PAINT
Address:	1024 INDUSTRIAL WY UNIT K
City,State,Zip:	LODI, CA 95240
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	249
Air District Name:	SJU
SIC Code:	7532
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CREATIVE IMAGE AUTO BODY/PAINT
Address:	1024 INDUSTRIAL WY UNIT K
City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	249
Air District Name:	SJU
SIC Code:	7532
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CREATIVE IMAGE AUTO BODY/PAINT
Address:	1024 INDUSTRIAL WY UNIT K
City,State,Zip:	LODI, CA 95240
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	249
Air District Name:	SJU

CREATIVE IMAGE AUTO BODY/PAINT (Continued) **S120713484**

SIC Code:	7532
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CREATIVE IMAGE AUTO BODY/PAINT
Address:	1024 INDUSTRIAL WY UNIT K
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	249
Air District Name:	SJU
SIC Code:	7532
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CREATIVE IMAGE AUTO BODY/PAINT
Address:	1024 INDUSTRIAL WY UNIT K
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	249
Air District Name:	SJU
SIC Code:	7532
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

MWMP:

Name:	TRILOGY MEDWASTE WEST LLC
Address:	1024 INDUSTRIAL WAY, SUITE H
City,State,Zip:	LODI, CA 95240
Facility Type:	Transfer Only

CREATIVE IMAGE AUTO BODY/PAINT (Continued) **S120713484**

Contact Name: Pang Hang
Contact Phone: 559-237-1800
Registration Number: TS-138

M76 **FORMER LUMBER DISTRIBUTION CEN** **HIST UST** **U001604318**
North **1240 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.245 mi.
1296 ft. **Site 1 of 3 in cluster M**

Relative: **Lower**
Actual: **58 ft.**

HIST UST:
Name: FORMER LUMBER DISTRIBUTION CEN
Address: 1240 E PINE ST
City,State,Zip: LODI, CA 95240
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000065722
Facility Type: Not reported
Other Type: NOT IN OPERATION
Contact Name: NONE
Telephone: 7144760808
Owner Name: WICKES COMPANIES, INC.
Owner Address: 3340 OCEAN PARK BOULEVARD
Owner City,St,Zip: SANTA MONICA, CA 90405
Total Tanks: 0001

Tank Num: 001
Container Num: 01
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

M77 **R & L GRIFFIN** **UST** **U004260694**
North **1240 E PINE ST** **N/A**
1/8-1/4 **LODI, CA 95240**
0.245 mi.
1296 ft. **Site 2 of 3 in cluster M**

Relative: **Lower**
Actual: **58 ft.**

UST SAN JOAQUIN:
Name: R & L GRIFFIN
Address: 1240 E PINE ST
City,State,Zip: LODI, CA 95240
Region: SJ
Facility Id: FA0005756
Mail Address: 119 N CRESCENT ST
Mail Address 2: Not reported
Mail Care of: R & L GRIFFIN
Mail City,St,Zip: LODI, CA 95240

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable

R & L GRIFFIN (Continued) **U004260694**

Tank Capacity:	10000
Product Type Desc:	09 - OTHER PETROLEUM
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

M78 **R & L GRIFFIN** **SWEEPS UST** **S101593250**
North **1240 E PINE ST** **HIST UST** **N/A**
1/8-1/4 **LODI, CA 95240** **CA FID UST**
0.245 mi.
1296 ft. **Site 3 of 3 in cluster M**

Relative: **Lower**

Actual: **58 ft.**

SWEEPS UST:

Name:	R & L GRIFFIN
Address:	1240 E PINE ST
City:	LODI
Status:	Not reported
Comp Number:	1853
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001853-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

HIST UST:

Name:	FORMER LUMBER DISTRIBUTION CEN
Address:	1240 E PINE STREET
City,State,Zip:	LODI, CA 95240
File Number:	0002B605
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B605.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported

R & L GRIFFIN (Continued) **S101593250**

Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 39003563
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 119 N CRESCENT ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

---

79 West 1/8-1/4 0.249 mi. 1316 ft.

JIM THORPE OIL INC
351 BECKMAN RD
LODI, CA 95240

UST **U003786344**
N/A

Relative: Lower

Actual: 52 ft.

UST:
Name: JIM THORPE OIL INC
Address: 351 BECKMAN RD
City,State,Zip: LODI, CA 95240
Facility ID: FA0003773
Permitting Agency: Not reported
CERSID: Not reported
Latitude: 38.13901481
Longitude: -121.25775

80 S.J. MOSQUITO ABATEMENT D **LUST** **S102436196**
WNW 200 BECKMAN **Cortese** **N/A**
1/4-1/2 LODI, CA 95240 **HIST CORTESE**
0.273 mi. **CERS**
1441 ft.

Relative:
Lower

Actual:
52 ft.

LUST:

Name:	S.J. MOSQUITO ABATEMENT DIST
Address:	200 BECKMAN RD N
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700152
Global Id:	T0607700152
Latitude:	38.136116
Longitude:	-121.256393
Status:	Completed - Case Closed
Status Date:	07/08/1997
Case Worker:	Not reported
RB Case Number:	390218
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1849
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Benzene
Site History:	Not reported

LUST:

Global Id:	T0607700152
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700152
Action Type:	Other
Date:	05/04/1988
Action:	Leak Reported
Global Id:	T0607700152
Action Type:	ENFORCEMENT
Date:	07/08/1997
Action:	Staff Letter
Global Id:	T0607700152
Action Type:	RESPONSE
Date:	02/08/1994
Action:	Site Assessment Report
Global Id:	T0607700152
Action Type:	RESPONSE
Date:	11/22/1993
Action:	Interim Remedial Action Report
Global Id:	T0607700152

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

Action Type: RESPONSE
Date: 01/01/1997
Action: Well Installation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 10/14/1992
Action: Monitoring Report - Quarterly

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/25/1997
Action: Soil Vapor Intrusion Investigation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 06/09/1995
Action: Other Report / Document

Global Id: T0607700152
Action Type: RESPONSE
Date: 01/30/1995
Action: Soil and Water Investigation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/24/1993
Action: Monitoring Report - Quarterly

Global Id: T0607700152
Action Type: RESPONSE
Date: 04/07/1998
Action: Interim Remedial Action Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 04/01/1992
Action: Well Installation Report

Global Id: T0607700152
Action Type: RESPONSE
Date: 01/13/1992
Action: Monitoring Report - Quarterly

Global Id: T0607700152
Action Type: RESPONSE
Date: 02/26/1994
Action: Soil and Water Investigation Report

Global Id: T0607700152
Action Type: Other
Date: 08/13/1986
Action: Leak Discovery

LUST:
Global Id: T0607700152
Status: Open - Case Begin Date

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

Status Date: 08/13/1986

Global Id: T0607700152
Status: Completed - Case Closed
Status Date: 07/08/1997

LUST REG 5:
Name: S.J. MOSQUITO ABATEMENT DIST
Address: 200 BECKMAN RD N
City: LODI
Region: 5
Status: Case Closed
Case Number: 390218
Case Type: Soil only
Substance: Not reported
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: S.J. MOSQUITO ABATEMENT DIST
Address: 200 BECKMAN RD N
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700152
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: S.J. MOSQUITO ABATEMENT D
edr_fadd1: 200 BECKMAN
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390218

S.J. MOSQUITO ABATEMENT D (Continued) **S102436196**

CERS:
Name: S.J. MOSQUITO ABATEMENT DIST
Address: 200 BECKMAN RD N
City,State,Zip: LODI, CA 95240
Site ID: 205216
CERS ID: T0607700152
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

N81 **PINKERTON FOUNDRY** **ENVIROSTOR** **1000590114**
North **32 N CLUFF** **EMI** **N/A**
1/4-1/2 **LODI, CA 95240**
0.281 mi.
1484 ft. **Site 1 of 3 in cluster N**

Relative:
Lower

Actual:
55 ft.

ENVIROSTOR:
Name: PINKERTON FOUNDRY
Address: 32 N CLUFF AVE
City,State,Zip: LODI, CA 95240
Facility ID: 39330006
Status: Refer: Other Agency
Status Date: 11/16/1994
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13472
Longitude: -121.2522
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: American Dutch Foundry
Alias Type: Alternate Name

PINKERTON FOUNDRY (Continued) **1000590114**

Alias Name: T0607700223
Alias Type: GeoTracker Global ID
Alias Name: 39330006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1982
Comments: FACILITY IDENTIFIED FROM INDUSTRIAL INDEX.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Name: PINKERTON FOUNDRY
Address: 32 N CLUFF
City,State,Zip: LODI, CA 952400000
Year: 1987
County Code: 39
Air Basin: SJV
Facility ID: 10
Air District Name: SJU
SIC Code: 3321
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

N82 **AMERICAN DUTCH FOUNDRY** **LUST** **S101302488**
North **42 CLUFF** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **HIST CORTESE**
0.302 mi. **CERS**
1592 ft. **Site 2 of 3 in cluster N**

Relative: **Lower**
Actual: **55 ft.**

LUST:
Name: AMERICAN DUTCH FOUNDRY
Address: 42 CLUFF AVE N
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700223
Global Id: T0607700223
Latitude: 38.135229

AMERICAN DUTCH FOUNDRY (Continued) **S101302488**

Longitude: -121.251909
Status: Completed - Case Closed
Status Date: 09/19/2002
Case Worker: Not reported
RB Case Number: 390303
Local Agency: Not reported
File Location: Not reported
Local Case Number: 0001435
Potential Media Affect: Soil
Potential Contaminants of Concern: Lead
Site History: Not reported

LUST:
Global Id: T0607700223
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700223
Action Type: Other
Date: 11/15/1988
Action: Leak Reported

Global Id: T0607700223
Action Type: Other
Date: 11/15/1988
Action: Leak Discovery

LUST:
Global Id: T0607700223
Status: Open - Case Begin Date
Status Date: 11/15/1988

Global Id: T0607700223
Status: Completed - Case Closed
Status Date: 09/19/2002

LUST REG 5:
Name: AMERICAN DUTCH FOUNDRY
Address: 42 CLUFF AVE N
City: LODI
Region: 5
Status: Case Closed
Case Number: 390303
Case Type: Soil only
Substance: Not reported
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

AMERICAN DUTCH FOUNDRY (Continued) **S101302488**

CORTESE:

Name:	AMERICAN DUTCH FOUNDRY
Address:	42 CLUFF AVE N
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700223
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	AMERICAN DUTCH FOUNDRY
edr_fadd1:	42 CLUFF
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390303

CERS:

Name:	AMERICAN DUTCH FOUNDRY
Address:	42 CLUFF AVE N
City,State,Zip:	LODI, CA 95240
Site ID:	220196
CERS ID:	T0607700223
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

83
South
1/4-1/2
0.311 mi.
1641 ft.

LUSD TRANSPORTATION DEPT
820 CLUFF
LODI, CA 95240

LUST
Cortese
HIST CORTESE
CERS

S102432807
N/A

Relative:
Lower

Actual:
57 ft.

LUST:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700460
Global Id:	T0607700460
Latitude:	38.124108
Longitude:	-121.25237
Status:	Completed - Case Closed
Status Date:	05/09/1994
Case Worker:	Not reported
RB Case Number:	390584
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	0001436
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700460
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700460
Action Type:	Other
Date:	04/03/1991
Action:	Leak Reported

Global Id:	T0607700460
Action Type:	ENFORCEMENT
Date:	04/03/1991
Action:	Unauthorized Release Form

Global Id:	T0607700460
Action Type:	ENFORCEMENT
Date:	04/03/1991
Action:	Unauthorized Release Form

Global Id:	T0607700460
Action Type:	Other
Date:	08/19/1986
Action:	Leak Discovery

LUSD TRANSPORTATION DEPT (Continued) **S102432807**

LUST:

Global Id:	T0607700460
Status:	Open - Case Begin Date
Status Date:	08/19/1986
Global Id:	T0607700460
Status:	Open - Site Assessment
Status Date:	08/19/1986
Global Id:	T0607700460
Status:	Completed - Case Closed
Status Date:	05/09/1994

LUST REG 5:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City:	LODI
Region:	5
Status:	Case Closed
Case Number:	390584
Case Type:	Soil only
Substance:	GASOLINE
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

CORTESE:

Name:	LUSD TRANSPORTATION DEPT.
Address:	820 CLUFF AVE S
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700460
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

LUSD TRANSPORTATION DEPT (Continued) **S102432807**

edr_fname: LUSD TRANSPORTATION DEPT
edr_fadd1: 820 CLUFF
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390584

CERS:
Name: LUSD TRANSPORTATION DEPT.
Address: 820 CLUFF AVE S
City,State,Zip: LODI, CA 95240
Site ID: 231576
CERS ID: T0607700460
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

O84 **CAL TRANS LODI MAINTENANCE** **LUST** **S104403431**
NW **845 PINE ST E** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.321 mi.
1695 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
52 ft.

LUST:
Name: CAL TRANS LODI MAINTENANCE
Address: 845 PINE ST E
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700365
Global Id: T0607700365
Latitude: 38.134644
Longitude: -121.256378
Status: Completed - Case Closed
Status Date: 06/26/2002
Case Worker: Not reported
RB Case Number: 390470
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1363
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0607700365
Contact Type: Regional Board Caseworker

CAL TRANS LODI MAINTENANCE (Continued) **S104403431**

Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700365
Action Type: ENFORCEMENT
Date: 06/12/2002
Action: Closure/No Further Action Letter

Global Id: T0607700365
Action Type: Other
Date: 02/06/1990
Action: Leak Reported

Global Id: T0607700365
Action Type: Other
Date: 01/29/1990
Action: Leak Discovery

LUST:
Global Id: T0607700365
Status: Open - Case Begin Date
Status Date: 01/29/1990

Global Id: T0607700365
Status: Open - Site Assessment
Status Date: 01/29/1990

Global Id: T0607700365
Status: Completed - Case Closed
Status Date: 06/26/2002

LUST REG 5:
Name: CAL TRANS LODI MAINTENANCE
Address: 845 PINE ST E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390470
Case Type: Drinking Water Aquifer affected
Substance: HYDROCARBONS
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 0

CORTESE:
Name: CAL TRANS LODI MAINTENANCE
Address: 845 PINE ST E
City,State,Zip: LODI, CA 95240

CAL TRANS LODI MAINTENANCE (Continued) **S104403431**

Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700365
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	CAL TRANS LODI MAINTENANCE
Address:	845 PINE ST E
City,State,Zip:	LODI, CA 95240
Site ID:	220291
CERS ID:	T0607700365
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

N85 **PINKERTON FOUNDRY** **RGA LUST** **S114669853**
North **42 NORTH CLUFF AVENUE** **N/A**
1/4-1/2 **LODI, CA**
0.331 mi.
1749 ft. **Site 3 of 3 in cluster N**

Relative:
Lower

Actual:
55 ft.

RGA LUST:

Name:	PINKERTON FOUNDRY
Address:	42 NORTH CLUFF AVENUE
City:	LODI
State:	LODI

1992 PINKERTON FOUNDRY 42 NORTH CLUFF AVENUE

O86 **CAL TRANS LODI MAINTENANCE** **RGA LUST** **S114589428**
NW **845 EAST PINE** **N/A**
1/4-1/2 **LODI, CA**
0.340 mi.
1797 ft. **Site 2 of 2 in cluster O**

Relative: **Lower**
Actual: **52 ft.**

RGA LUST:
Name: CAL TRANS LODI MAINTENANCE
Address: 845 EAST PINE
City: LODI
State: LODI
1992 CAL TRANS LODI MAINTENANCE 845 EAST PINE

P87 **PART CONTAINER CORP** **RGA LUST** **S114667393**
NE **1400 VICTOR RD** **N/A**
1/4-1/2 **LODI, CA**
0.381 mi.
2012 ft. **Site 1 of 2 in cluster P**

Relative: **Higher**
Actual: **61 ft.**

RGA LUST:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2012 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2011 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2010 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2009 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2008 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2007 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2006 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2005 PART CONTAINER CORP 1400 VICTOR RD

PART CONTAINER CORP (Continued) **S114667393**

Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2003 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2002 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2001 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
2000 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
1998 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
1997 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
1996 PART CONTAINER CORP 1400 VICTOR RD
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
State: LODI
1995 PART CONTAINER CORP 1400 VICTOR RD

P88 **PART CONTAINER CORP** **LUST** **S103629795**
NE **1400 VICTOR** **CHMIRS** **N/A**
1/4-1/2 **LODI, CA 95240** **Cortese**
0.381 mi. **HIST CORTESE**
2012 ft. **Site 2 of 2 in cluster P** **CERS**

Relative:
Higher

Actual:
61 ft.

LUST:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700681
Global Id: T0607700681
Latitude: 38.1376388
Longitude: -121.250197
Status: Completed - Case Closed

PART CONTAINER CORP (Continued) **S103629795**

Status Date: 03/27/1995
Case Worker: Not reported
RB Case Number: 390853
Local Agency: Not reported
File Location: Not reported
Local Case Number: 231951
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607700681
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700681
Action Type: Other
Date: 10/04/1994
Action: Leak Reported

Global Id: T0607700681
Action Type: Other
Date: 10/04/1994
Action: Leak Discovery

LUST:
Global Id: T0607700681
Status: Open - Case Begin Date
Status Date: 10/04/1994

Global Id: T0607700681
Status: Open - Site Assessment
Status Date: 10/04/1994

Global Id: T0607700681
Status: Completed - Case Closed
Status Date: 03/27/1995

LUST REG 5:
Name: PART CONTAINER CORP
Address: 1400 VICTOR RD
City: LODI
Region: 5
Status: Case Closed
Case Number: 390853
Case Type: Soil only
Substance: DIESEL
Staff Initials: JLB
Lead Agency: Local

PART CONTAINER CORP (Continued) **S103629795**

Program: LUST
MTBE Code: N/A

CHMIRS:

Name:	Not reported
Address:	1400 VICTOR RD
City,State,Zip:	LODI, CA 95240
OES Incident Number:	8-1419
OES notification:	03/23/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Dart Container
Incident Date:	3/23/199812:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Hydrualic oil
Gallons:	200
Unknown:	0

PART CONTAINER CORP (Continued) **S103629795**

Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Pipe broke and allowed substance to flow on to floor of building. Spill has been cleaned up.

CORTESE:

Name:	PART CONTAINER CORP
Address:	1400 VICTOR RD
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700681
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	PART CONTAINER CORP
edr_fadd1:	1400 VICTOR
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390853

CERS:

Name:	PART CONTAINER CORP
Address:	1400 VICTOR RD

PART CONTAINER CORP (Continued) **S103629795**

City,State,Zip: LODI, CA 95240
Site ID: 197911
CERS ID: T0607700681
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

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89 SW 1/4-1/2 0.404 mi. 2131 ft. **MATAGA OLDS, BUICK** **LUST** **S101302478**
880 BECKMAN **Cortese** **N/A**
LODI, CA 95240 **HIST CORTESE**
CERS

Relative: Lower
Actual: 57 ft.

LUST:
Name: MATAGA OLDS, BUICK
Address: 880 BECKMAN RD S
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700497
Global Id: T0607700497
Latitude: 38.124048
Longitude: -121.256003
Status: Completed - Case Closed
Status Date: 05/20/1996
Case Worker: Not reported
RB Case Number: 390638
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1835
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0607700497
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700497
Action Type: Other
Date: 07/25/1991

MATAGA OLDS, BUICK (Continued) **S101302478**

Action: Leak Reported

Global Id: T0607700497
Action Type: ENFORCEMENT
Date: 05/20/1996
Action: Staff Letter

Global Id: T0607700497
Action Type: RESPONSE
Date: 07/23/1991
Action: Other Report / Document

Global Id: T0607700497
Action Type: RESPONSE
Date: 10/15/1992
Action: Other Report / Document

Global Id: T0607700497
Action Type: RESPONSE
Date: 11/22/1993
Action: Correspondence

Global Id: T0607700497
Action Type: RESPONSE
Date: 08/02/1991
Action: Other Report / Document

Global Id: T0607700497
Action Type: ENFORCEMENT
Date: 06/21/1991
Action: Staff Letter

Global Id: T0607700497
Action Type: Other
Date: 05/31/1991
Action: Leak Discovery

LUST:
Global Id: T0607700497
Status: Open - Case Begin Date
Status Date: 05/31/1991

Global Id: T0607700497
Status: Open - Site Assessment
Status Date: 07/25/1991

Global Id: T0607700497
Status: Completed - Case Closed
Status Date: 05/20/1996

LUST REG 5:
Name: MATAGA OLDS, BUICK
Address: 880 BECKMAN RD S
City: LODI
Region: 5

MATAGA OLDS, BUICK (Continued) **S101302478**

Status: Case Closed
Case Number: 390638
Case Type: Soil only
Substance: WASTE OIL
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:

Name:	MATAGA OLDS, BUICK
Address:	880 BECKMAN RD S
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700497
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	MATAGA OLDS, BUICK
edr_fadd1:	880 BECKMAN
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390638

CERS:

Name:	MATAGA OLDS, BUICK
Address:	880 BECKMAN RD S
City,State,Zip:	LODI, CA 95240
Site ID:	191120
CERS ID:	T0607700497
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported

MATAGA OLDS, BUICK (Continued) **S101302478**

Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Q90 **DON KELLER TRUCKING** **LUST** **S104403561**
NNW **940 VICTOR** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **HIST CORTESE**
0.418 mi. **CERS**
2208 ft. **Site 1 of 2 in cluster Q**

Relative:
Lower

Actual:
52 ft.

LUST:

Name:	DON KELLER TRUCKING
Address:	940 VICTOR RD
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700731
Global Id:	T0607700731
Latitude:	38.136372
Longitude:	-121.25385
Status:	Completed - Case Closed
Status Date:	02/12/1999
Case Worker:	Not reported
RB Case Number:	390909
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	0001379
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607700731
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700731
Action Type:	Other
Date:	03/19/1996
Action:	Leak Reported

Global Id:	T0607700731
Action Type:	Other
Date:	01/03/1996
Action:	Leak Discovery

LUST:

DON KELLER TRUCKING (Continued) **S104403561**

Global Id: T0607700731
Status: Open - Case Begin Date
Status Date: 01/03/1996

Global Id: T0607700731
Status: Completed - Case Closed
Status Date: 02/12/1999

LUST REG 5:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
Region: 5
Status: Case Closed
Case Number: 390909
Case Type: Soil only
Substance: DIESEL
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700731
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: DON KELLER TRUCKING
edr_fadd1: 940 VICTOR
City,State,Zip: LODI, CA 95240
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA

DON KELLER TRUCKING (Continued) **S104403561**

Reg Id: 390909

CERS:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City,State,Zip: LODI, CA 95240
Site ID: 230203
CERS ID: T0607700731
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Q91 **DON KELLER TRUCKING** **RGA LUST** **S114611500**
NNW **940 VICTOR RD** **N/A**
1/4-1/2 **LODI, CA**
0.418 mi.
2208 ft. **Site 2 of 2 in cluster Q**

Relative:
Lower

Actual:
52 ft.

RGA LUST:
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2012 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2011 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2010 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2009 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2008 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI

DON KELLER TRUCKING (Continued) **S114611500**

2007 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2006 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2005 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2003 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2002 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2001 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
2000 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
1998 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
1997 DON KELLER TRUCKING 940 VICTOR RD
Name: DON KELLER TRUCKING
Address: 940 VICTOR RD
City: LODI
State: LODI
1996 DON KELLER TRUCKING 940 VICTOR RD

R92 **TERESI TRUCKING** **RGA LUST** **S114699376**
NNW **900 1/2 VICTOR RD** **N/A**
1/4-1/2 **LODI, CA**
0.427 mi.
2256 ft. **Site 1 of 5 in cluster R**

Relative: RGA LUST:
Lower Name: TERESI TRUCKING
Actual: Address: 900 1/2 VICTOR RD
52 ft. City: LODI
State: LODI

TERESI TRUCKING (Continued) **S114699376**

1998 TERESI TRUCKING 900 1/2 VICTOR RD
Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
State: LODI
1997 TERESI TRUCKING 900 1/2 VICTOR RD
Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
State: LODI
1996 TERESI TRUCKING 900 1/2 VICTOR RD

R93 **TERESI TRUCKING** **RGA LUST** **S114699379**
NNW **900-1/2 VICTOR RD** **N/A**
1/4-1/2 **LODI, CA**
0.427 mi.
2256 ft. **Site 2 of 5 in cluster R**

Relative: RGA LUST:
Lower
Name: TERESI TRUCKING
Actual: Address: 900-1/2 VICTOR RD
52 ft. City: LODI
State: LODI
2001 TERESI TRUCKING 900-1/2 VICTOR RD
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD
City: LODI
State: LODI
2000 TERESI TRUCKING 900-1/2 VICTOR RD

R94 **TERESI TRUCKING** **RGA LUST** **S114699377**
NNW **900-1/2 VICTOR RD E** **N/A**
1/4-1/2 **LODI, CA**
0.427 mi.
2256 ft. **Site 3 of 5 in cluster R**

Relative: RGA LUST:
Lower
Name: TERESI TRUCKING
Actual: Address: 900-1/2 VICTOR RD E
52 ft. City: LODI
State: LODI
2012 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2011 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2010 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI

TERESI TRUCKING (Continued) **S114699377**

2009 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2008 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2007 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2006 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2005 TERESI TRUCKING 900-1/2 VICTOR RD E
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
State: LODI
2003 TERESI TRUCKING 900-1/2 VICTOR RD E

R95
NNW
1/4-1/2
0.427 mi.
2256 ft.

Relative:
Lower

Actual:
52 ft.

TERESI TRUCKING LLC
900 1/2 VICTOR ROAD
LODI, CA 95240

Site 4 of 5 in cluster R

RCRA-LQG **1000222047**
LUST **CAD043274380**
SWEEPS UST
FINDS
ECHO
Cortese
HAZNET
CERS
HWTS

RCRA-LQG:

Date Form Received by Agency:		19851004
Handler Name:	TERESI TRUCKING INC	
Handler Address:		900 1/2 VICTOR RD
Handler City,State,Zip:		LODI, CA 95241
EPA ID:		CAD043274380
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		900 1/2 VICTOR RD
Contact City,State,Zip:		LODI, CA 94521
Contact Telephone:		209-368-2472
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Large Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA

TERESI TRUCKING LLC (Continued) **1000222047**

State District:	1
Mailing Address:	PO BOX 1270
Mailing City,State,Zip:	LODI, CA 95241
Owner Name:	TERESI TRUCKING INC
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

TERESI TRUCKING LLC (Continued) **1000222047**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERESI TRUCKING INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19851004
Handler Name: TERESI TRUCKING INC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

LUST:

Name:	TERESI TRUCKING
Address:	900-1/2 VICTOR RD E
City,State,Zip:	LODI, CA 95241
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700727
Global Id:	T0607700727
Latitude:	38.1374668
Longitude:	-121.2561231

TERESI TRUCKING LLC (Continued) **1000222047**

Status:	Completed - Case Closed
Status Date:	04/13/2001
Case Worker:	Not reported
RB Case Number:	390903
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1747
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700727
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	12/12/1995
Action:	Staff Letter - #12/12/1995
Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	03/05/1996
Action:	Other Report - #3/5/1996
Global Id:	T0607700727
Action Type:	Other
Date:	12/05/1995
Action:	Leak Reported
Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	09/15/2000
Action:	Closure/No Further Action Letter - #9/15/2000
Global Id:	T0607700727
Action Type:	RESPONSE
Date:	01/24/2000
Action:	Monitoring Report - Quarterly
Global Id:	T0607700727
Action Type:	RESPONSE
Date:	07/06/1999
Action:	Correspondence
Global Id:	T0607700727
Action Type:	ENFORCEMENT
Date:	12/05/1995
Action:	Unauthorized Release Form - #12/5/1995

TERESI TRUCKING LLC (Continued) **1000222047**

Global Id: T0607700727
Action Type: RESPONSE
Date: 11/12/1999
Action: Monitoring Report - Quarterly

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 09/12/2000
Action: Other Report - #9/12/2000

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 04/10/1998
Action: Staff Letter - #4/10/1998

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 01/24/2000
Action: Other Report - #1/24/2000

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 02/21/1996
Action: Staff Letter - #2/21/1996

Global Id: T0607700727
Action Type: ENFORCEMENT
Date: 05/24/2000
Action: Other Report - #5/24/2000

Global Id: T0607700727
Action Type: Other
Date: 12/01/1995
Action: Leak Discovery

LUST:
Global Id: T0607700727
Status: Open - Case Begin Date
Status Date: 12/01/1995

Global Id: T0607700727
Status: Open - Site Assessment
Status Date: 12/01/1995

Global Id: T0607700727
Status: Completed - Case Closed
Status Date: 04/13/2001

LUST REG 5:
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390903

TERESI TRUCKING LLC (Continued) **1000222047**

Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 3

SWEEPS UST:
Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 01
SWRCB Tank Id: 39-000-001747-000001
Tank Status: A
Capacity: 12000
Active Date: 01-18-89
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 4

Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91
Created Date: 06-29-88
Owner Tank Id: 02
SWRCB Tank Id: 39-000-001747-000002
Tank Status: A
Capacity: 10000
Active Date: 01-18-89
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: TERESI TRUCKING
Address: 900 1/2 VICTOR RD
City: LODI
Status: Active
Comp Number: 1747
Number: 1
Board Of Equalization: 44-024855
Referral Date: 10-08-91
Action Date: 10-08-91

TERESI TRUCKING LLC (Continued) **1000222047**

Created Date:	06-29-88
Owner Tank Id:	03
SWRCB Tank Id:	39-000-001747-000003
Tank Status:	A
Capacity:	5000
Active Date:	01-18-89
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	TERESI TRUCKING
Address:	900 1/2 VICTOR RD
City:	LODI
Status:	Active
Comp Number:	1747
Number:	1
Board Of Equalization:	44-024855
Referral Date:	10-08-91
Action Date:	10-08-91
Created Date:	06-29-88
Owner Tank Id:	04
SWRCB Tank Id:	39-000-001747-000004
Tank Status:	A
Capacity:	1
Active Date:	07-05-89
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

FINDS:
Registry ID: 110008261692

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000222047
Registry ID:	110008261692
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008261692
Name:	TERESI TRUCKING LLC
Address:	900 1/2 VICTOR ROAD

TERESI TRUCKING LLC (Continued) **1000222047**

City,State,Zip: LODI, CA 95240

CORTESE:
Name: TERESI TRUCKING
Address: 900-1/2 VICTOR RD E
City,State,Zip: LODI, CA 95241
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700727
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:
Name: TERESI TRUCKING LLC
Address: 900 1/2 E VICTOR RD
Address 2: Not reported
City,State,Zip: LODI, CA 952411270
Contact: MIKE GEISZLER
Telephone: 2093682472
Mailing Name: Not reported
Mailing Address: PO BOX 1270

Year: 2019
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.03600

Year: 2019
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10000

Year: 2019
Gepaid: CAD043274380
TSD EPA ID: CAT080014079

TERESI TRUCKING LLC (Continued) **1000222047**

CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02750

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAT080014079
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00500

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.01800

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.15000

Year: 2018
Gepaid: CAD043274380
TSD EPA ID: CAD044003556
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.22500

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD044003556
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Year: 2017
Gepaid: CAD043274380
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site

TERESI TRUCKING LLC (Continued) **1000222047**

Tons: 0.054

Click this hyperlink while viewing on your computer to access
45 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1998
Gen EPA ID: CAD043274380

Shipment Date: 19981229
Creation Date: 3/15/1999 0:00:00
Receipt Date: 19990105
Manifest ID: 98454125
Trans EPA ID: CAD044003556
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: Not reported
TSDF Alt EPA ID: CAD008252405
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.198
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2009
Gen EPA ID: CAD043274380

Shipment Date: 20090706
Creation Date: 8/12/2009 18:30:28
Receipt Date: 20090710
Manifest ID: 005486693JJK
Trans EPA ID: CAD044003556
Trans Name: RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000646117
Trans Name: CHEMICAL WASTE MANAGEMENT INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.25
Waste Quantity: 500

TERESI TRUCKING LLC (Continued) **1000222047**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090706
Creation Date:	8/20/2009 18:30:09
Receipt Date:	20090715
Manifest ID:	005486694JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080014079
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.068
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090623
Creation Date:	1/8/2010 18:30:16
Receipt Date:	20090626
Manifest ID:	005769443JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0648
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090623

TERESI TRUCKING LLC (Continued) **1000222047**

Creation Date:	1/8/2010 18:30:16
Receipt Date:	20090626
Manifest ID:	005769443JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD043274380
Shipment Date:	20031204
Creation Date:	7/30/2004 18:31:14
Receipt Date:	20031205
Manifest ID:	22897865
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.036
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030910
Creation Date:	8/4/2004 18:30:55
Receipt Date:	20030912
Manifest ID:	22895981
Trans EPA ID:	CAD008252405

TERESI TRUCKING LLC (Continued) **1000222047**

Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAD043274380
Shipment Date:	20140812
Creation Date:	2/9/2015 22:15:16
Receipt Date:	20140814
Manifest ID:	013236470JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140731
Creation Date:	9/13/2014 22:15:20
Receipt Date:	20140731
Manifest ID:	012460342JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556

TERESI TRUCKING LLC (Continued) **1000222047**

Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAD043274380
Shipment Date:	20041216
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041220
Manifest ID:	23862772
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041216
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041220
Manifest ID:	23862772
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

TERESI TRUCKING LLC (Continued) **1000222047**

RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.0792
Waste Quantity:	22
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD043274380
Shipment Date:	20100325
Creation Date:	12/3/2010 18:30:36
Receipt Date:	20100326
Manifest ID:	006489317JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100325
Creation Date:	12/3/2010 18:30:36
Receipt Date:	20100326
Manifest ID:	006489317JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0864
Waste Quantity:	24

TERESI TRUCKING LLC (Continued) **1000222047**

Quantity Unit: G
Additional Code 1: F003
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1997
Gen EPA ID: CAD043274380

Shipment Date: 19970828
Creation Date: 7/23/1998 0:00:00
Receipt Date: 19970903
Manifest ID: 96628654
Trans EPA ID: CAD044003556
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD044429835
Trans Name: Not reported
TSDF Alt EPA ID: CAD044429835
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.198
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAD043274380

Shipment Date: 20150825
Creation Date: 2/9/2016 22:15:26
Receipt Date: 20150828
Manifest ID: 014406269JJK
Trans EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: F005
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.125

TERESI TRUCKING LLC (Continued) **1000222047**

Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150807
Creation Date:	10/5/2015 22:15:27
Receipt Date:	20150807
Manifest ID:	014723951JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150203
Creation Date:	3/30/2015 22:15:06
Receipt Date:	20150203
Manifest ID:	013679742JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

TSDF EPA ID: CAD044003556
Trans Name: RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.06
Waste Quantity: 120
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAD043274380

Shipment Date: 20171019
Creation Date: 10/6/2018 18:30:15
Receipt Date: 20171031
Manifest ID: 017004826JJK
Trans EPA ID: CAR000245050
Trans Name: ECOTRANS RECYCLING
Trans 2 EPA ID: CAR000187922
Trans 2 Name: RUST & SONS
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: F005
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: F003
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171019
Creation Date: 10/6/2018 18:30:15
Receipt Date: 20171031
Manifest ID: 017004826JJK
Trans EPA ID: CAR000245050
Trans Name: ECOTRANS RECYCLING
Trans 2 EPA ID: CAR000187922
Trans 2 Name: RUST & SONS
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID: Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170801
Creation Date:	6/13/2018 18:30:55
Receipt Date:	20170804
Manifest ID:	017145702JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170209
Creation Date:	4/5/2017 18:30:28
Receipt Date:	20170214
Manifest ID:	016645389JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170118
Creation Date:	5/10/2018 18:30:29
Receipt Date:	20170119
Manifest ID:	016238949JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.054
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170118
Creation Date:	5/10/2018 18:30:29
Receipt Date:	20170119
Manifest ID:	016238949JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016

TERESI TRUCKING LLC (Continued) **1000222047**

Gen EPA ID:	CAD043274380
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150825
Creation Date:	2/9/2016 22:15:26
Receipt Date:	20150828
Manifest ID:	014406269JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150807
Creation Date:	10/5/2015 22:15:27
Receipt Date:	20150807
Manifest ID:	014723951JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC

TERESI TRUCKING LLC (Continued) **1000222047**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150204
Creation Date:	7/16/2015 22:15:08
Receipt Date:	20150205
Manifest ID:	013239834JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005

TERESI TRUCKING LLC (Continued) **1000222047**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150203
Creation Date:	3/30/2015 22:15:06
Receipt Date:	20150203
Manifest ID:	013679742JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD043274380
Shipment Date:	19941005
Creation Date:	10/18/1995 0:00:00
Receipt Date:	19941010
Manifest ID:	93591319
Trans EPA ID:	ILD099202681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55

TERESI TRUCKING LLC (Continued) **1000222047**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940427
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940428
Manifest ID:	92881076
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAD043274380
Shipment Date:	20110928
Creation Date:	3/22/2012 20:30:33
Receipt Date:	20111006
Manifest ID:	008713115JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110928
Creation Date:	3/22/2012 20:30:33
Receipt Date:	20111006
Manifest ID:	008713115JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0576
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD043274380
Shipment Date:	20021220
Creation Date:	4/10/2003 10:20:47
Receipt Date:	20021220
Manifest ID:	22064246
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20021220
Creation Date:	3/29/2003 18:31:12

TERESI TRUCKING LLC (Continued) **1000222047**

Receipt Date:	20021223
Manifest ID:	21853606
Trans EPA ID:	CAD044003556
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.162
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAD043274380
Shipment Date:	20130306
Creation Date:	7/17/2013 22:15:13
Receipt Date:	20130307
Manifest ID:	010726424JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130306
Creation Date:	7/17/2013 22:15:13
Receipt Date:	20130307
Manifest ID:	010726424JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER

TERESI TRUCKING LLC (Continued) **1000222047**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0504
Waste Quantity:	14
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD043274380
Shipment Date:	20080710
Creation Date:	12/8/2008 18:30:18
Receipt Date:	20080714
Manifest ID:	003935200JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15846
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080710
Creation Date:	12/8/2008 18:30:18
Receipt Date:	20080714
Manifest ID:	003935200JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0396
Waste Quantity:	11
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD043274380
Shipment Date:	19961217
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961219
Manifest ID:	95297499
Trans EPA ID:	CAT000624247
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960606
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960610
Manifest ID:	95776938
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083186728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	7.2975

TERESI TRUCKING LLC (Continued) **1000222047**

Waste Quantity: 1750
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAD043274380

Shipment Date: 20061214
Creation Date: 9/24/2007 18:30:06
Receipt Date: 20061215
Manifest ID: 000579800JJK
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: F005
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.1296
Waste Quantity: 36
Quantity Unit: G
Additional Code 1: F003
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061214
Creation Date: 9/24/2007 18:30:06
Receipt Date: 20061215
Manifest ID: 000579800JJK
Trans EPA ID: CAD008252405
Trans Name: PACIFIC COAST LACQUER
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: F005
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: F003
Additional Code 2: D001

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD043274380
Shipment Date:	19951221
Creation Date:	9/18/1996 0:00:00
Receipt Date:	19951229
Manifest ID:	95151984
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951130
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951201
Manifest ID:	95131964
Trans EPA ID:	CAD982417255
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD083166728
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.5637
Waste Quantity:	375
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TERESI TRUCKING LLC (Continued) **1000222047**

Additional Info:

Year:	2007
Gen EPA ID:	CAD043274380
Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0468
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071220
Manifest ID:	003332194JJK
Trans EPA ID:	CAD008252405

TERESI TRUCKING LLC (Continued) **1000222047**

Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070711
Creation Date:	2/29/2008 18:30:06
Receipt Date:	20070713
Manifest ID:	001657773JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.054
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070711
Creation Date:	2/29/2008 18:30:06
Receipt Date:	20070713
Manifest ID:	001657773JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

TERESI TRUCKING LLC (Continued) **1000222047**

RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070115
Creation Date:	8/9/2007 18:30:32
Receipt Date:	20070116
Manifest ID:	001700521JJK
Trans EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044003556
Trans Name:	RAMOS ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.18845
Waste Quantity:	285
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	TERESI TRUCKING
Address:	900-1/2 VICTOR RD E
City,State,Zip:	LODI, CA 95241
Site ID:	195538
CERS ID:	T0607700727
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

TERESI TRUCKING LLC (Continued) **1000222047**

HWTS:

Name:	TERESI TRUCKING LLC
Address:	900 1/2 E VICTOR RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 95240
EPA ID:	CAD043274380
Inactive Date:	Not reported
Create Date:	04/10/1987
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 1270
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LODI, CA 952411270
Owner Name:	TERESI TRUCKING LLC
Owner Address:	PO BOX 1270
Owner Address 2:	Not reported
Owner City,State,Zip:	LODI, CA 952411270
Contact Name:	MIKE GEISZLER
Contact Address:	PO BOX 1270
Contact Address 2:	Not reported
City,State,Zip:	LODI, CA 95241
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	38.137516
Longitude:	-121.256157

NAICS:

EPA ID:	CAD043274380
Create Date:	2002-03-14 16:36:26.000
NAICS Code:	4841
NAICS Description:	General Freight Trucking
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2014-12-16 05:37:50.997
NAICS Code:	484121
NAICS Description:	General Freight Trucking, Long-Distance, Truckload
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380

TERESI TRUCKING LLC (Continued) **1000222047**

Create Date:	2014-12-16 05:37:50.997
NAICS Code:	484122
NAICS Description:	General Freight Trucking, Long-Distance, Less Than Truckload
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2014-12-16 05:37:50.997
NAICS Code:	48421
NAICS Description:	Used Household and Office Goods Moving
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

EPA ID:	CAD043274380
Create Date:	2003-10-23 15:27:19.000
NAICS Code:	48423
NAICS Description:	Specialized Freight (except Used Goods) Trucking, Long-Distance
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	Not reported
Facility Name:	TERESI TRUCKING LLC
Facility Address:	900 1/2 E VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952400722

R96 **S.J. MOSQUITO ABATEMENT DIST** **RGA LUST** **S114679907**
NNW **200 NORTH BECKMAN ROAD** **N/A**
1/4-1/2 **LODI, CA**
0.443 mi.
2339 ft. **Site 5 of 5 in cluster R**

Relative: **Lower**
Actual: **52 ft.**

RGA LUST:

Name:	S.J. MOSQUITO ABATEMENT DIST
Address:	200 NORTH BECKMAN ROAD
City:	LODI
State:	LODI

1992 S.J. MOSQUITO ABATEMENT DIST 200 NORTH BECKMAN ROAD

S97 **RIGHTWAY INCORPORATED (HANSEN PROPERTY)** **LUST** **S105488645**
WNW **200 CHEROKEE LN ROAD** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.450 mi.
2374 ft. **Site 1 of 3 in cluster S**

Relative:
Lower

Actual:
52 ft.

LUST:

Name:	RIGHTWAY INCORPORATED (HANSEN PROPERTY)
Address:	200 CHEROKEE LN ROAD
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700852
Global Id:	T0607700852
Latitude:	38.1318059
Longitude:	-121.2604172
Status:	Completed - Case Closed
Status Date:	09/12/2001
Case Worker:	Not reported
RB Case Number:	391034
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	508038
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700852
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700852
Action Type:	Other
Date:	09/29/1998
Action:	Leak Reported
Global Id:	T0607700852
Action Type:	Other
Date:	09/29/1998
Action:	Leak Discovery

LUST:

Global Id:	T0607700852
Status:	Open - Case Begin Date
Status Date:	09/29/1998
Global Id:	T0607700852
Status:	Open - Site Assessment
Status Date:	09/29/1998
Global Id:	T0607700852
Status:	Completed - Case Closed

RIGHTWAY INCORPORATED (HANSEN PROPERTY) (Continued) **S105488645**

Status Date: 09/12/2001

LUST REG 5:
Name: RIGHTWAY INCORPORATED (HANSEN PROPERTY)
Address: 200 CHEROKEE LN ROAD
City: LODI
Region: 5
Status: Case Closed
Case Number: 391034
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: RIGHTWAY INCORPORATED (HANSEN PROPERTY)
Address: 200 CHEROKEE LN ROAD
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700852
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: RIGHTWAY INCORPORATED (HANSEN PROPERTY)
Address: 200 CHEROKEE LN ROAD
City,State,Zip: LODI, CA 95240
Site ID: 194134
CERS ID: T0607700852
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200

RIGHTWAY INCORPORATED (HANSEN PROPERTY) (Continued) **S105488645**

Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

T98 **CHEROKEE SERVICE CENTER** **LUST** **S105035394**
WNW **303 CHEROKEE LN S** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.452 mi.
2386 ft. **Site 1 of 2 in cluster T**

Relative:
Lower

Actual:
52 ft.

LUST:
Name: CHEROKEE SERVICE CENTER
Address: 303 CHEROKEE LN S
City,State,Zip: LODI, CA 95240
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700209
Global Id: T0607700209
Latitude: 38.130684
Longitude: -121.261056
Status: Completed - Case Closed
Status Date: 05/29/1997
Case Worker: Not reported
RB Case Number: 390286
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1319
Potential Media Affect: Soil
Potential Contaminants of Concern: Benzene
Site History: Not reported

LUST:
Global Id: T0607700209
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700209
Action Type: Other
Date: 09/26/1988
Action: Leak Reported

Global Id: T0607700209
Action Type: Other
Date: 09/26/1988
Action: Leak Discovery

LUST:
Global Id: T0607700209

CHEROKEE SERVICE CENTER (Continued) **S105035394**

Status: Open - Case Begin Date
Status Date: 09/26/1988

Global Id: T0607700209
Status: Completed - Case Closed
Status Date: 05/29/1997

LUST REG 5:
Name: CHEROKEE SERVICE CENTER
Address: 303 CHEROKEE LN S
City: LODI
Region: 5
Status: Case Closed
Case Number: 390286
Case Type: Soil only
Substance: Not reported
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: CHEROKEE SERVICE CENTER
Address: 303 CHEROKEE LN S
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700209
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: CHEROKEE SERVICE CENTER
Address: 303 CHEROKEE LN S
City,State,Zip: LODI, CA 95240
Site ID: 197872
CERS ID: T0607700209
CERS Description: Leaking Underground Storage Tank Cleanup Site

CHEROKEE SERVICE CENTER (Continued) **S105035394**

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
- Entity Title: Not reported
- Affiliation Address: 11020 SUN CENTER DRIVE #200
- Affiliation City: RANCHO CORDOVA
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

S99 **ARCO #0760** **LUST** **S104403399**
WNW **225 CHEROKEE LN S** **Cortese** **N/A**
1/4-1/2 **LODI, CA 95240** **CERS**
0.459 mi.
2423 ft. **Site 2 of 3 in cluster S**

Relative: Lower
Actual: 52 ft.

LUST:
- Name: ARCO #0760
- Address: 225 CHEROKEE LN S
- City,State,Zip: LODI, CA 95240
- Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700245
- Global Id: T0607700245
- Latitude: 38.131187081
- Longitude: -121.2607882
- Status: Completed - Case Closed
- Status Date: 12/23/2009
- Case Worker: AMB
- RB Case Number: 390330
- Local Agency: Not reported
- File Location: Regional Board
- Local Case Number: 1314
- Potential Media Affect: Aquifer used for drinking water supply
- Potential Contaminants of Concern: Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
- Site History: Not reported

LUST:
- Global Id: T0607700245
- Contact Type: Regional Board Caseworker
- Contact Name: Alan Buehler
- Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
- Address: 11020 SUN CENTER DRIVE #200
- City: RANCHO CORDOVA
- Email: alan.buehler@waterboards.ca.gov
- Phone Number: Not reported

LUST:
- Global Id: T0607700245
- Action Type: Other
- Date: 09/08/1988
- Action: Leak Reported

- Global Id: T0607700245
- Action Type: RESPONSE

ARCO #0760 (Continued) **S104403399**

Date: 05/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 08/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: REMEDIATION
Date: 09/08/1988
Action: Monitored Natural Attenuation

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 08/27/2009
Action: Staff Letter

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 08/27/2009
Action: Verbal Enforcement

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 12/23/2009
Action: Closure/No Further Action Letter

Global Id: T0607700245
Action Type: RESPONSE
Date: 05/22/2009
Action: Fact Sheets - Public Participation

Global Id: T0607700245
Action Type: RESPONSE
Date: 04/06/2009
Action: Correspondence

Global Id: T0607700245
Action Type: RESPONSE
Date: 01/12/2007
Action: Other Workplan

Global Id: T0607700245
Action Type: RESPONSE
Date: 02/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 12/15/2006
Action: Other Workplan

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 03/12/2009
Action: Verbal Enforcement

ARCO #0760 (Continued) **S104403399**

Global Id: T0607700245
Action Type: Other
Date: 09/01/1988
Action: Leak Stopped

Global Id: T0607700245
Action Type: RESPONSE
Date: 05/22/2009
Action: Correspondence

Global Id: T0607700245
Action Type: RESPONSE
Date: 05/22/2009
Action: Well Destruction Workplan

Global Id: T0607700245
Action Type: RESPONSE
Date: 11/30/2009
Action: Well Destruction Report

Global Id: T0607700245
Action Type: RESPONSE
Date: 11/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 09/26/2006
Action: Staff Letter - #2

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 10/30/2006
Action: Staff Letter - #4

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 01/18/2007
Action: Staff Letter - #6

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 12/21/2006
Action: Staff Letter - #5

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 10/15/2008
Action: Staff Letter

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 04/02/2009
Action: Staff Letter

Global Id: T0607700245
Action Type: ENFORCEMENT

ARCO #0760 (Continued) **S104403399**

Date: 05/29/2009
Action: Staff Letter

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 06/24/2009
Action: Notification - Public Participation Document

Global Id: T0607700245
Action Type: RESPONSE
Date: 11/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 08/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 04/01/2009
Action: Verbal Communication

Global Id: T0607700245
Action Type: RESPONSE
Date: 02/01/2009
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 07/24/2009
Action: Fact Sheets - Public Participation

Global Id: T0607700245
Action Type: RESPONSE
Date: 04/01/2009
Action: Other Report / Document

Global Id: T0607700245
Action Type: RESPONSE
Date: 05/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 11/26/2003
Action: Notice of Responsibility - #1

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 08/28/2007
Action: Technical Correspondence / Assistance / Other - #7

Global Id: T0607700245
Action Type: ENFORCEMENT
Date: 10/12/2006
Action: Referral to Regional Board - #3

ARCO #0760 (Continued) **S104403399**

Global Id: T0607700245
Action Type: Other
Date: 09/01/1988
Action: Leak Discovery

Global Id: T0607700245
Action Type: RESPONSE
Date: 02/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700245
Action Type: RESPONSE
Date: 05/31/2007
Action: Other Report / Document

Global Id: T0607700245
Action Type: RESPONSE
Date: 04/01/2007
Action: Other Report / Document

LUST:
Global Id: T0607700245
Status: Open - Case Begin Date
Status Date: 09/01/1988

Global Id: T0607700245
Status: Open - Remediation
Status Date: 09/01/1988

Global Id: T0607700245
Status: Completed - Case Closed
Status Date: 04/21/1997

Global Id: T0607700245
Status: Open - Reopen Case
Status Date: 11/17/2003

Global Id: T0607700245
Status: Open - Verification Monitoring
Status Date: 05/11/2007

Global Id: T0607700245
Status: Completed - Case Closed
Status Date: 12/23/2009

LUST REG 5:
Name: ARCO #0760
Address: 225 CHEROKEE LN S
City: LODI
Region: 5
Status: Post remedial action monitoring
Case Number: 390330
Case Type: Drinking Water Aquifer affected
Substance: Not reported
Staff Initials: JLB

ARCO #0760 (Continued) **S104403399**

Lead Agency: Regional
Program: LUST
MTBE Code: N/A

CORTESE:

Name:	ARCO #0760
Address:	225 CHEROKEE LN S
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700245
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	ARCO #0760
Address:	225 CHEROKEE LN S
City,State,Zip:	LODI, CA 95240
Site ID:	249196
CERS ID:	T0607700245
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

S100
WNW
1/4-1/2
0.466 mi.
2463 ft.

ARCO STATION #760
225 SOUTH CHEROKEE LANE
LODI, CA

Site 3 of 3 in cluster S

RGA LUST **S114576345**
N/A

Relative:
Lower

Actual:
52 ft.

RGA LUST:
Name: ARCO STATION #760
Address: 225 SOUTH CHEROKEE LANE
City: LODI
State: LODI
1992 ARCO STATION #760 225 SOUTH CHEROKEE LANE

T101
West
1/4-1/2
0.475 mi.
2506 ft.

CHEROKEE SERVICE CENTER
303 SOUTH CHEROKEE
LODI, CA

Site 2 of 2 in cluster T

RGA LUST **S114595108**
N/A

Relative:
Lower

Actual:
52 ft.

RGA LUST:
Name: CHEROKEE SERVICE CENTER
Address: 303 SOUTH CHEROKEE
City: LODI
State: LODI
1992 CHEROKEE SERVICE CENTER 303 SOUTH CHEROKEE

102
North
1/4-1/2
0.484 mi.
2558 ft.

LODI DOOR INC
1220 VICTOR RD
LODI, CA 95240

RCRA-SQG **1000244832**
ENVIROSTOR **CAD009174673**
FINDS
ECHO

Relative:
Lower

Actual:
57 ft.

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	LODI DOOR INC	
Handler Address:		1220 VICTOR RD
Handler City,State,Zip:		LODI, CA 95240
EPA ID:		CAD009174673
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		1
Mailing Address:		PO BOX 256
Mailing City,State,Zip:		LODI, CA 95240
Owner Name:		Not reported
Owner Type:		Not reported

LODI DOOR INC (Continued) **1000244832**

Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

LODI DOOR INC (Continued) **1000244832**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAN AND LARRY ANDERSON
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: LODI DOOR INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800819
Handler Name: LODI DOOR INC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	23599
NAICS Description:	ALL OTHER SPECIAL TRADE CONTRACTORS

LODI DOOR INC (Continued) **1000244832**

NAICS Code: 332321
NAICS Description: METAL WINDOW AND DOOR MANUFACTURING

NAICS Code: 44419
NAICS Description: OTHER BUILDING MATERIAL DEALERS

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850419
Actual Return to Compliance Date: 19870814
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19850419
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19850419
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19870814
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported

LODI DOOR INC (Continued) **1000244832**

Request Agency: Not reported
Former Citation: Not reported

ENVIROSTOR:
Name: LODI DOOR & MFG CO
Address: 1220 E VICTOR RD
City,State,Zip: LODI, CA 95240
Facility ID: 39340006
Status: Refer: RCRA
Status Date: 05/02/1988
Site Code: 100092
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 09
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.13722
Longitude: -121.2511
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: LODI DOOR & METAL CO
Alias Type: Alternate Name
Alias Name: OVERHEAD DOOR, LODI
Alias Type: Alternate Name
Alias Name: CAD009174673
Alias Type: HWTS Identification Code
Alias Name: 100092
Alias Type: Project Code (Site Code)
Alias Name: 39340006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1982
Comments: FACILITY IDENTIFIED FROM PERMIT INTERIM STATUS DOCUMENT.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/30/1987
Comments: SITE SCREENING DONE. SITE HAS MANAGER FOR DEPARTMENT OF HEALTH

LODI DOOR INC (Continued) **1000244832**

SERVICES ACTIVITIES.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

FINDS:
Registry ID: 110002635872

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000244832
Registry ID:	110002635872
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002635872
Name:	LODI DOOR INC
Address:	1220 VICTOR RD
City,State,Zip:	LODI, CA 95240

U103 **ROBERTS PETROLEUM SERVICES** **LUST** **S101592655**
NNW **930 E VICTOR RD** **CPS-SLIC** **N/A**
1/4-1/2 **LODI, CA 95240** **SWEEPS UST**
0.488 mi. **CA FID UST**
2579 ft. **Site 1 of 4 in cluster U** **Cortese**
EMI
Relative: **HAZNET**
Lower **HIST CORTESE**
CERS
Actual: **HWTS**
52 ft.

LUST:

Name:	ROBERTS PETROLEUM SERVICES
Address:	930 VICTOR RD E
City,State,Zip:	LODI, CA 95240
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700678
Global Id:	T0607700678
Latitude:	38.1374718
Longitude:	-121.2557601
Status:	Completed - Case Closed

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Status Date: 09/02/1994
Case Worker: Not reported
RB Case Number: 390850
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1748
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700678
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700678
Action Type: Other
Date: 04/14/1988
Action: Leak Reported

Global Id: T0607700678
Action Type: Other
Date: 05/10/1995
Action: Leak Discovery

LUST:
Global Id: T0607700678
Status: Open - Case Begin Date
Status Date: 04/14/1988

Global Id: T0607700678
Status: Completed - Case Closed
Status Date: 09/02/1994

LUST REG 5:
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
Region: 5
Status: Case Closed
Case Number: 390850
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

SLIC REG 5:

Name:	Woolsey Oil Company (former Roberts Petroleum)
Address:	930 Victor Rd
City:	Lodi
Region:	5
Facility Status:	RI
Unit:	Facility is a Spill or site
Pollutant:	TPH-g
Lead Agency:	JMW
Date Filed:	/ /
Report Date:	10/27/04
Date Added:	5/23/1988
Date Closed:	Not reported

CPS-SLIC:

Name:	VALLEY PACIFIC PETROLEUM
Address:	930 VICTOR ROAD
City,State,Zip:	LODI, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/19/2020
Global Id:	SL375213641
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number:	Not reported
Latitude:	38.1370797653018
Longitude:	-121.25478386879
Case Type:	Cleanup Program Site
Case Worker:	GKR
Local Agency:	Not reported
RB Case Number:	SL375213641
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Benzene, Diesel, Gasoline, MTBE / TBA / Other Fuel Oxygenates, Total Petroleum Hydrocarbons (TPH)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Name:	ROBERTS PETROLEUM SERVICES
Address:	930 E VICTOR RD
City:	LODI
Status:	Not reported
Comp Number:	1748
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	39-000-001748-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Content: DIESEL
Number Of Tanks: 5

Name: ROBERTS PETROLEUM SERVICES
Address: 930 E VICTOR RD
City: LODI
Status: Not reported
Comp Number: 1748
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001748-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: ROBERTS PETROLEUM SERVICES
Address: 930 E VICTOR RD
City: LODI
Status: Not reported
Comp Number: 1748
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001748-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Name: ROBERTS PETROLEUM SERVICES
Address: 930 E VICTOR RD
City: LODI
Status: Not reported
Comp Number: 1748
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001748-000004
Tank Status: Not reported
Capacity: 10000

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: KEROSENE
Number Of Tanks: Not reported

Name: ROBERTS PETROLEUM SERVICES
Address: 930 E VICTOR RD
City: LODI
Status: Not reported
Comp Number: 1748
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001748-000005
Tank Status: Not reported
Capacity: 275
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39000091
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 930 E VICTOR RD
Mailing Address 2: Not reported
Mailing City,St,Zip: LODI 95240
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CORTESE:
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City,State,Zip: LODI, CA 95240
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700678
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA
Year:	2004
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.25558668
Reactive Organic Gases Tons/Yr:	0.25431435
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA
Year:	2005
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2555866799054931299
Reactive Organic Gases Tons/Yr:	.25431435
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA
Year:	2006
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2555866799054931299
Reactive Organic Gases Tons/Yr:	.25431435
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2007
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2555866799054931299
Reactive Organic Gases Tons/Yr:	.25431435
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2008
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.1499256918069650937
Reactive Organic Gases Tons/Yr:	.149111625
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2009
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.126159427038807
Reactive Organic Gases Tons/Yr:	0.12547440634155199
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2010
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.12609465785194801
Reactive Organic Gases Tons/Yr:	0.12540999999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2011
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.11986326793
Reactive Organic Gases Tons/Yr:	0.11921243413
Carbon Monoxide Emissions Tons/Yr:	0

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: VALLEY PACIFIC PETROLEUM SERVICES INC
Address: 930 E VICTOR RD
City,State,Zip: LODI, CA 0
Year: 2012
County Code: 39
Air Basin: SJV
Facility ID: 3968
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.11986326793
Reactive Organic Gases Tons/Yr: 0.11921243413
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: GROUND ZERO ANALYSIS INC
Address: 930 VICTOR RD
City,State,Zip: LODI, CA 95240
Year: 2012
County Code: 39
Air Basin: SJV
Facility ID: 8656
Air District Name: SJU
SIC Code: 4959
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.33288102813
Reactive Organic Gases Tons/Yr: 0.29459970989
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: GROUND ZERO ANALYSIS INC
Address: 930 VICTOR RD
City,State,Zip: LODI, CA 95240
Year: 2013
County Code: 39
Air Basin: SJV
Facility ID: 8656
Air District Name: SJU
SIC Code: 4959
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Total Organic Hydrocarbon Gases Tons/Yr: 0.33288102825
Reactive Organic Gases Tons/Yr: 0.29459971
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: VALLEY PACIFIC PETROLEUM SERVICES INC
Address: 930 E VICTOR RD
City,State,Zip: LODI, CA 0
Year: 2013
County Code: 39
Air Basin: SJV
Facility ID: 3968
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.11296
Reactive Organic Gases Tons/Yr: 0.11296
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: VALLEY PACIFIC PETROLEUM SERVICES INC
Address: 930 E VICTOR RD
City,State,Zip: LODI, CA 0
Year: 2014
County Code: 39
Air Basin: SJV
Facility ID: 3968
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.10657887163
Reactive Organic Gases Tons/Yr: 0.10657887163
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: GROUND ZERO ANALYSIS INC
Address: 930 VICTOR RD
City,State,Zip: LODI, CA 95240
Year: 2014
County Code: 39
Air Basin: SJV
Facility ID: 8656
Air District Name: SJU
SIC Code: 4959

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.0014011303178
Reactive Organic Gases Tons/Yr:	0.0012400003313
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	GROUND ZERO ANALYSIS INC
Address:	930 VICTOR RD
City,State,Zip:	LODI, CA 95240
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	8656
Air District Name:	SJU
SIC Code:	4959
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.42937862825
Reactive Organic Gases Tons/Yr:	0.380000086
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.10664
Reactive Organic Gases Tons/Yr:	0.10664
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	GROUND ZERO ANALYSIS INC
Address:	930 VICTOR RD
City,State,Zip:	LODI, CA 95240
Year:	2016
County Code:	39
Air Basin:	SJV

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Facility ID:	8656
Air District Name:	SJU
SIC Code:	4959
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.072768361582
Reactive Organic Gases Tons/Yr:	0.0644
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.10664
Reactive Organic Gases Tons/Yr:	0.10664
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.10664
Reactive Organic Gases Tons/Yr:	0.10664
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	GROUND ZERO ANALYSIS INC
Address:	930 VICTOR RD
City,State,Zip:	LODI, CA 95240

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	8656
Air District Name:	SJU
SIC Code:	4959
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.014576271186
Reactive Organic Gases Tons/Yr:	0.0129
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	GROUND ZERO ANALYSIS INC
Address:	930 VICTOR RD
City,State,Zip:	LODI, CA 95240
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	8656
Air District Name:	SJU
SIC Code:	4959
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.00017966101695
Reactive Organic Gases Tons/Yr:	0.000159
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.10664
Reactive Organic Gases Tons/Yr:	0.10664
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Name:	GROUND ZERO ANALYSIS INC
Address:	930 VICTOR RD
City,State,Zip:	LODI, CA 95240
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	8656
Air District Name:	SJU
SIC Code:	4959
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	VALLEY PACIFIC PETROLEUM SERVICES INC
Address:	930 E VICTOR RD
City,State,Zip:	LODI, CA 0
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	3968
Air District Name:	SJU
SIC Code:	5541
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.09806
Reactive Organic Gases Tons/Yr:	0.09806
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

HAZNET:

Name:	WOOLSEY OIL INC
Address:	930 VICTOR RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 952410000
Contact:	RON VANCE, DISTRIBUTION MGR
Telephone:	2099489412
Mailing Name:	Not reported
Mailing Address:	166 FRANKWEST CIR

Year:	2001
Gepaid:	CAD982340879
TSD EPA ID:	CAD099452708
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.417

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Year:	2000
Gepaid:	CAD982340879
TSD EPA ID:	CAD099452708
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.834

Year:	1999
Gepaid:	CAD982340879
TSD EPA ID:	CAD099452708
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	2.5854

Year:	1991
Gepaid:	CAD982340879
TSD EPA ID:	CAD980695761
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H01 - Transfer Station
Tons:	0.5838

Year:	1989
Gepaid:	CAD982340879
TSD EPA ID:	CAD009203100
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	4.0657

Additional Info:

Year:	2000
Gen EPA ID:	CAD982340879
Shipment Date:	20000201
Creation Date:	4/4/2000 0:00:00
Receipt Date:	20000204
Manifest ID:	99191062
Trans EPA ID:	CAL000827878
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Additional Info:

Year:	2001
Gen EPA ID:	CAD982340879
Shipment Date:	20010330
Creation Date:	5/31/2001 0:00:00
Receipt Date:	20010403
Manifest ID:	20954522
Trans EPA ID:	CAL000827878
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD982340879
Shipment Date:	19990728
Creation Date:	9/21/1999 0:00:00
Receipt Date:	19990805
Manifest ID:	98499184
Trans EPA ID:	CAL000827878
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.5854
Waste Quantity:	620
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

HIST CORTESE:

edr_fname:	ROBERTS PETROLEUM SERVICE
edr_fadd1:	930 VICTOR
City,State,Zip:	LODI, CA 95240
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390850

CERS:

Name:	ROBERTS PETROLEUM SERVICES
Address:	930 VICTOR RD E
City,State,Zip:	LODI, CA 95240
Site ID:	260358
CERS ID:	T0607700678
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Name:	VALLEY PACIFIC PETROLEUM
Address:	930 VICTOR ROAD
City,State,Zip:	LODI, CA
Site ID:	220827
CERS ID:	SL375213641
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	GEOFFREY RADER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 Sun Center Drive, Suite 200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9164644707,

HWTS:

Name:	WOOLSEY OIL INC
Address:	930 VICTOR RD
Address 2:	Not reported
City,State,Zip:	LODI, CA 95241
EPA ID:	CAD982340879
Inactive Date:	06/30/2004
Create Date:	06/17/1988
Last Act Date:	Not reported

ROBERTS PETROLEUM SERVICES (Continued) **S101592655**

Mailing Name:	Not reported
Mailing Address:	166 FRANKWEST CIR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	STOCKTON, CA 952060000
Owner Name:	NORM CRUM WOOLSEY OIL INC
Owner Address:	166 FRANKWEST CIR
Owner Address 2:	Not reported
Owner City,State,Zip:	STOCKTON, CA 952060000
Contact Name:	RON VANCE, DISTRIBUTION MGR
Contact Address:	166 FRANK WEST CIR
Contact Address 2:	Not reported
City,State,Zip:	STOCKTON, CA 952060000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	38.137562
Longitude:	-121.254029

NAICS:

EPA ID:	CAD982340879
Create Date:	2002-03-14 16:36:27.000
NAICS Code:	44719
NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	1988-06-17 00:00:00
Inactive Date:	2004-06-30 00:00:00
Facility Name:	WOOLSEY OIL INC
Facility Address:	930 VICTOR RD
Facility Address 2:	Not reported
Facility City:	LODI
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952410000

U104 **ROBERTS PETROLEUM SERVICES INC** **RGA LUST** **S114677791**
NNW **930 VICTOR RD E** **N/A**
1/4-1/2 **LODI, CA**
0.488 mi.
2579 ft. **Site 2 of 4 in cluster U**

Relative:
Lower

Actual:
52 ft.

RGA LUST:

Name:	ROBERTS PETROLEUM SERVICES INC
Address:	930 VICTOR RD E
City:	LODI
State:	LODI

1993 ROBERTS PETROLEUM SERVICES INC 930 VICTOR RD E

U105 **ROBERTS PETROLEUM SERVICES** **RGA LUST** **S114677792**
NNW **930 VICTOR RD E** **N/A**
1/4-1/2 **LODI, CA**
0.488 mi.
2579 ft. **Site 3 of 4 in cluster U**

Relative:
Lower

Actual:
52 ft.

RGA LUST:
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2012 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2011 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2010 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2009 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2008 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2007 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2006 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2005 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2003 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2002 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E

ROBERTS PETROLEUM SERVICES (Continued) **S114677792**

City: LODI
State: LODI
2001 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
2000 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
1998 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
1997 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
1996 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
1995 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E
Name: ROBERTS PETROLEUM SERVICES
Address: 930 VICTOR RD E
City: LODI
State: LODI
1994 ROBERTS PETROLEUM SERVICES 930 VICTOR RD E

U106 **ROBERTS PETROLEUM SERVICES INC** **RGA LUST** **S114677790**
NNW **930 EAST VICTOR ROAD** **N/A**
1/4-1/2 **LODI, CA**
0.488 mi.
2579 ft. **Site 4 of 4 in cluster U**

Relative: RGA LUST:
Lower
Name: ROBERTS PETROLEUM SERVICES INC
Actual: Address: 930 EAST VICTOR ROAD
52 ft. City: LODI
State: LODI
1992 ROBERTS PETROLEUM SERVICES INC 930 EAST VICTOR ROAD

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LODI	S106230408	LODI PCE INVESTIGATION	CHURCH ST, LODI AVE, MOKELUMNE		CPS-SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 88

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/21/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/21/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/04/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/07/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 86

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 03/02/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 90

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/20/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/26/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 82

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 82

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 83

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 86

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 86

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/07/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/14/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/09/2022
Next Scheduled EDR Contact: 06/26/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/04/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 79

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/04/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/16/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 82

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 83

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/13/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/01/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 76

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/16/2022
Date Made Active in Reports: 05/13/2022
Number of Days to Update: 86

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/16/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 85

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/04/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 81

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2022
Date Data Arrived at EDR: 01/27/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 77

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/06/2022
Number of Days to Update: 84

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PG&E LODI THURMAN SUBSTATION
1215 THURMAN ST
LODI, CA 95240

TARGET PROPERTY COORDINATES

Latitude (North):	38.129486 - 38ˆ 7’ 46.15’’
Longitude (West):	121.251408 - 121ˆ 15’ 5.07’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	653260.9
UTM Y (Meters):	4221420.0
Elevation:	60 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12021629 LODI NORTH, CA
Version Date:	2018
Northeast Map:	12021627 LOCKEFORD, CA
Version Date:	2018
Southeast Map:	12021665 WATERLOO, CA
Version Date:	2018
Southwest Map:	12021631 LODI SOUTH, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

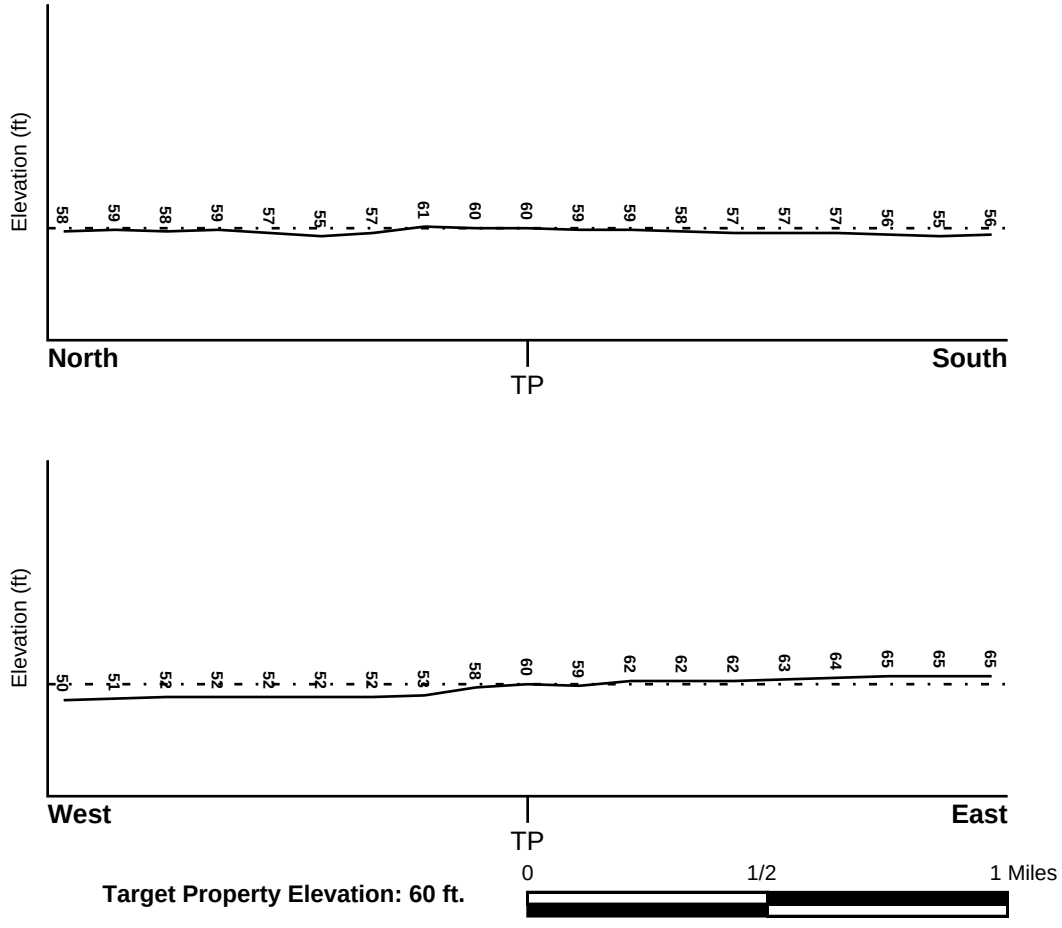
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06077C0169F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06077C0190F	FEMA FIRM Flood data
06077C0330F	FEMA FIRM Flood data
06077C0307F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LODI NORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

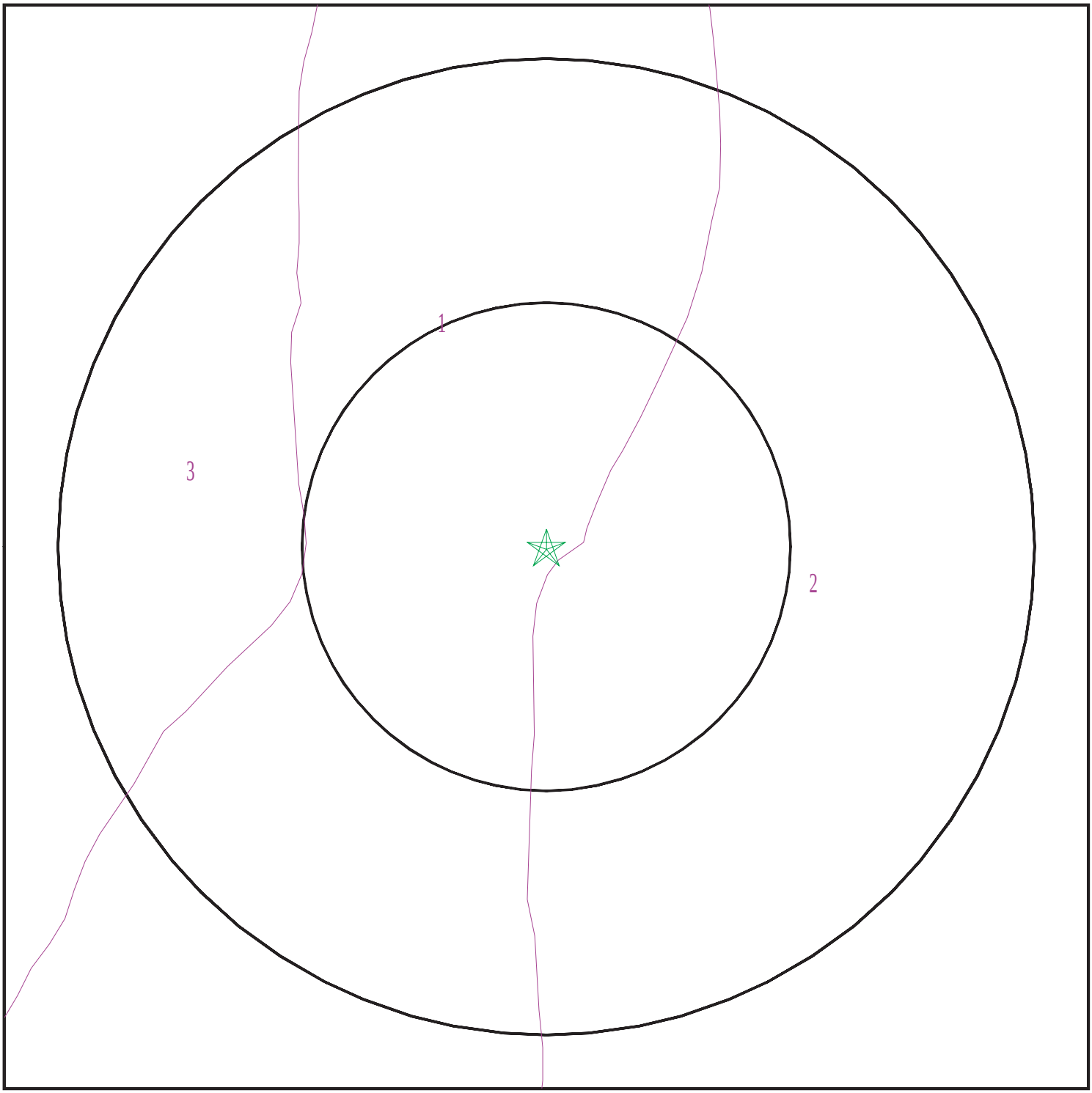
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7000871.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	PG&E Lodi Thurman Substation	CLIENT:	ERM - West, Inc.
ADDRESS:	1215 THURMAN ST Lodi CA 95240	CONTACT:	Arjun Sarkar
		INQUIRY #:	7000871.2s
LAT/LONG:	38.129486 / 121.251408	DATE:	May 31, 2022 4:50 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TOKAY

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
2	18 inches	44 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
3	44 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1

Soil Map ID: 2

Soil Component Name: TOKAY

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
2	18 inches	44 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
3	44 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1

Soil Map ID: 3

Soil Component Name: URBAN LAND

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C7	USGS40000187029	1/4 - 1/2 Mile NNE
13	USGS40000187000	1/4 - 1/2 Mile ESE
G20	USGS40000187031	1/2 - 1 Mile NE
53	USGS40000187034	1/2 - 1 Mile NE
58	USGS40000187026	1/2 - 1 Mile ENE
I61	USGS40000186995	1/2 - 1 Mile ESE
69	USGS40000186973	1/2 - 1 Mile South
83	USGS40000187018	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

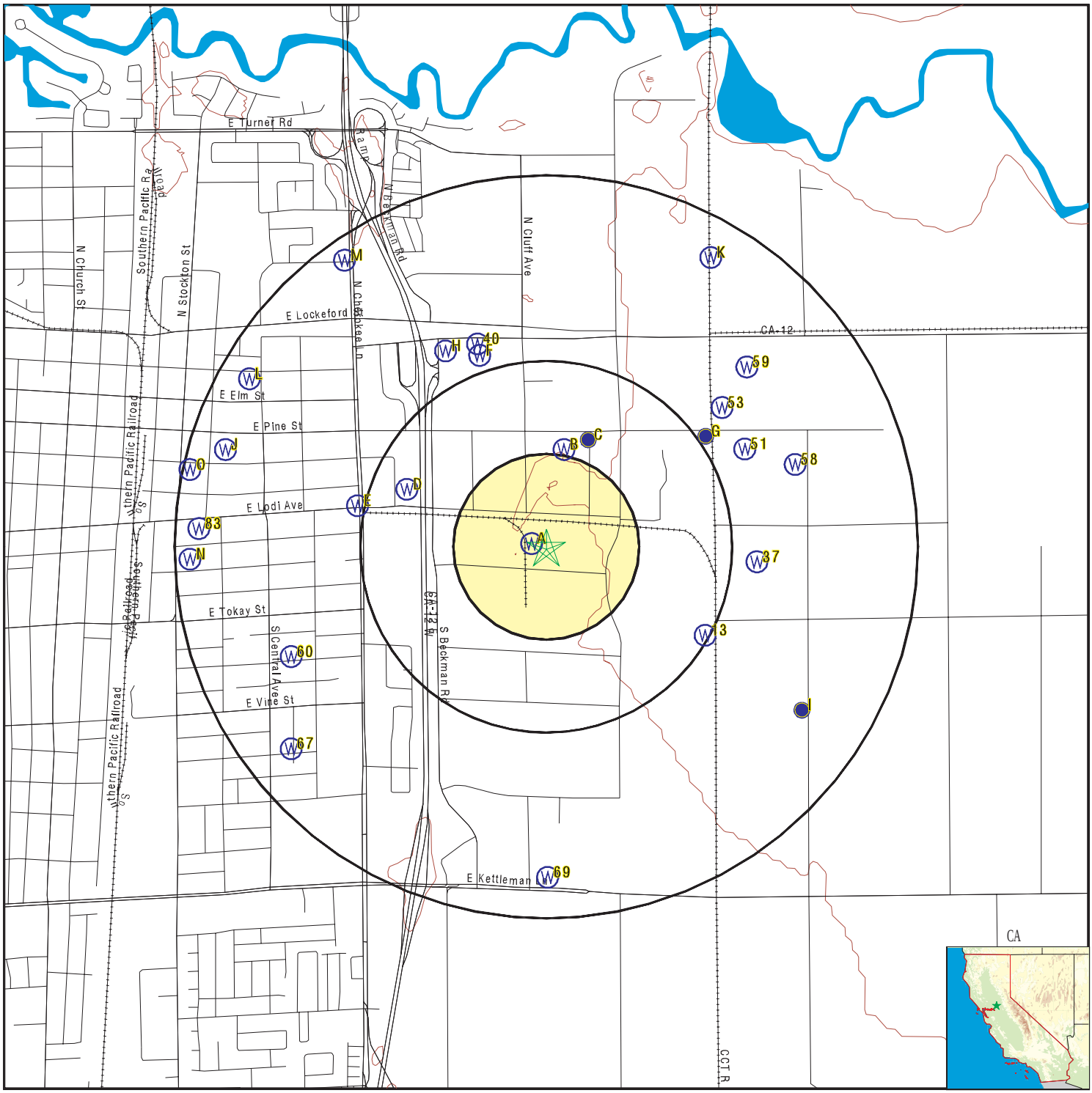
MAP ID	WELL ID	LOCATION FROM TP
A1	CADDW0000004026	0 - 1/8 Mile WSW
A2	CALLNL000000141	0 - 1/8 Mile WSW
A3	19399	0 - 1/8 Mile NW
A4	23149	0 - 1/8 Mile NW
B5	3329	1/4 - 1/2 Mile North
B6	CADDW0000020795	1/4 - 1/2 Mile NNE
C8	CADWR9000038408	1/4 - 1/2 Mile NNE
D9	CADDW0000003699	1/4 - 1/2 Mile WNW
D10	CALLNL000001138	1/4 - 1/2 Mile WNW
D11	3303	1/4 - 1/2 Mile WNW
E12	CAEDF0000007783	1/4 - 1/2 Mile West
F14	CAEDF0000139402	1/4 - 1/2 Mile NNW
F15	CAEDF0000011373	1/2 - 1 Mile NNW
E16	CAEDF0000118798	1/2 - 1 Mile WNW
E17	CAEDF0000045266	1/2 - 1 Mile WNW
E18	CAEDF0000134301	1/2 - 1 Mile WNW
E19	CAEDF0000109563	1/2 - 1 Mile West
G21	CAUSGSN00018670	1/2 - 1 Mile NE
E22	CAEDF0000059700	1/2 - 1 Mile West
E23	CAEDF0000091378	1/2 - 1 Mile WNW
E24	CAEDF0000012100	1/2 - 1 Mile WNW
E25	CAEDF0000087742	1/2 - 1 Mile WNW
F26	CAEDF0000076956	1/2 - 1 Mile NNW
F27	CAEDF0000054837	1/2 - 1 Mile NNW
F28	CAEDF0000142841	1/2 - 1 Mile NNW
F29	CAEDF0000069970	1/2 - 1 Mile NNW
F30	CAEDF0000057127	1/2 - 1 Mile NNW
F31	CAEDF0000114608	1/2 - 1 Mile NNW
F32	CAEDF0000086519	1/2 - 1 Mile NNW
F33	CAEDF0000104030	1/2 - 1 Mile NNW
F34	CAEDF0000109526	1/2 - 1 Mile NNW
F35	CAEDF0000116289	1/2 - 1 Mile NNW
F36	CAEDF0000035548	1/2 - 1 Mile NNW
37	CADWR0000008842	1/2 - 1 Mile East
H38	CAEDF0000087760	1/2 - 1 Mile NNW
H39	CAEDF0000084207	1/2 - 1 Mile NNW
40	CAEDF0000044866	1/2 - 1 Mile NNW
H41	CAEDF0000035634	1/2 - 1 Mile NNW
H42	CAEDF0000133706	1/2 - 1 Mile NNW
H43	CAEDF0000114566	1/2 - 1 Mile NNW
H44	CAEDF0000039406	1/2 - 1 Mile NNW
H45	CAEDF0000086706	1/2 - 1 Mile NNW
H46	CAEDF0000067966	1/2 - 1 Mile NNW
H47	CAEDF0000036665	1/2 - 1 Mile NNW
H48	CAEDF0000118183	1/2 - 1 Mile NNW
H49	CAEDF0000117171	1/2 - 1 Mile NNW
H50	CAEDF0000102138	1/2 - 1 Mile NNW
51	CADDW0000017416	1/2 - 1 Mile ENE
H52	CAEDF0000094350	1/2 - 1 Mile NNW
H54	CAEDF0000003495	1/2 - 1 Mile NNW
H55	CAEDF0000079760	1/2 - 1 Mile NNW
H56	CAEDF0000128966	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H57	CAEDF0000130292	1/2 - 1 Mile NNW
59	CADDW0000020742	1/2 - 1 Mile NE
60	CADWR0000017951	1/2 - 1 Mile WSW
I62	CADWR9000038372	1/2 - 1 Mile SE
J63	CADDW0000022693	1/2 - 1 Mile WNW
J64	CADDW0000015774	1/2 - 1 Mile WNW
J65	CADDW0000015204	1/2 - 1 Mile WNW
J66	CADDW0000020551	1/2 - 1 Mile WNW
67	CADWR0000023854	1/2 - 1 Mile SW
K68	3302	1/2 - 1 Mile NNE
L70	CAEDF0000035413	1/2 - 1 Mile WNW
K71	CADDW0000013661	1/2 - 1 Mile NNE
L72	CAEDF0000080889	1/2 - 1 Mile WNW
L73	CAEDF0000052000	1/2 - 1 Mile WNW
L74	CAEDF0000128986	1/2 - 1 Mile WNW
L75	CAEDF0000023716	1/2 - 1 Mile WNW
J76	3296	1/2 - 1 Mile WNW
J77	3295	1/2 - 1 Mile WNW
J78	3297	1/2 - 1 Mile WNW
J79	3309	1/2 - 1 Mile WNW
J80	3308	1/2 - 1 Mile WNW
M81	CAEDF0000010239	1/2 - 1 Mile NW
M82	CAEDF0000079896	1/2 - 1 Mile NW
M84	CAEDF0000003841	1/2 - 1 Mile NW
M85	CAEDF0000015206	1/2 - 1 Mile NW
M86	CAEDF0000048935	1/2 - 1 Mile NW
M87	CAEDF0000117239	1/2 - 1 Mile NW
M88	CAEDF0000083913	1/2 - 1 Mile NW
M89	CAEDF0000048646	1/2 - 1 Mile NNW
N90	CADWR9000038395	1/2 - 1 Mile West
N91	CADWR0000017770	1/2 - 1 Mile West
M92	CAEDF0000119430	1/2 - 1 Mile NW
O93	CADWR0000013192	1/2 - 1 Mile WNW
O94	CADWR0000007587	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 7000871.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	PG&E Lodi Thurman Substation	CLIENT:	ERM - West, Inc.
ADDRESS:	1215 THURMAN ST Lodi CA 95240	CONTACT:	Arjun Sarkar
		INQUIRY #:	7000871.2s
LAT/LONG:	38.129486 / 121.251408	DATE:	May 31, 2022 4:50 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
WSW
0 - 1/8 Mile
Higher

CA WELLS **CADDW0000004026**

Well ID:	3910004-032	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL NO. 04R - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-032&store_num=		
GeoTracker Data:	Not Reported		

A2
WSW
0 - 1/8 Mile
Higher

CA WELLS **CALLNL000000141**

Well ID:	101145	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	3910004-032	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Helium-3/Helium-4	Results:	.00000251712
Units:	atom ratio	Date:	08/08/2002
Chemical:	Krypton	Results:	.0000000859077
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Xenon	Results:	.0000000127964
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Argon	Results:	.000370161
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Neon	Results:	.000000208327
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Tritium (Hydrogen 3)	Results:	24.66
Units:	pCi/L	Date:	11/07/2002
Chemical:	Helium-4	Results:	.00000025637
Units:	cm3STP/g	Date:	08/08/2002

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A3
NW
0 - 1/8 Mile
Higher | **CA WELLS** | **19399**

Seq:	19399	Prim sta c:	3910004-032
Frds no:	3910004032	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 04R - RAW	Station ty:	WELL/AMBNT
Latitude:	380748.0	Longitude:	1211504.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

Sample date:	08-AUG-17	Finding:	0.99
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-AUG-16	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	10-AUG-15	Finding:	10.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	10-AUG-15	Finding:	9.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	23.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	10-AUG-15	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-15	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	10-AUG-15	Finding:	310.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	10-AUG-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	10-AUG-15	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-AUG-15	Finding:	70.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	10-AUG-15	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-AUG-15	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-15	Finding:	7.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-NOV-14	Finding:	1.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-AUG-14	Finding:	4.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-14	Finding:	1.02
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	1.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	1.15
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	6.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	08-AUG-12	Finding:	78.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	08-AUG-12	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-12	Finding:	11.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	12.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	8.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	22.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	20.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	96.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	290.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	5.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	08-AUG-12	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-AUG-12	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

A4
NW
0 - 1/8 Mile
Higher

CA WELLS **23149**

Seq:	23149	Prim sta c:	J39/004-GACTRTD
Frds no:	3910004036	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 04R - TREATED - GAC	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380748.0	Longitude:	1211504.0
Precision:	3	Status:	AT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		
Sample date:	08-AUG-17	Finding:	0.98
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-AUG-16	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-15	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-NOV-14	Finding:	2.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	02-SEP-14	Finding:	2.8e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-AUG-14	Finding:	5.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	6.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-13	Finding:	8.e-003

Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-JAN-13	Finding:	2.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	14-NOV-12	Finding:	2.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-OCT-12	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-AUG-12	Finding:	5.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

B5
North
1/4 - 1/2 Mile
Higher

CA WELLS **3329**

Seq:	3329	Prim sta c:	03N/07E-06J02 M
Frds no:	3910004015	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 11 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211500.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

B6
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000020795**

Well ID:	3910004-015	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 11 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-015&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C7
NNE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000187029**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E06Q004M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19780201	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C8
NNE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000038408**

State Well #:	03N07E06Q004M	Station ID:	2020
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D9
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000003699**

Well ID:	3910004-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL NO. 01R	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-002&store_num=		
GeoTracker Data:	Not Reported		

D10
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CALLNL000001138**

Well ID:	101142	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	03N/06E-06N03 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Tritium (Hydrogen 3)	Results:	25.92
Units:	pCi/L	Date:	10/30/2002

Chemical:	Helium-3/Helium-4	Results:	.00000248286
Units:	atom ratio	Date:	08/08/2002
Chemical:	Neon	Results:	.000000204666
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Helium-4	Results:	.000000278029
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Krypton	Results:	.0000000893369
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Xenon	Results:	.0000000131429
Units:	cm3STP/g	Date:	08/08/2002
Chemical:	Argon	Results:	.000377673
Units:	cm3STP/g	Date:	08/08/2002

D11
WNW
1/4 - 1/2 Mile
Lower

CA WELLS 3303

Seq:	3303	Prim sta c:	03N/06E-06N03 M
Frds no:	3910004002	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 01R	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380754.0	Longitude:	1211527.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		
Sample date:	17-AUG-17	Finding:	0.84
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-16	Finding:	3.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-AUG-16	Finding:	0.47
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	2.e-002

Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	06-OCT-15	Finding:	4.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-AUG-15	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-AUG-15	Finding:	27.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	11-AUG-15	Finding:	6.1
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	11-AUG-15	Finding:	4.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	11-AUG-15	Finding:	150.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	2.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-AUG-15	Finding:	3.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-AUG-15	Finding:	2.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	12.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	4.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	9.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	42.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	81.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	11-AUG-15	Finding:	66.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	140.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-JUL-15	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	10-APR-15	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	14-JAN-15	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	08-OCT-14	Finding:	3.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-AUG-14	Finding:	2.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-14	Finding:	0.953
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	0.748
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	1.26
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-JUL-14	Finding:	4.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-APR-14	Finding:	6.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	07-OCT-13	Finding:	5.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	01-AUG-13	Finding:	2.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	5.6e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-OCT-12	Finding:	7.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	01-AUG-12	Finding:	3.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	3.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-AUG-12	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-AUG-12	Finding:	28.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	01-AUG-12	Finding:	140.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	2.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-AUG-12	Finding:	4.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	13.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	4.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	9.1
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	41.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	78.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	01-AUG-12	Finding:	64.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	160.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	2.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-JUL-12	Finding:	5.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		

E12
West
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000007783**

Well ID:	T0607700245-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-9		

13
ESE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000187000**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E07H004M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19701116	Well Depth:	150
Well Depth Units:	ft	Well Hole Depth:	215
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1970-11-16
Feet below surface:	60.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F14
NNW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000139402**

Well ID:	SL375213641-MW10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW10		

F15
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000011373**

Well ID:	SL375213641-MW11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW11		

E16
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000118798**

Well ID:	T0607700245-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-4		

E17
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000045266**

Well ID:	T0607700245-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E18
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000134301**

Well ID:	T0607700245-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-2		

E19
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000109563**

Well ID:	T0607700245-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-7		

G20
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000187031**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E06R006M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730201	Well Depth:	346
Well Depth Units:	ft	Well Hole Depth:	440
Well Hole Depth Units:	ft		

G21
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00018670**

Well ID:	USGS-380802121143301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-380802121143301	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-380802121143301&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E22
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000059700**

Well ID:	T0607700245-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-8		

E23
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000091378**

Well ID:	T0607700245-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-3		

E24
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000012100**

Well ID:	T0607700245-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-1		

E25
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000087742**

Well ID:	T0607700245-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700245&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700245&assigned_name=MW-6		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F26
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000076956**

Well ID:	SL375213641-MW1D	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1D
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW1D&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW1D		

F27
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000054837**

Well ID:	SL375213641-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW3		

F28
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000142841**

Well ID:	SL375213641-MW14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW14		

F29
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000069970**

Well ID:	SL375213641-MW6R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW6R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW6R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW6R		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F30
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000057127**

Well ID:	SL375213641-MW13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW13		

F31
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000114608**

Well ID:	SL375213641-MW9R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW9R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW9R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW9R		

F32
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000086519**

Well ID:	SL375213641-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW5		

F33
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000104030**

Well ID:	SL375213641-MW8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F34
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000109526**

Well ID:	SL375213641-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW4		

F35
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000116289**

Well ID:	SL375213641-MW7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW7		

F36
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000035548**

Well ID:	SL375213641-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW2		

37
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000008842**

Well ID:	03N07E06R006M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N07E06R006M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N07E06R006M&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H38
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000087760**

Well ID:	T0607700370-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-10		

H39
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000084207**

Well ID:	T0607700370-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-7		

40
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000044866**

Well ID:	SL375213641-MW12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL375213641&assigned_name=MW12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL375213641&assigned_name=MW12		

H41
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000035634**

Well ID:	T0607700370-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-14		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H42
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000133706**

Well ID:	T0607700370-MW-15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-15		

H43
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000114566**

Well ID:	T0607700370-MW-13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-13		

H44
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000039406**

Well ID:	T0607700370-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-3		

H45
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000086706**

Well ID:	T0607700370-MW-12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-12		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H46
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000067966**

Well ID:	T0607700370-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-9		

H47
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000036665**

Well ID:	T0607700370-P-2	Well Type:	MONITORING
Source:	EDF	Other Name:	P-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=P-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=P-2		

H48
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000118183**

Well ID:	T0607700370-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-4		

H49
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000117171**

Well ID:	T0607700370-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-6		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H50
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000102138**

Well ID:	T0607700370-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-2		

51
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000017416**

Well ID:	3910004-041	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL NO. 10C	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-041&store_num=		
GeoTracker Data:	Not Reported		

H52
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000094350**

Well ID:	T0607700370-P-1	Well Type:	MONITORING
Source:	EDF	Other Name:	P-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=P-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=P-1		

53
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000187034**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E05M006M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19590101	Well Depth:	460
Well Depth Units:	ft	Well Hole Depth:	565
Well Hole Depth Units:	ft		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H54
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000003495**

Well ID:	T0607700370-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-1		

H55
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000079760**

Well ID:	T0607700370-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-11		

H56
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000128966**

Well ID:	T0607700370-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-5		

H57
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000130292**

Well ID:	T0607700370-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700370&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700370&assigned_name=MW-8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

58
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000187026**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E05N001M		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	98
Well Hole Depth Units:	ft		

59
NE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000020742**

Well ID:	3901197-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901197-001&store_num=		
GeoTracker Data:	Not Reported		

60
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000017951**

Well ID:	03N06E12B001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N06E12B001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N06E12B001M&store_num=		
GeoTracker Data:	Not Reported		

I61
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000186995**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N007E08E002M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19400101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	285
Well Hole Depth Units:	ft		

I62
SE **CA WELLS** **CADWR9000038372**
1/2 - 1 Mile
Higher

State Well #:	03N07E08E002M	Station ID:	2021
Well Name:	03N07E08E002	Basin Name:	Eastern San Joaquin
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	285	Well Completion Rpt #:	Not Reported

J63
WNW **CA WELLS** **CADDW0000022693**
1/2 - 1 Mile
Lower

Well ID:	3910004-005	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 04 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-005&store_num=		
GeoTracker Data:	Not Reported		

J64
WNW **CA WELLS** **CADDW0000015774**
1/2 - 1 Mile
Lower

Well ID:	3910004-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-001&store_num=		
GeoTracker Data:	Not Reported		

J65
WNW **CA WELLS** **CADDW0000015204**
1/2 - 1 Mile
Lower

Well ID:	3910004-008	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 06A - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-008&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J66
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000020551**

Well ID:	3910004-004	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 03 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-004&store_num=		
GeoTracker Data:	Not Reported		

67
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000023854**

Well ID:	03N06E12G001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N06E12G001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N06E12G001M&store_num=		
GeoTracker Data:	Not Reported		

K68
NNE
1/2 - 1 Mile
Higher

CA WELLS **3302**

Seq:	3302	Prim sta c:	03N/06E-06H03 M
Frds no:	3910004013	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 10R - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	380827.0	Longitude:	1211434.0
Precision:	3	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

69
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000186973**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	003N007E07P003M	Type:	Well
Description:	Not Reported	HUC:	18020109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720414	Well Depth:	174
Well Depth Units:	ft	Well Hole Depth:	190
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1972-04-14
Feet below surface:	65.00	Feet to sea level:	Not Reported
Note:	Not Reported		

L70
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000035413**

Well ID:	T0607700007-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700007&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700007&assigned_name=MW3		

K71
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000013661**

Well ID:	3910004-013	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 10R - ABANDONED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910004-013&store_num=		
GeoTracker Data:	Not Reported		

L72
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000080889**

Well ID:	T0607700007-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700007&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700007&assigned_name=MW2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L73
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000052000**

Well ID:	T0607700007-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700007&assigned_name=MW5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700007&assigned_name=MW5		

L74
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000128986**

Well ID:	T0607700007-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700007&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700007&assigned_name=MW1		

L75
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000023716**

Well ID:	T0607700007-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700007&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700007&assigned_name=MW4		

J76
WNW
1/2 - 1 Mile
Lower

CA WELLS **3296**

Seq:	3296	Prim sta c:	03N/06E-01L02 M
Frds no:	3910004005	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 04 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

J77
WNW
1/2 - 1 Mile
Lower

CA WELLS 3295

Seq:	3295	Prim sta c:	03N/06E-01L01 M
Frds no:	3910004003	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211600.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		
Sample date:	15-AUG-17	Finding:	1.55
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-17	Finding:	1.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-17	Finding:	1.16
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-AUG-17	Finding:	1.05
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-AUG-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	14-AUG-17	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	6.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	8.1
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-AUG-17	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-AUG-17	Finding:	56.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	14-AUG-17	Finding:	160.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	14-AUG-17	Finding:	66.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	14-AUG-17	Finding:	190.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	1.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-AUG-17	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-AUG-17	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-AUG-17	Finding:	280.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	31-AUG-16	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	11-NOV-15	Finding:	1.9
Chemical:	CHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-SEP-15	Finding:	1.2
Chemical:	CHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-15	Finding:	6.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-NOV-14	Finding:	1.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-AUG-14	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	95.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	21.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	6.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	8.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-AUG-14	Finding:	0.17
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	19-AUG-14	Finding:	3.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-AUG-14	Finding:	57.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	19-AUG-14	Finding:	1.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-AUG-14	Finding:	5.7e-002
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-14	Finding:	7.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-AUG-14	Finding:	3.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-AUG-14	Finding:	280.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	9.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-MAR-13	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-FEB-13	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-JAN-13	Finding:	0.72
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-DEC-12	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-NOV-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-12	Finding:	0.91
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-SEP-12	Finding:	2.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	04-SEP-12	Finding:	0.85
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-AUG-12	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-AUG-12	Finding:	0.89
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-AUG-12	Finding:	8.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-12	Finding:	2.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUL-12	Finding:	0.89
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	0.81
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	0.71
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-APR-12	Finding:	0.67
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-APR-12	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-APR-12	Finding:	0.86
Chemical:	CHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-APR-12	Finding:	1.2
Chemical:	CHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-APR-12	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	05-APR-12	Finding:	0.56
Chemical:	CHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-12	Finding:	0.59
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-APR-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-FEB-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JAN-12	Finding:	2.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

J78
WNW
1/2 - 1 Mile
Lower

CA WELLS 3297

Seq:	3297	Prim sta c:	03N/06E-01P01 M
Frds no:	3910004004	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 03 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

J79
WNW
1/2 - 1 Mile
Lower

CA WELLS 3309

Seq:	3309	Prim sta c:	03N/06E-12G01 M
Frds no:	3910004008	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 06A - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

J80
WNW
1/2 - 1 Mile
Lower

CA WELLS 3308

Seq:	3308	Prim sta c:	03N/06E-12B01 M
Frds no:	3910004001	County:	39
District:	10	User id:	PTA
System no:	3910004	Water type:	G
Source nam:	WELL 01 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	380800.0	Longitude:	1211600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910004	System nam:	Lodi, City Of
Hqname:	Not Reported	Address:	1331 SOUTH HAM LANE
City:	LODI	State:	CA
Zip:	95242	Zip ext:	Not Reported
Pop serv:	53903	Connection:	20963
Area serve:	LODI		

M81
NW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000010239

Well ID:	T0607700146-PT-MW7	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW7		

M82
NW
1/2 - 1 Mile
Lower

CA WELLS CAEDF0000079896

Well ID:	T0607700146-PT-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

83
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000187018**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003N006E12B001M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19210101	Well Depth:	320
Well Depth Units:	ft	Well Hole Depth:	410
Well Hole Depth Units:	ft		

M84
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000003841**

Well ID:	T0607700146-PT-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW3		

M85
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000015206**

Well ID:	T0607700146-PT-MW8	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW8		

M86
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000048935**

Well ID:	T0607700146-PT-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M87
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000117239**

Well ID:	T0607700146-PT-MW9	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW9		

M88
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000083913**

Well ID:	T0607700146-PT-MW6	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW6		

M89
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000048646**

Well ID:	T0607700146-PT-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW4		

N90
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000038395**

State Well #:	Not Reported	Station ID:	50745
Well Name:	Lodi MW-13	Basin Name:	Eastern San Joaquin
Well Use:	Observation	Well Type:	Single Well
Well Depth:	62	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N91
West
1/2 - 1 Mile
Lower | **CA WELLS** | **CADWR0000017770**

Well ID:	03N06E01P001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N06E01P001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N06E01P001M&store_num=		
GeoTracker Data:	Not Reported		

M92
NW
1/2 - 1 Mile
Lower | **CA WELLS** | **CAEDF0000119430**

Well ID:	T0607700146-PT-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	PT-MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700146&assigned_name=PT-MW5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700146&assigned_name=PT-MW5		

O93
WNW
1/2 - 1 Mile
Lower | **CA WELLS** | **CADWR0000013192**

Well ID:	03N06E01L002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N06E01L002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N06E01L002M&store_num=		
GeoTracker Data:	Not Reported		

O94
WNW
1/2 - 1 Mile
Lower | **CA WELLS** | **CADWR0000007587**

Well ID:	03N06E01L001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03N06E01L001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03N06E01L001M&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95240	18	2

Federal EPA Radon Zone for SAN JOAQUIN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95240

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.600 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX E PROFESSIONAL PROFILES

Deborah S. Lind, P.G., E.I.T.

Partner

Ms. Deborah Lind is a Partner with ERM based in Walnut Creek, California. She has over 24 years of professional experience related to site investigation and remediation, environmental compliance, legal services, environmental due diligence, sustainability, and strategic consulting for various private and public sectors. Her work has involved potentially responsible party (PRP) projects, operationally sensitive work environments, and positive working relationships with regulators at the federal, state, and local levels. She has a diverse, hands-on background in geology and engineering, and significant experience in a range of disciplines, including site investigation and characterization, monitoring/remediation wells, remedial treatment systems, risk assessment, construction management, due diligence, general environmental compliance, industrial hygiene, and strategic regulatory and client communications.



Experience: 24 years' experience in power, transportation, manufacturing, metals, and chemical sectors

Email: debbie.lind@erm.com

LinkedIn: https://www.linkedin.com/in/debbie-lind-86b09335/

Education

- Geological Engineering; Masters of Science; Michigan Tech, 1997
- Engineering Geology; Bachelor of Science; UCLA 1995

Professional Affiliations and Registrations

- Professional Geologist, California (#7126)
- Engineer-in-Training, California (#XE103772)

Languages

- English, native speaker

Fields of Competence

- Environmental program management
- Geologic and hydrogeologic site investigations
- Human health and ecological risk assessments
- RI/FS programs
- Remedial action programs
- Regulatory negotiations and communication
- Multi-PRP Group negotiations
- Air quality and water monitoring programs
- Environmental liability cost evaluations
- General environmental, health & safety compliance
- Project management
- Litigation support
- Due diligence
- Property redevelopment

Key Industry Sectors

- Power
- Transportation
- Manufacturing
- Mining and Metals
- Technology, media, and telecommunications
- Oil and Gas

Key Projects

Airline Environmental Safety Program
Oversaw scoping, budgeting, and implementation of compliance auditing and consulting, initial site assessments, site investigations, remedial action program development and implementations, air quality assessment and reporting, and corporate sustainability reporting. Primary responsibility was to ensure that project objectives were met. Monitored schedule, budget progress, and compliance with all health and safety requirements, and served as primary contact with client's program managers. Projects included:

- Development of environmental compliance documents, including hazardous waste business plans, spill prevention control and countermeasure plans, storm water pollution prevention plans, storm water management plans, and environmental compliance manuals.
- Phase I/II environmental site assessments;
- In-depth comprehensive site investigations;
- Investigations of fuel hydrant lines and underground storage tanks;
- Soil gas, geophysical, and asbestos surveys;
- Equipment data inventories for greenhouse gas assessments;
- Remedial action option evaluations and cost estimation;
- Remedial design and implementation;
- Environmental compliance management system development and implementation;
- Third-party environmental audits;
- Aircraft potable water supply compliance sampling; and
- Air compliance reporting.

Utility Due Diligence/Transaction Program
Directed due diligence projects for acquisition and divestiture at over 100 sites across PG&E's footprint, including surplus properties. Work often performed on an expedited schedule and at sites, many of which were operationally sensitive, throughout Northern California. Work performed for multiple PG&E Lines of Business and includes Phase I and II evaluations, associated remedial action implementation, and strategic support for the individual transactions.

RCRA Site Assessment and Remediation
Responsible for the overall strategy and execution of investigations, risk assessments, and remediation of a 72-acre former waste water treatment unit impacted with heavy metals, petroleum, and PAHs. Challenges included water management and permitting with various resource agencies including DTSC, USACE, CDFW, and USFWS. Implementing various technologies in support of Corrective Measures Study including phytoremediation and mechanical aeration studies.

Divestiture-Driven Remedial Program
Oversaw scoping, budgeting, implementation and stakeholder communications for investigation and remedial action implementation of a former electronics manufacturing facility in San Jose California. Assessment included in situ hi-resolution characterization, soil vapor studies and chemical injectant pilot testing. Remedial actions included permeable reactive barrier injections, in-situ bio-remediation injections, a trenched hydraulic barrier wall (33 ft depth), and two soil vapor extraction systems. Remedial actions implemented concurrently with redevelopment of 8-acre site and construction of new warehouse.
Work also included assessment and management of environmental impacts to the adjacent industrial and residential community from historical site activities. Project team delineated impacts, managed public relations, interfaced with commercial property owners and tenants, and safely performed drilling investigations in crowded public rights-of-way.

Construction Safety Oversight for Data Center Development
Managed delivery of safety oversight during construction of a data center at a 2-acre site contaminated with VOCs. Developed monitoring procedures for excavation through soils impacted with TCE, PCE, and VC, supported soil sampling and disposal/re-use evaluation, waste disposal, and QA/QC of vapor mitigation system installation.

Refinery Fenceline Monitoring
Oversaw benzene fenceline monitoring programs required under 40 CFR 63, Subpart CC, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (NESHAPS). The projects require the deployment and the collection passive sampling tubes every 14 days. The sampling tubes are then sent to an environmental laboratory for analysis. ERM provides the refineries with the measured benzene concentrations for each sampling location, both graphically and spatially on georeferenced maps.

Environmental Services Program Manager
Managed Removal Action Workplan (RAW) development and implementation for arsenic in soil along BART Warm Springs Extension in Fremont, CA. Other example BART projects included hazardous waste disposal, tank integrity assessments, storm water sampling, MS4 program development and support, emergency response, and soil management plan development, and encompassed the entirety of the BART system footprint in the San Francisco Bay Area.

PCB Assessment and Remediation Program
Directed ongoing investigation, risk assessment, and remediation project for management of PCBs at an airline maintenance station. Project included strategic negotiations with EPA regarding management of PCBs in building materials, potential accumulation in the facility drainage system, and risk-based decision making for remediation.

Multiphase RI/FS/RAP
Managed multiphase RI/FS/RAP of alluvium-fractured bedrock aquifer impacted with DNAPL and dissolved-phase chlorinated VOCs, emanating from beneath airline maintenance station at San Francisco International Airport. Performed multilevel well installations, geophysical logging, aquifer testing, and assessments of complex groundwater flow conditions including use of a seismic reflection survey, groundwater modeling, and extensive groundwater data collection. Site involved transient groundwater flow influences related to nearby water supply wells, tides, and seasonal effects. Evaluated VOC plume and natural attenuation for RI/FS/RAP program. Successfully negotiated RWQCB-approval of RAP consisting of mobile high vacuum extraction of free product and monitored natural attenuation for the dissolved plume.

Environmental Service Program Manager
Directed ERM's portfolio of services for a major airline at Los Angeles International Airport. Chemicals of concern included petroleum hydrocarbons, chlorinated solvents, asbestos, lead-based paint, and metals. Work included investigation, risk assessment, feasibility study, design, MNA, indoor air evaluation, and remediation, hazardous materials abatement, air quality and general environmental compliance services, and site redevelopment support. Projects completed for the full range of airport facilities including large aircraft maintenance facilities, cargo and ground service equipment facilities, and active terminals with RWQCB oversight.

Contaminated Site Investigation
Managed investigation of gasoline and MTBE contamination in a fractured granitic aquifer at Caltrans maintenance station in Sierra Nevada, CA. Conducted extensive drilling, downhole geophysical surveys, aquifer testing, and groundwater monitoring. Performed exploratory borings and geophysics on borings to evaluate lithography, and sampled groundwater from four fracture zones using dual-packer sampling system. Evaluated geology, groundwater flow, and contaminant transport to assess potential threats to nearby water supply wells and a stream. Negotiated with Regional Water Quality Control Board (RWQCB) on behalf of facility owner.

Fuel Hydrant Site Investigation and Remediation
Project Manager for investigation and remediation of a former fuel hydrant system at San Francisco International Airport. Developed sampling and analysis plan based on previous investigation results, facility records, and historical aerial photographs. Used geophysical surveys to identify former hydrant system features to accurately determine sampling locations. Used air vacuum excavation methods to provide clearance of subsurface utilities and

successfully place a number of wells within the backfill of the storm drain system. Evaluated and reported on the potential for the storm drain system to be a preferential pathway for the migration of product and impacted groundwater, as well as the potential for a passive subgrade drainage system to influence groundwater flow. Interfaced with representatives of other potentially responsible parties to coordinate oversight of field activities for litigation support. Maintained high QA/QC standards to ensure that data collected was technically defensible to support potential litigation. Assisted in management and implementation of an interim remedial action plan (IRAP) consisting of passive skimming, vacuum enhanced recovery, dual-pump drawdown, and high vacuum extraction for free product recovery. Implemented mobile high vacuum extraction remediation program under RWQCB-oversight.

RI/FS/RAP Task Manager
Task Manager and Senior Technical Reviewer for RI/FS/RAP program at Sacramento Rail Yard. Key team member for 12 years, during which responsibilities included the following:

- Investigated extent of VOCs, polynuclear aromatic compounds, TPH, and metals in soil and groundwater at 240-acre state. Evaluated site stratigraphy, hydrogeologic conditions, and chemical migration. Managed and reported on RI/FS, Risk Assessment, and Remedial Action Plan programs.
- Managed remediation program to address VOCs in soil and groundwater. Program consisted of soil vapor extraction (SVE), air sparging, and groundwater extraction.
- Project geologist for design and implementation of pilot study to mobilize light nonaqueous phase liquids (LNAPL) trapped beneath clay layer in subsurface of portion of the site. Performed cone penetrometer testing, installed small diameter wells, conducted air injection events, and prepared technical memorandum evaluating effectiveness of pilot study.
- Managed, planned, and implemented well abandonment project in preparation for extensive soil remediation project.
- Managed, planned, implemented, and reported on pilot study to evaluate applicability of low-flow sampling.
- Provided technical oversight for groundwater monitoring program with 200+ wells screened in four separate aquifers over an 800-acre area. Included negotiations with RWQCB for development and revision of Monitoring and Reporting Plan. Negotiated reductions in groundwater monitoring and reporting frequency, and of required analytes.
- Managed development and implementation of RAW for portion of site to facilitate site redevelopment, including realignment of main rail line. Interfaced with DTSC and RWQCB to expedite document-approval to meet client's development schedule and to coordinate the public review process.
- Evaluated effectiveness of groundwater extraction system designed to limit downgradient movement of VOC-impacted groundwater plume as part of interim remedial measure at California Superfund rail yard site in Sacramento. Prepared groundwater monitoring reports evaluating groundwater data to assess system effectiveness and adverse impacts of dewatering system.

Superfund Site Impact Assessment
Assessed potential impacts associated with wastewater discharge into unlined evaporation ponds at a Nevada Superfund site. Compiled and evaluated historical groundwater data, generated data tables and figures summarizing environmental conditions, and highlighted detections higher than applicable action levels for constituents of concern (metals, pesticides, SVOCs, and radionuclides). Oversaw quality assurance/quality control of data presentation. Co-authored environmental conditions investigation report, interim data deliverables, and documents associated with groundwater quality evaluation program.

Litigation Support
Provided expert evaluations for lawsuit involving citizens group and aggregate mining operation and potential impacts to Yuba River in California. Represented mining entity by assessing complaints, evaluating hydrology of integrated groundwater-surface water system, and water quality sampling. Successfully addressed concerns to extent that lawsuit was dropped.

Publications

- Gray, B, LePage, B, Warner, J, Lind, D, Dyer, R, Morris, K. Phytoremediation and Rhizodegradation Pilot Studies at a 73-Acre Former Wastewater Pond in Northern California. (Platform Presentation). The Eleventh International Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds, Palm Springs, CA. April 2018.
- Lind, D, Chemburkar, A, Mucha, K, Warner, J, Tisoncik, D. Sequential In-Situ Bioremediation, Physical Extraction, Chemical Oxidation and Reduction of Solvents and Hydrocarbons (Platform Presentation). The Eighth International Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2012.
- Yi, C., Bjorklund, B., Lind, D., Chemburkar, A., Use of High Resolution Site Investigation for Remedial Design of Permeable Reactive Barriers (Poster). The Eighth International Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2012.

Arjun Sarkar

Consultant I, Scientist

Arjun Sarkar has 9 months of transaction due diligence experience. He is a Consultant I in ERM's Transaction Advisory practice.

Arjun is an emerging consultant in transaction due diligence, having experience with site assessment and investigation for a variety of facilities in the Bay Area region. His work is focused on due diligence and EHS auditing for industries including biomedical, energy, and semi-conductor.



Experience: 9 months' experience in environmental consulting

- Consulting Intern, Basics Environmental Inc., 2021 (3 months)
- Consultant I, ERM, 2021-2022 (5 months)

LinkedIn: https://www.linkedin.com/in/arjun-sarkar-4a881b149

Email: arjun.sarkar@erm.com

Education

- University of California, Berkeley, May 2021
  Bachelor of Science in Environmental Economics and Policy

Languages

- English, native speaker

Fields of Competence

- Environmental due diligence
- Site investigation and remediation

Key Industry Sectors

- Government

Key Projects

Due Diligence Consultant, Phase I - Acquisition of office complex for a biomedical company (Confidential), Milpitas, California
Delivered the environmental risk assessment and due diligence of the 3-building office complex for the confidential biomedical company. Arjun managed the site assessment including Phase I reporting and investigation and collaborated with local colleagues to prepare the final report for the client.

Key Projects Prior to Joining ERM

Student Environmental Resource Center Intern, CO2 Reduction and Education Team - UC Berkeley

- Designed information and strategy guides to increase local awareness of carbon neutrality and sustainability goals, disseminated through K-12 schools in Berkeley and Oakland
- Launched a campus-wide initiative to market institutional plans for carbon neutrality by 2025, to better prepare campus for climate adaptation and resilience
- Earned additional grant through institutional efforts to strengthen and support SERC activities for future years

California Strategic Growth Council – State of California
Policy Intern – Sacramento, California

- Supported Senior Advisor for Economic Development and Transportation with transportation project case studies and transportation funding analysis to feed into the California Transportation Plan (AB 285)
- Produced a literature review of research for AB 285 relating to the California Transportation Plan, 18 Sustainable Community Strategies, and related state legislation
- Produced a detailed report of transportation project development in the Sacramento region
- Performed an analysis of CTP, SCS, and alternative planning strategies and determining how implementation might influence a statewide transportation system

Basics Environmental, Inc.
Environmental Consulting Intern – Oakland, California

- Conduct research on historical information as part of the due diligence process for real estate and financial transactions to ensure compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Achieved by using Sanborn Fire Insurance Maps, city directories, U.S.G.S. topographic maps, and Aerial Photographs.
- Perform environmental site inspections to identify any presence of hazardous materials at given locations and identified if a Phase I Environmental Site Assessment would be required.
- Gather information to produce Environmental Transaction Screens, technical environmental reports for financial institutions.

Appendix G3
FAA Determination of No Hazard to Air Navigation

Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7183-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-1
Location:	Woodbridge, CA
Latitude:	38-07-47.46N NAD 83
Longitude:	121-14-53.87W
Heights:	60 feet site elevation (SE)
	120 feet above ground level (AGL)
	180 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

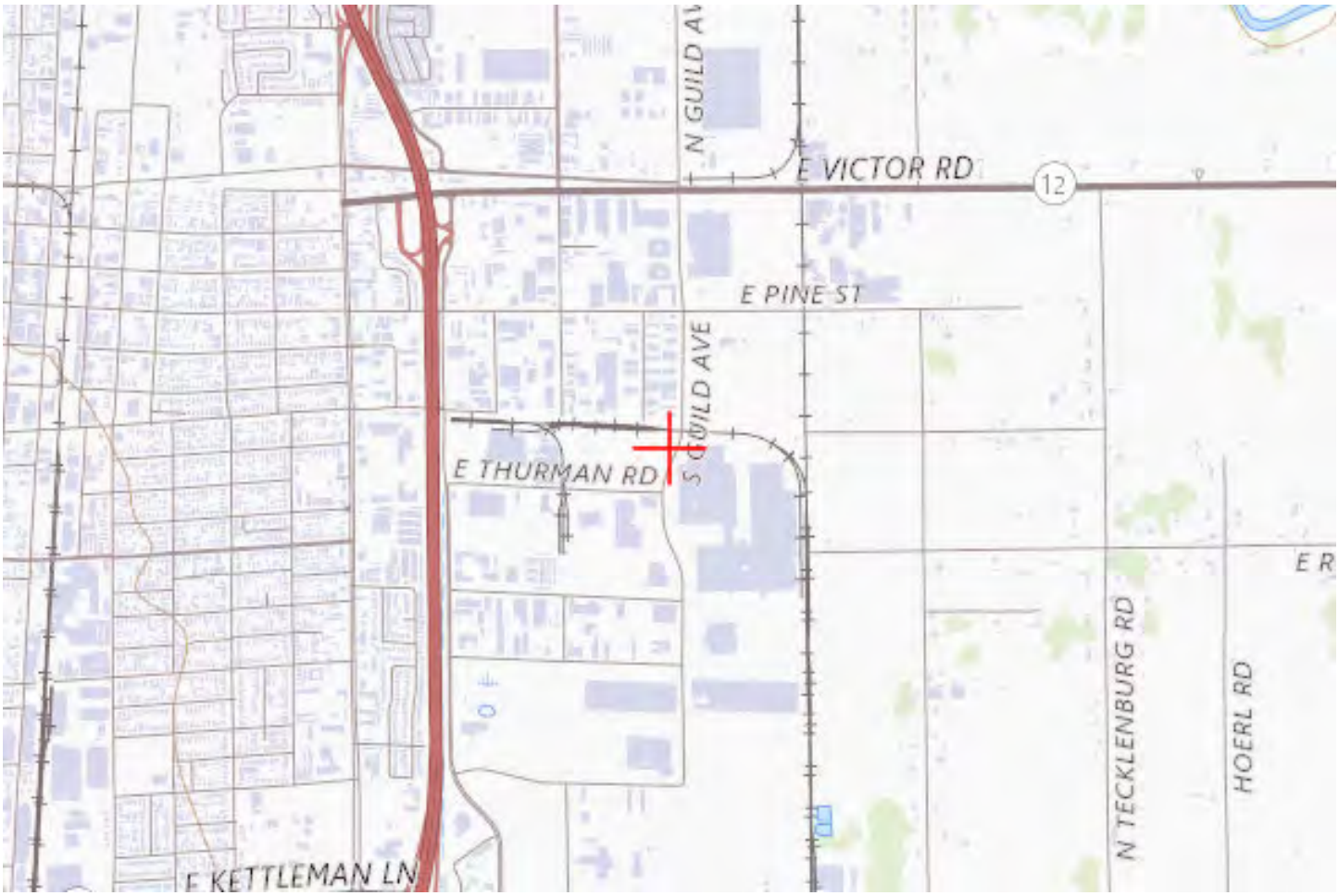
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7183-OE.

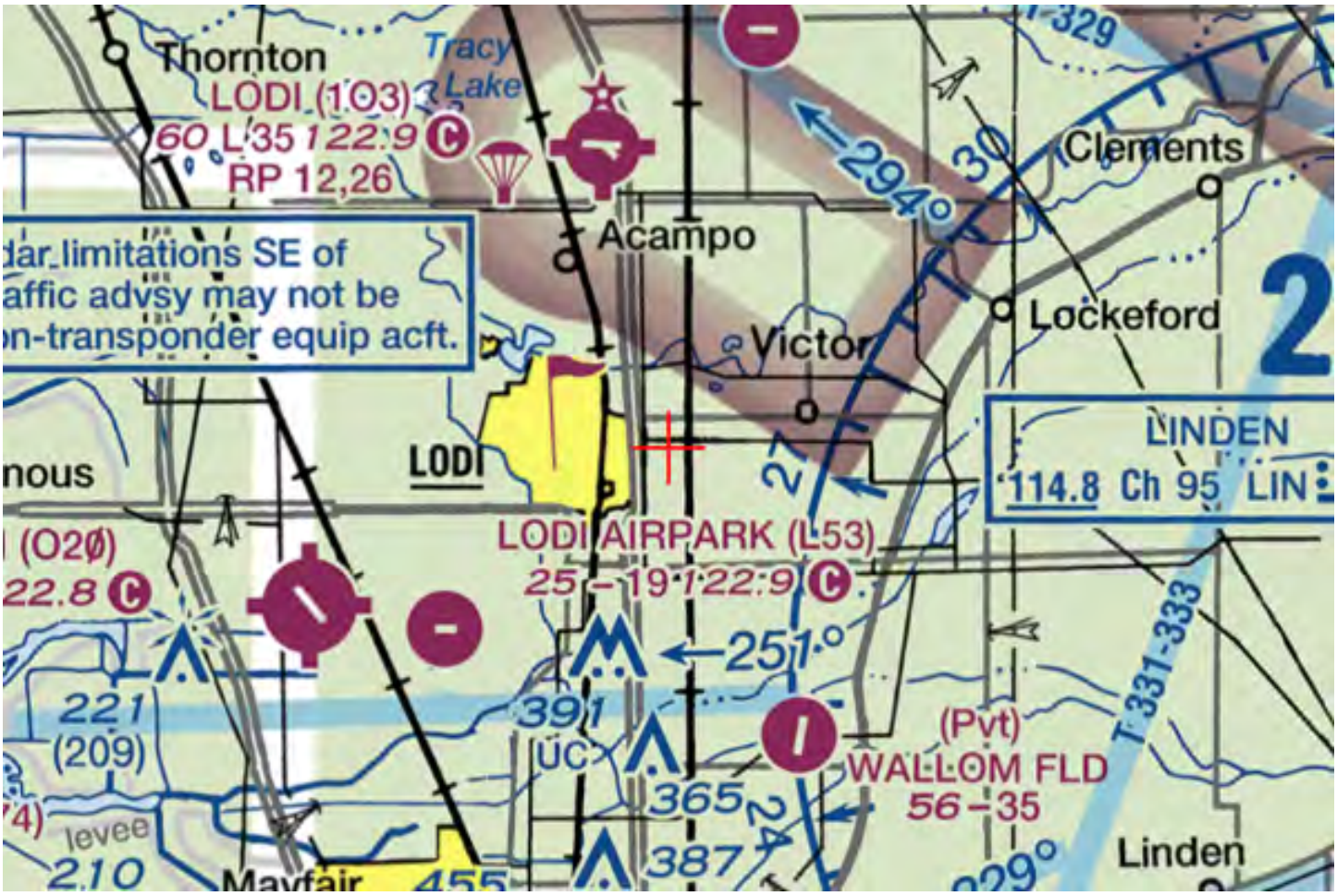
Signature Control No: 521428015-526157669 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7183-OE



Sectional Map for ASN 2022-AWP-7183-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7184-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-2
Location:	Woodbridge, CA
Latitude:	38-07-48.85N NAD 83
Longitude:	121-14-53.19W
Heights:	60 feet site elevation (SE)
	140 feet above ground level (AGL)
	200 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

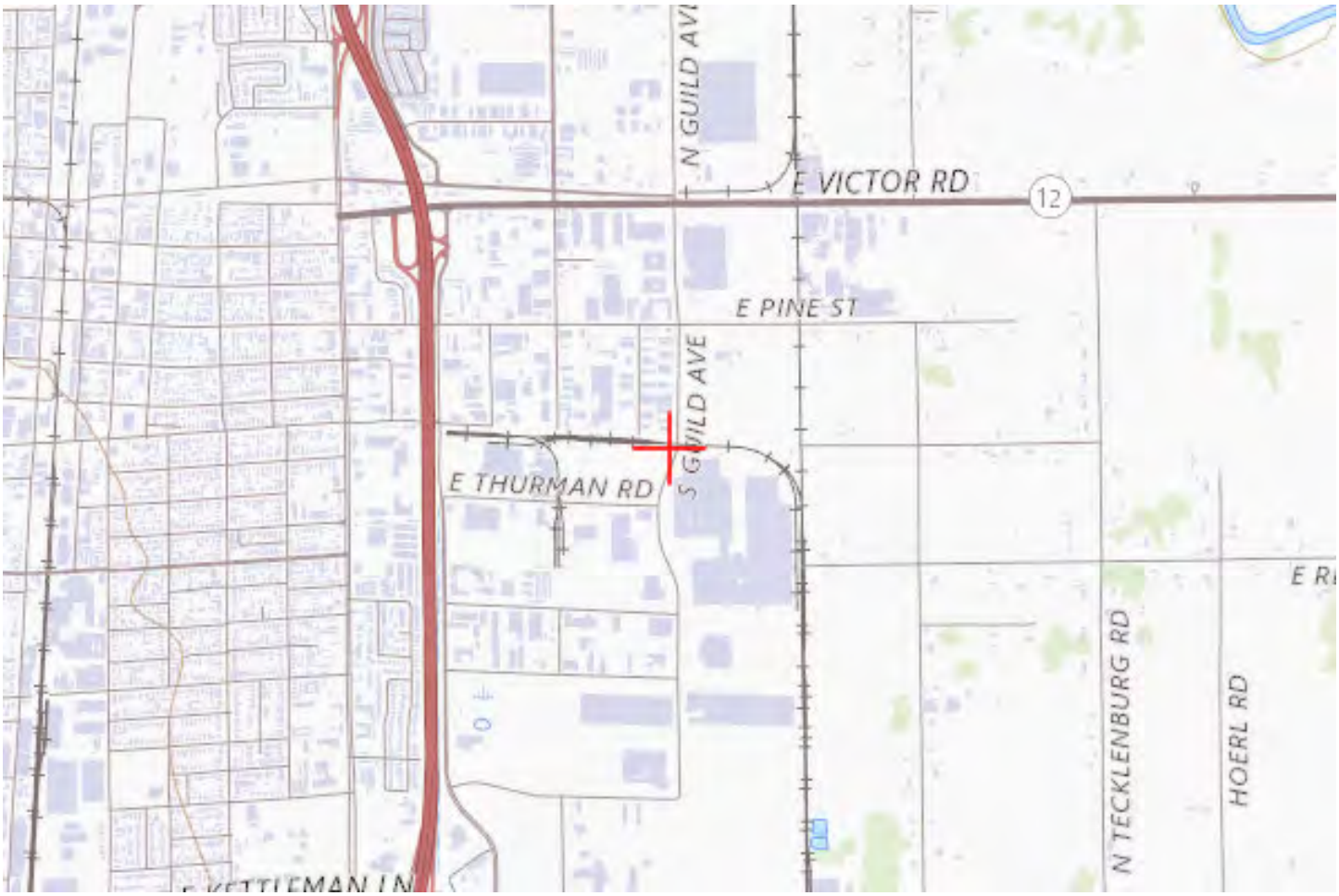
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7184-OE.

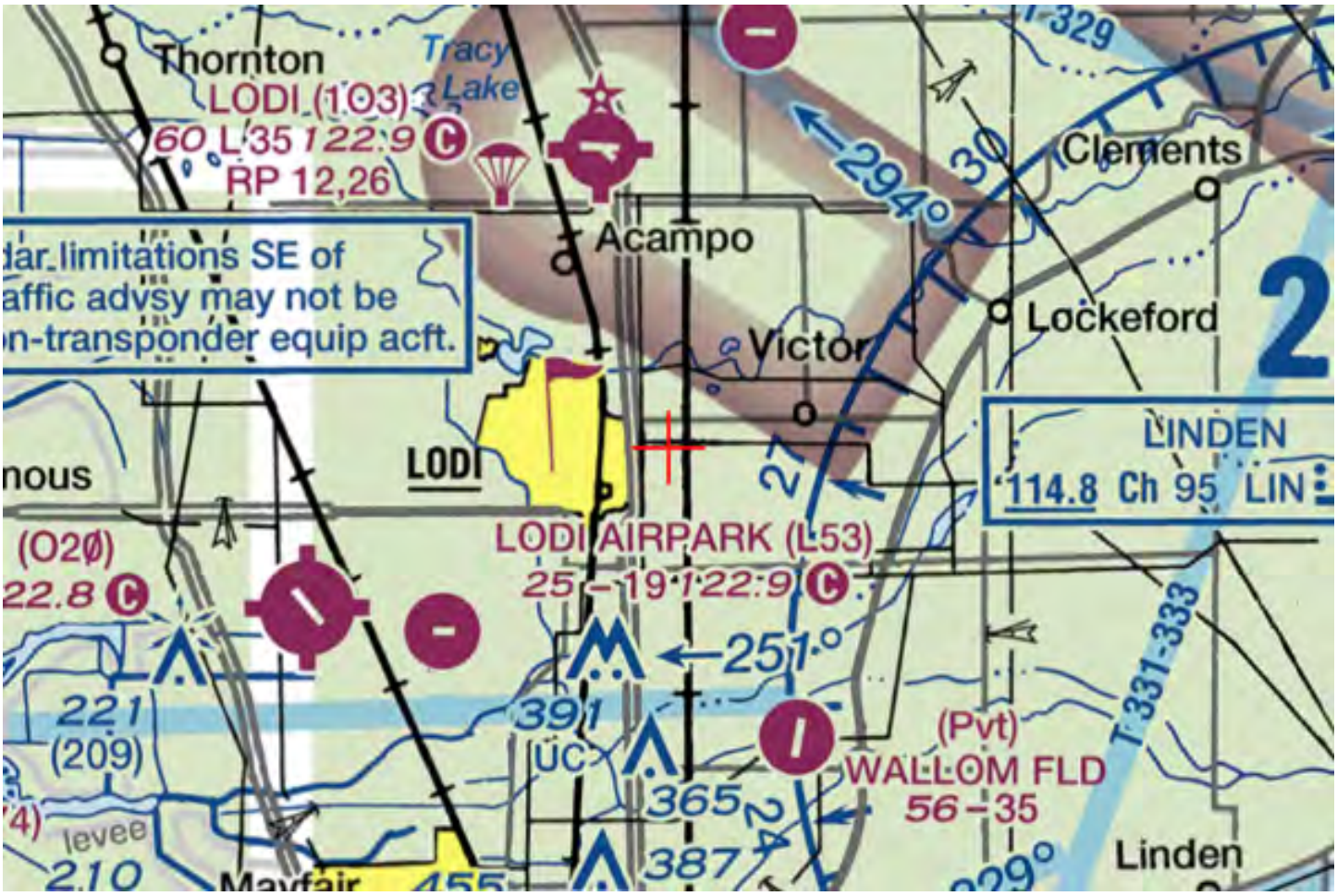
Signature Control No: 521428017-526157672 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7184-OE



Sectional Map for ASN 2022-AWP-7184-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7185-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-3
Location:	Woodbridge, CA
Latitude:	38-07-48.78N NAD 83
Longitude:	121-14-51.49W
Heights:	62 feet site elevation (SE) 140 feet above ground level (AGL) 202 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7185-OE.

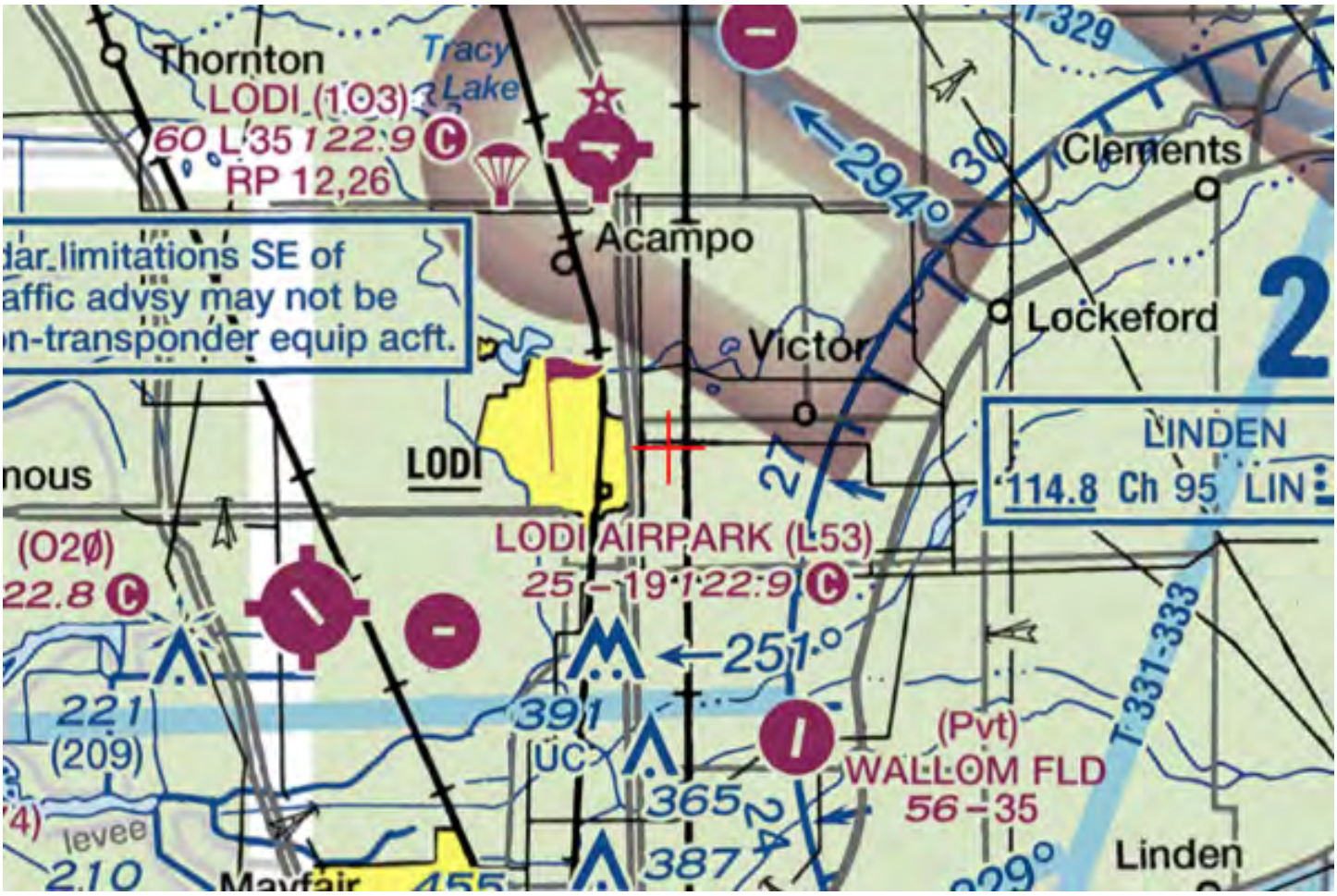
Signature Control No: 521428019-526157670 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7185-OE



Sectional Map for ASN 2022-AWP-7185-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7186-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-4
Location:	Woodbridge, CA
Latitude:	38-07-48.65N NAD 83
Longitude:	121-14-48.13W
Heights:	62 feet site elevation (SE)
	140 feet above ground level (AGL)
	202 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7186-OE.

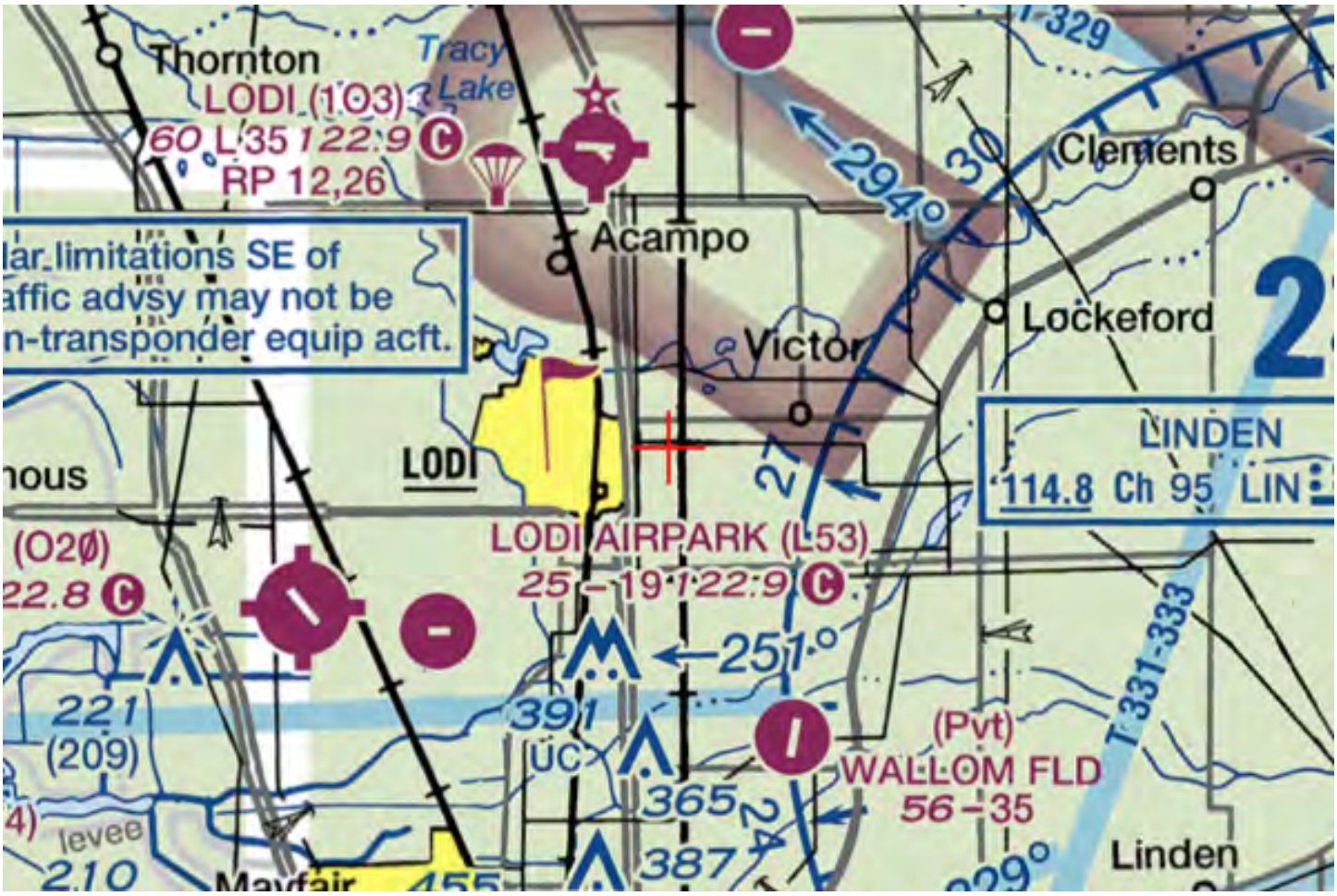
Signature Control No: 521428020-526157671 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7186-OE



Sectional Map for ASN 2022-AWP-7186-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7187-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-5
Location:	Woodbridge, CA
Latitude:	38-07-48.53N NAD 83
Longitude:	121-14-44.29W
Heights:	60 feet site elevation (SE)
	140 feet above ground level (AGL)
	200 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

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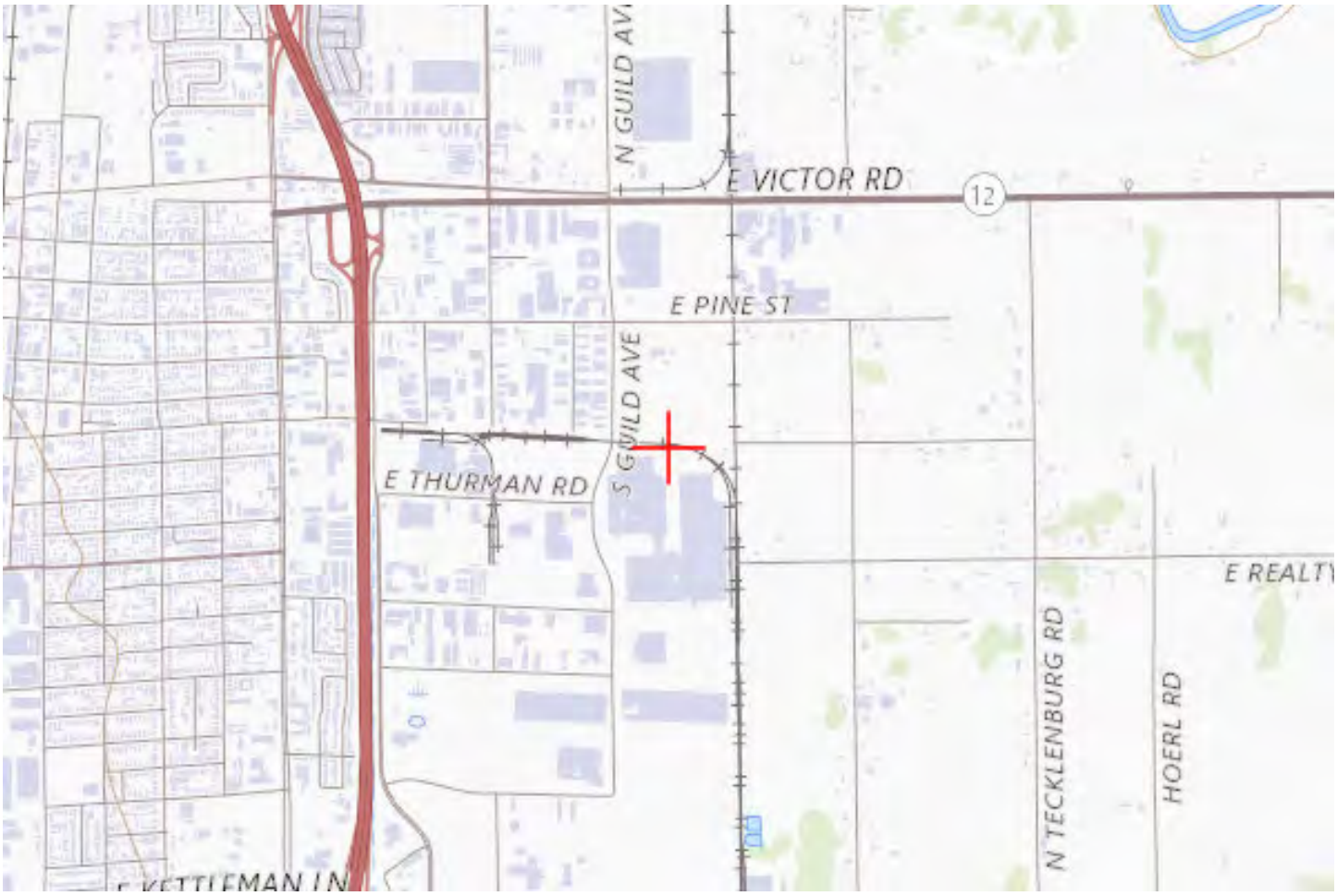
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7187-OE.

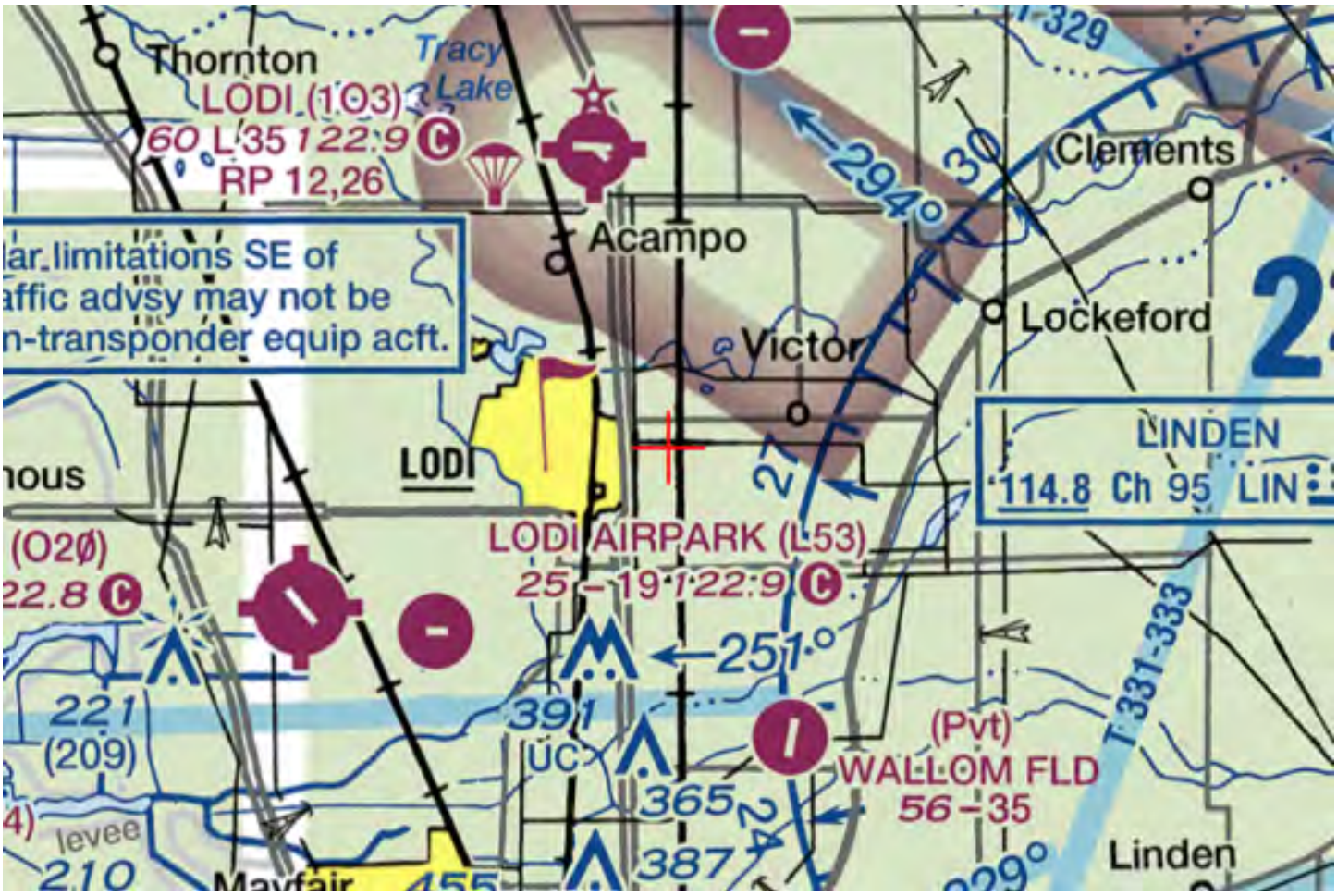
Signature Control No: 521428022-526157678 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7187-OE



Sectional Map for ASN 2022-AWP-7187-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7188-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-6
Location:	Woodbridge, CA
Latitude:	38-07-46.99N NAD 83
Longitude:	121-14-38.92W
Heights:	60 feet site elevation (SE)
	140 feet above ground level (AGL)
	200 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

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NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7188-OE.

Signature Control No: 521428023-526157677 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7188-OE



Sectional Map for ASN 2022-AWP-7188-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7189-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-7
Location:	Woodbridge, CA
Latitude:	38-07-47.02N NAD 83
Longitude:	121-14-33.81W
Heights:	63 feet site elevation (SE)
	130 feet above ground level (AGL)
	193 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

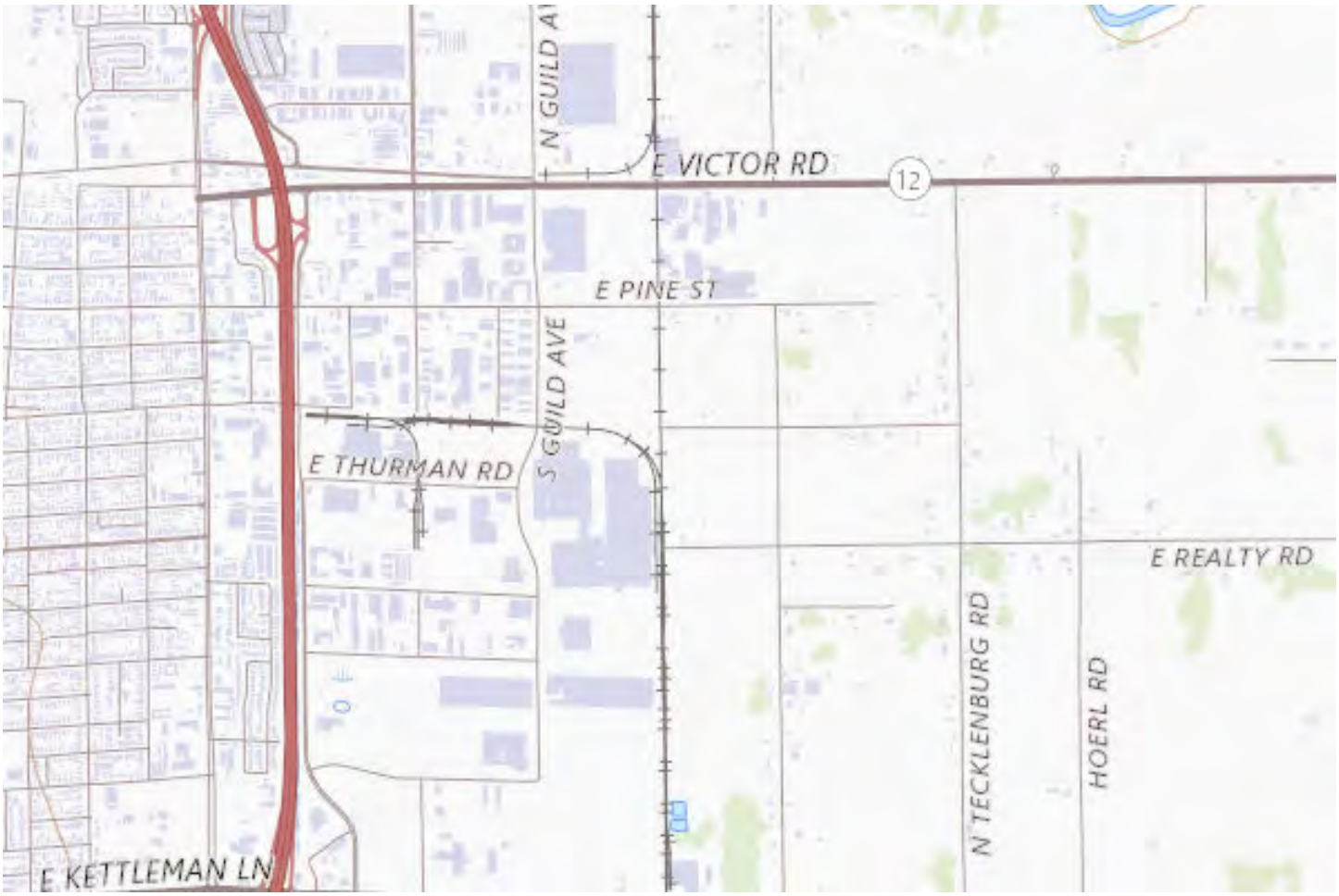
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7189-OE.

Signature Control No: 521428025-526157675 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7189-OE



Sectional Map for ASN 2022-AWP-7189-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7190-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-8
Location:	Woodbridge, CA
Latitude:	38-07-47.07N NAD 83
Longitude:	121-14-26.60W
Heights:	62 feet site elevation (SE) 120 feet above ground level (AGL) 182 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7190-OE.

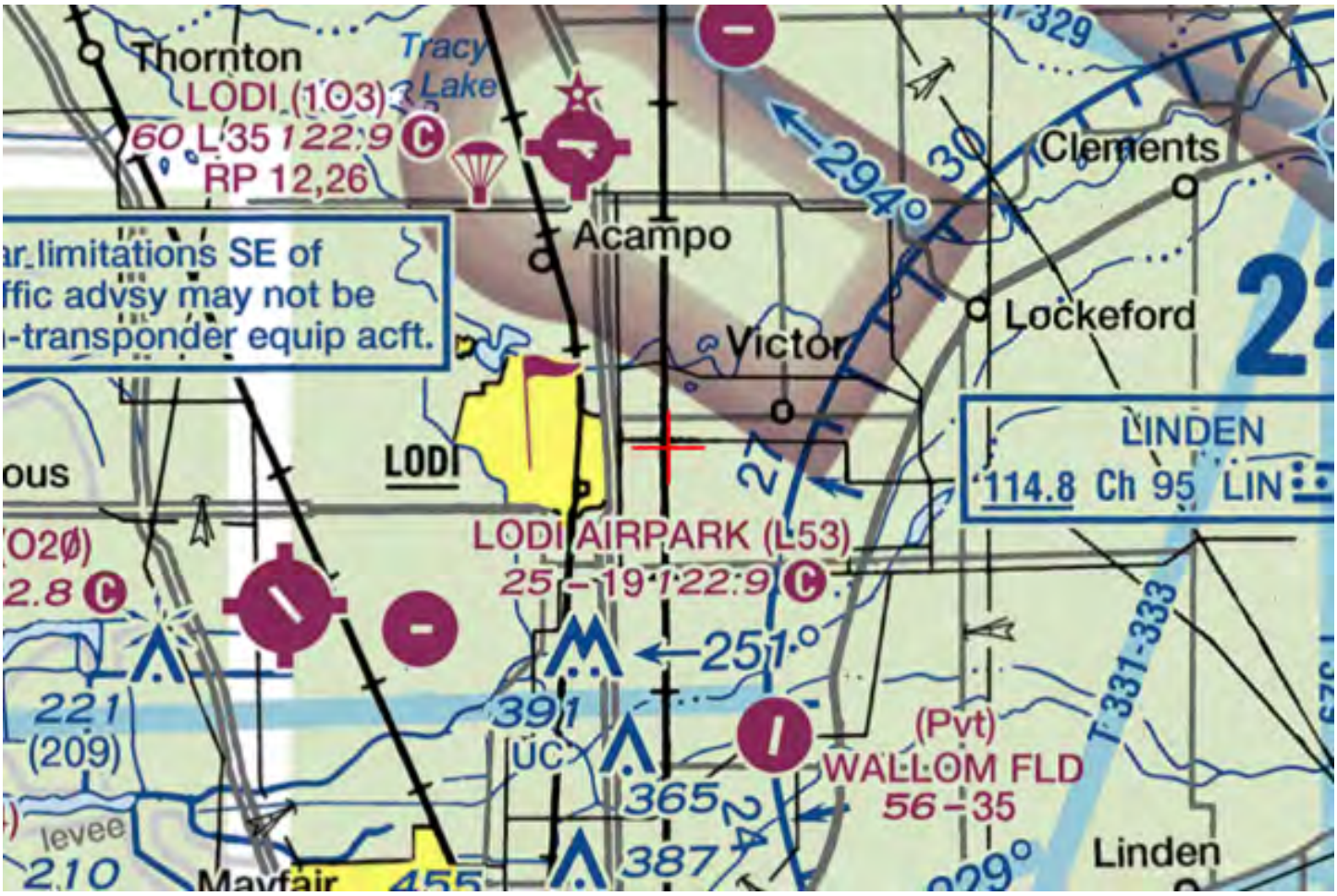
Signature Control No: 521428026-526157679 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7190-OE



Sectional Map for ASN 2022-AWP-7190-OE



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Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7191-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-9
Location:	Woodbridge, CA
Latitude:	38-07-38.90N NAD 83
Longitude:	121-14-26.58W
Heights:	63 feet site elevation (SE) 130 feet above ground level (AGL) 193 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

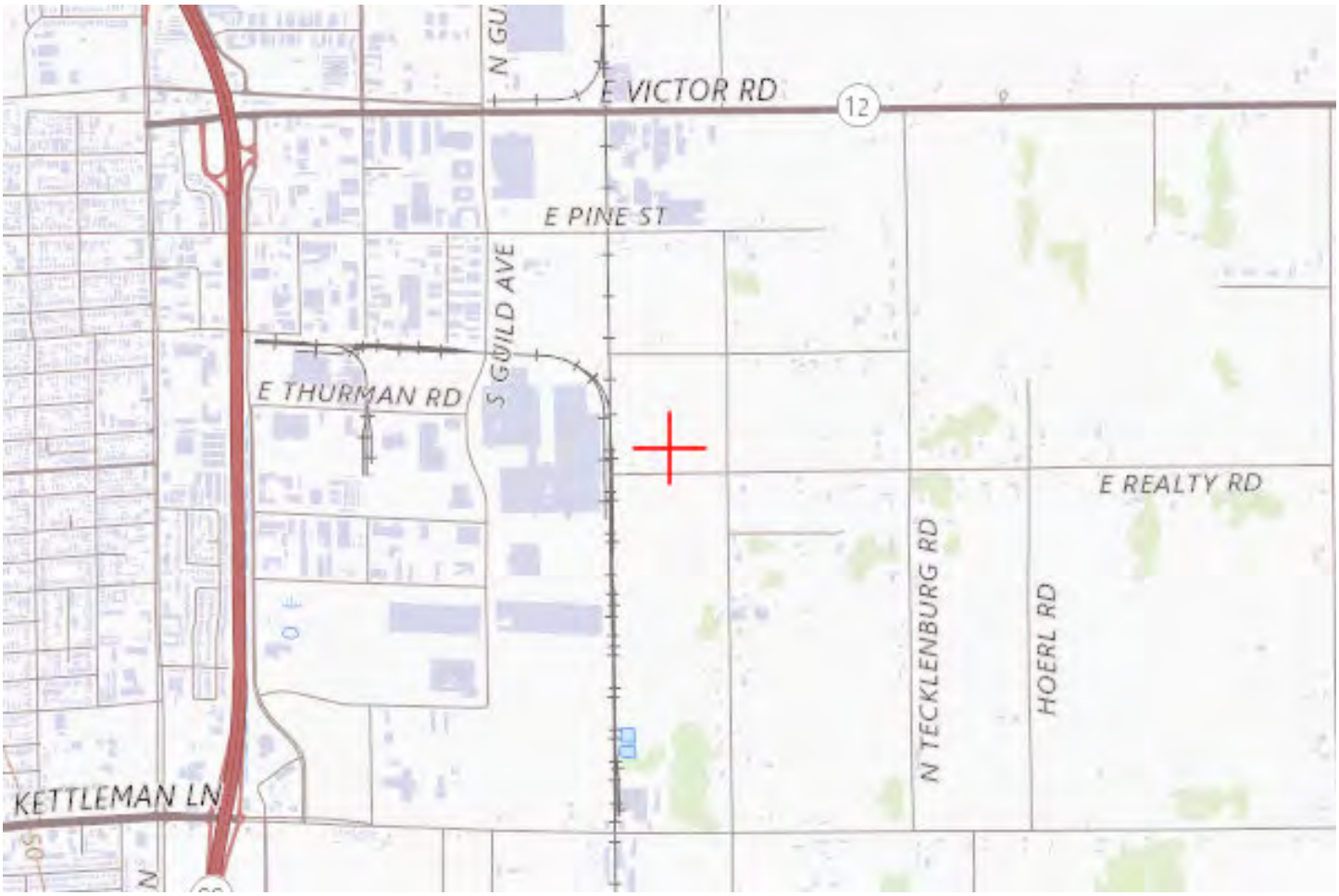
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7191-OE.

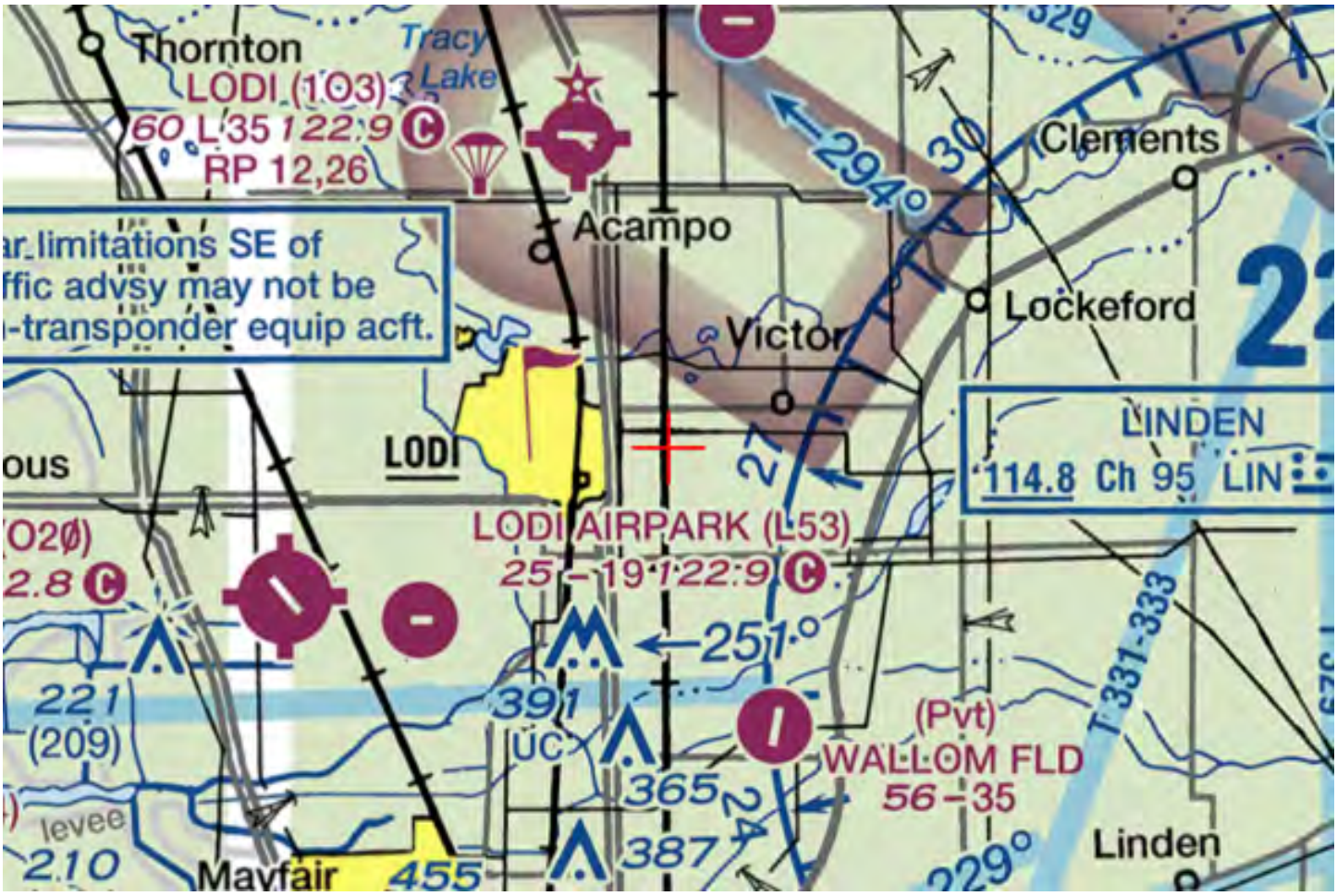
Signature Control No: 521428028-526157668 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7191-OE



Sectional Map for ASN 2022-AWP-7191-OE



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Federal Aviation Administration
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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7192-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-10
Location:	Woodbridge, CA
Latitude:	38-07-29.98N NAD 83
Longitude:	121-14-26.56W
Heights:	62 feet site elevation (SE) 130 feet above ground level (AGL) 192 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7192-OE.

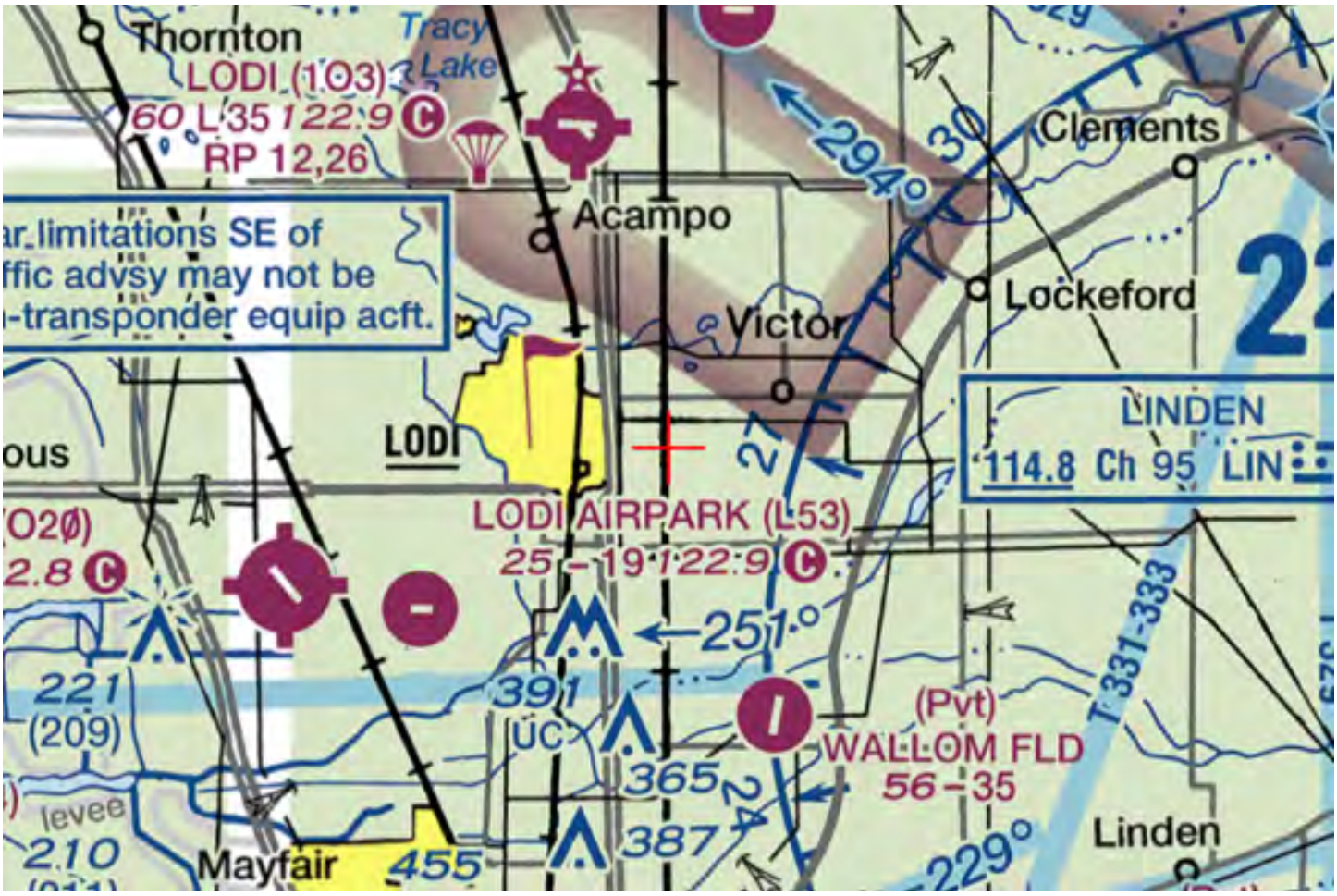
Signature Control No: 521428030-526157674 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7192-OE



Sectional Map for ASN 2022-AWP-7192-OE



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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7193-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-11
Location:	Woodbridge, CA
Latitude:	38-07-22.89N NAD 83
Longitude:	121-14-26.54W
Heights:	63 feet site elevation (SE) 120 feet above ground level (AGL) 183 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7193-OE.

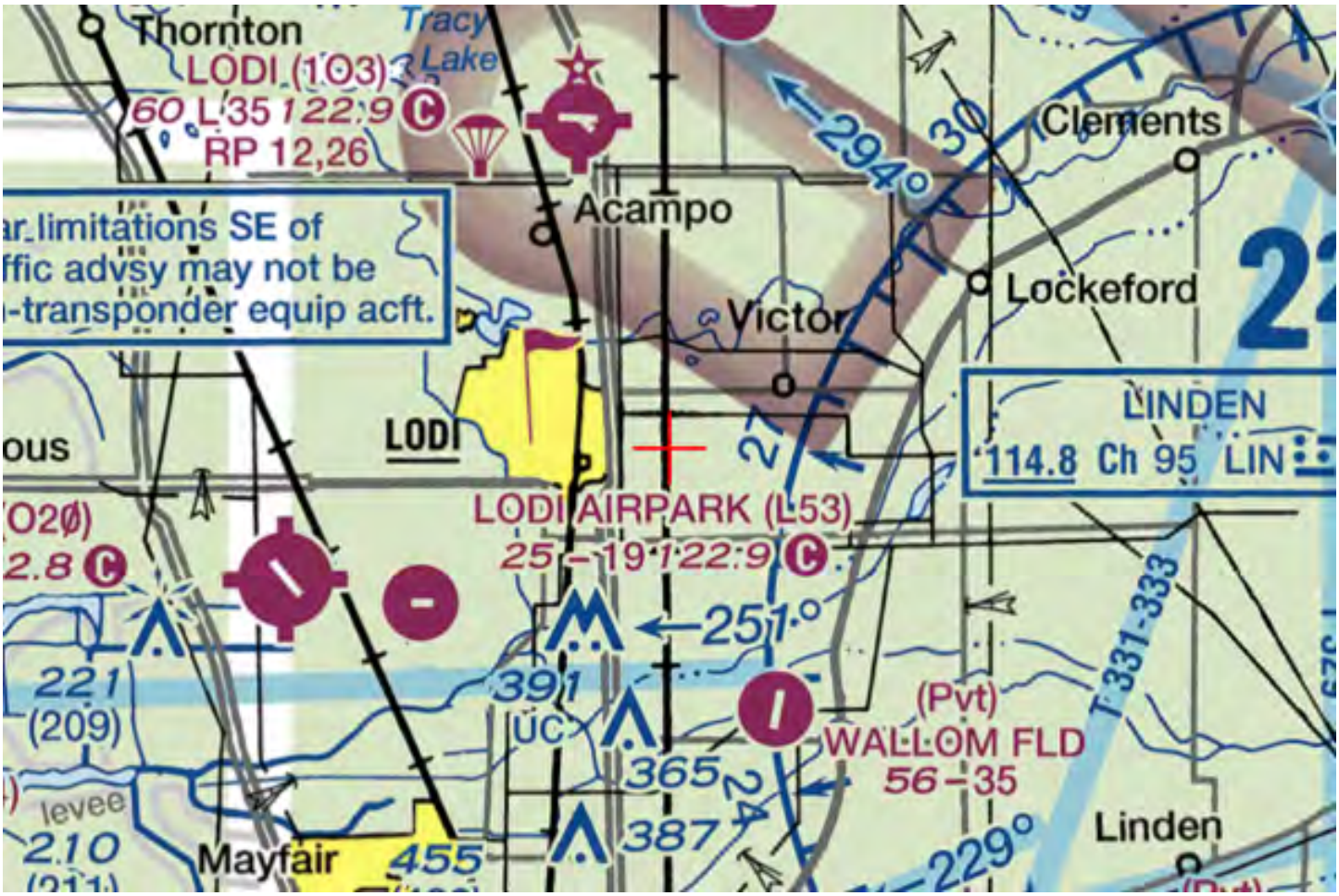
Signature Control No: 521428031-526157676 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7193-OE



Sectional Map for ASN 2022-AWP-7193-OE



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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7194-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-12
Location:	Woodbridge, CA
Latitude:	38-07-16.85N NAD 83
Longitude:	121-14-26.52W
Heights:	59 feet site elevation (SE) 120 feet above ground level (AGL) 179 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7194-OE.

Signature Control No: 521428033-526157673 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7194-OE



Sectional Map for ASN 2022-AWP-7194-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
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Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7195-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-13
Location:	Woodbridge, CA
Latitude:	38-07-10.12N NAD 83
Longitude:	121-14-26.50W
Heights:	61 feet site elevation (SE)
	120 feet above ground level (AGL)
	181 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7195-OE.

Signature Control No: 521428034-526158843 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7195-OE



Sectional Map for ASN 2022-AWP-7195-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7196-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-14
Location:	Woodbridge, CA
Latitude:	38-07-10.15N NAD 83
Longitude:	121-14-19.75W
Heights:	60 feet site elevation (SE)
	140 feet above ground level (AGL)
	200 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

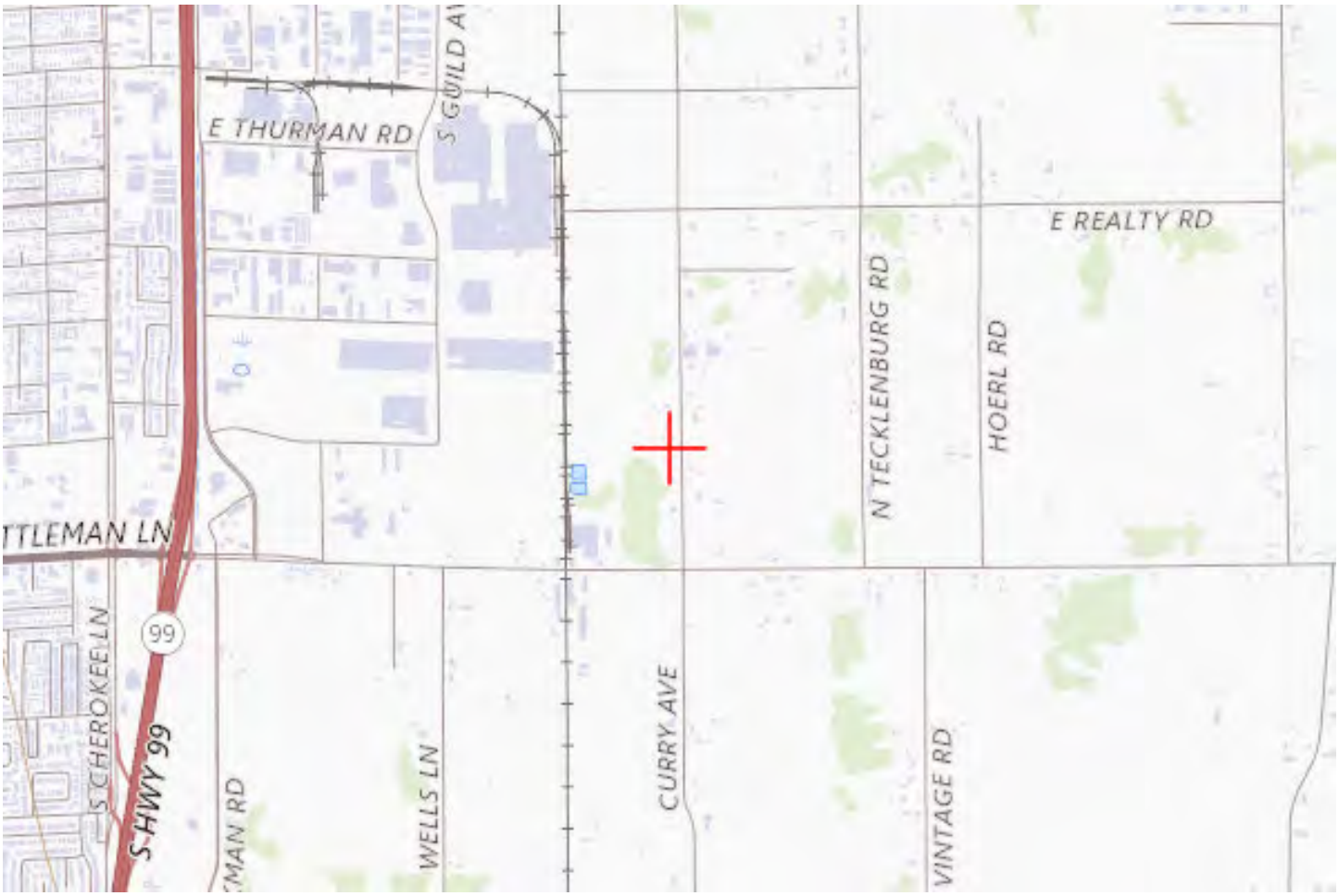
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7196-OE.

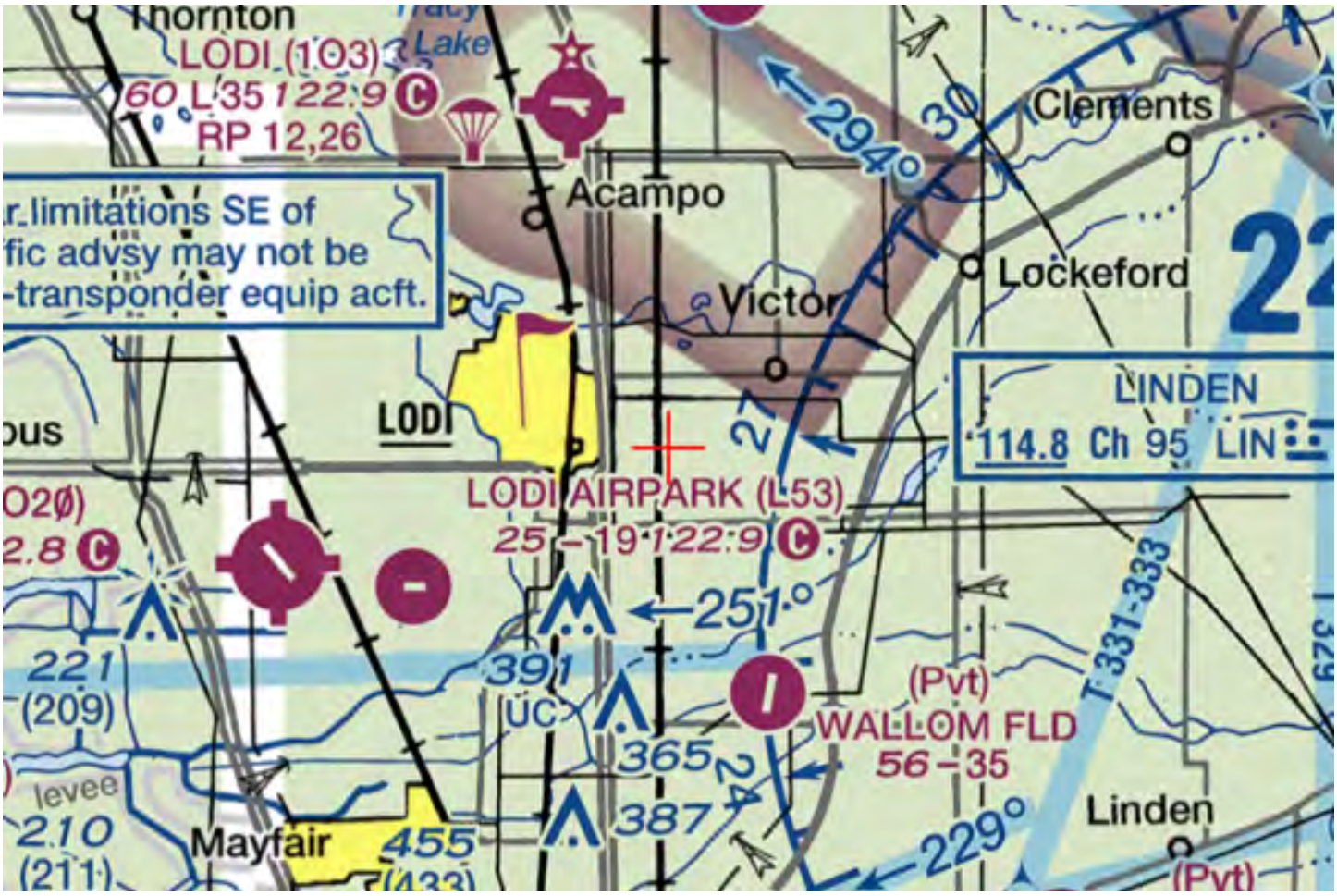
Signature Control No: 521428035-526158852 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7196-OE



Sectional Map for ASN 2022-AWP-7196-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7197-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-15
Location:	Woodbridge, CA
Latitude:	38-07-10.22N NAD 83
Longitude:	121-14-07.17W
Heights:	61 feet site elevation (SE)
	130 feet above ground level (AGL)
	191 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

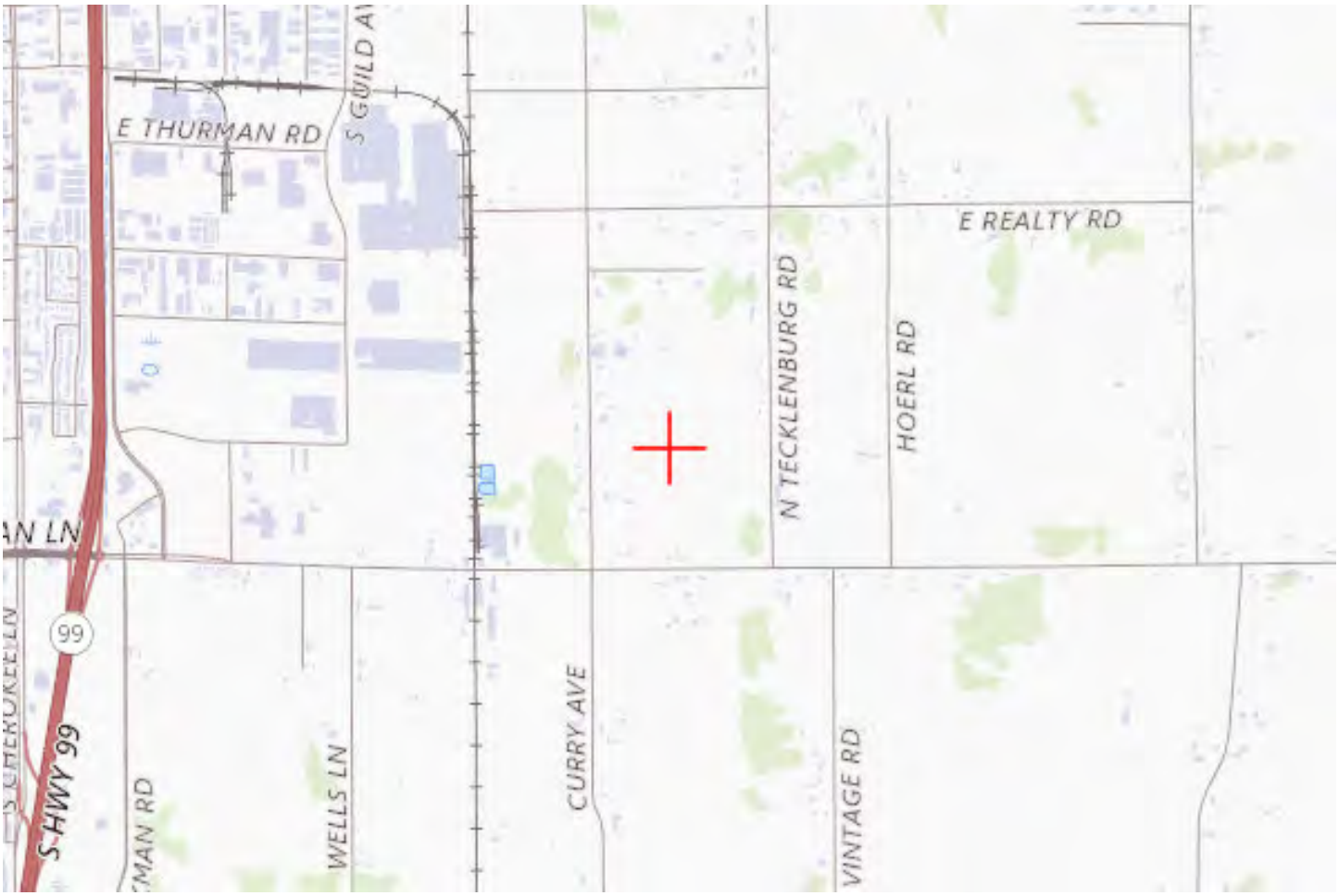
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7197-OE.

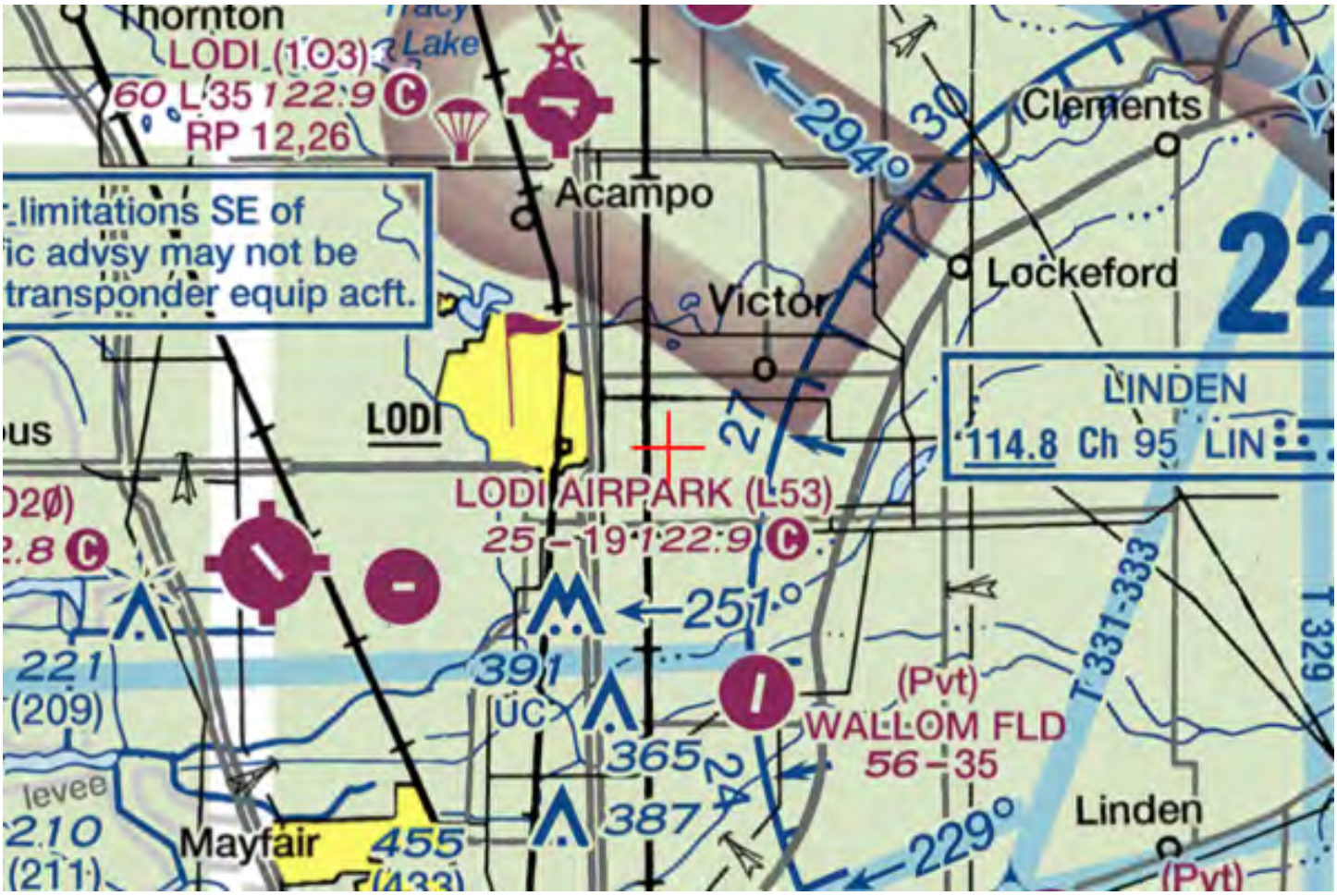
Signature Control No: 521428037-526158854 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7197-OE



Sectional Map for ASN 2022-AWP-7197-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7198-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-16
Location:	Woodbridge, CA
Latitude:	38-07-10.29N NAD 83
Longitude:	121-13-54.19W
Heights:	63 feet site elevation (SE)
	130 feet above ground level (AGL)
	193 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

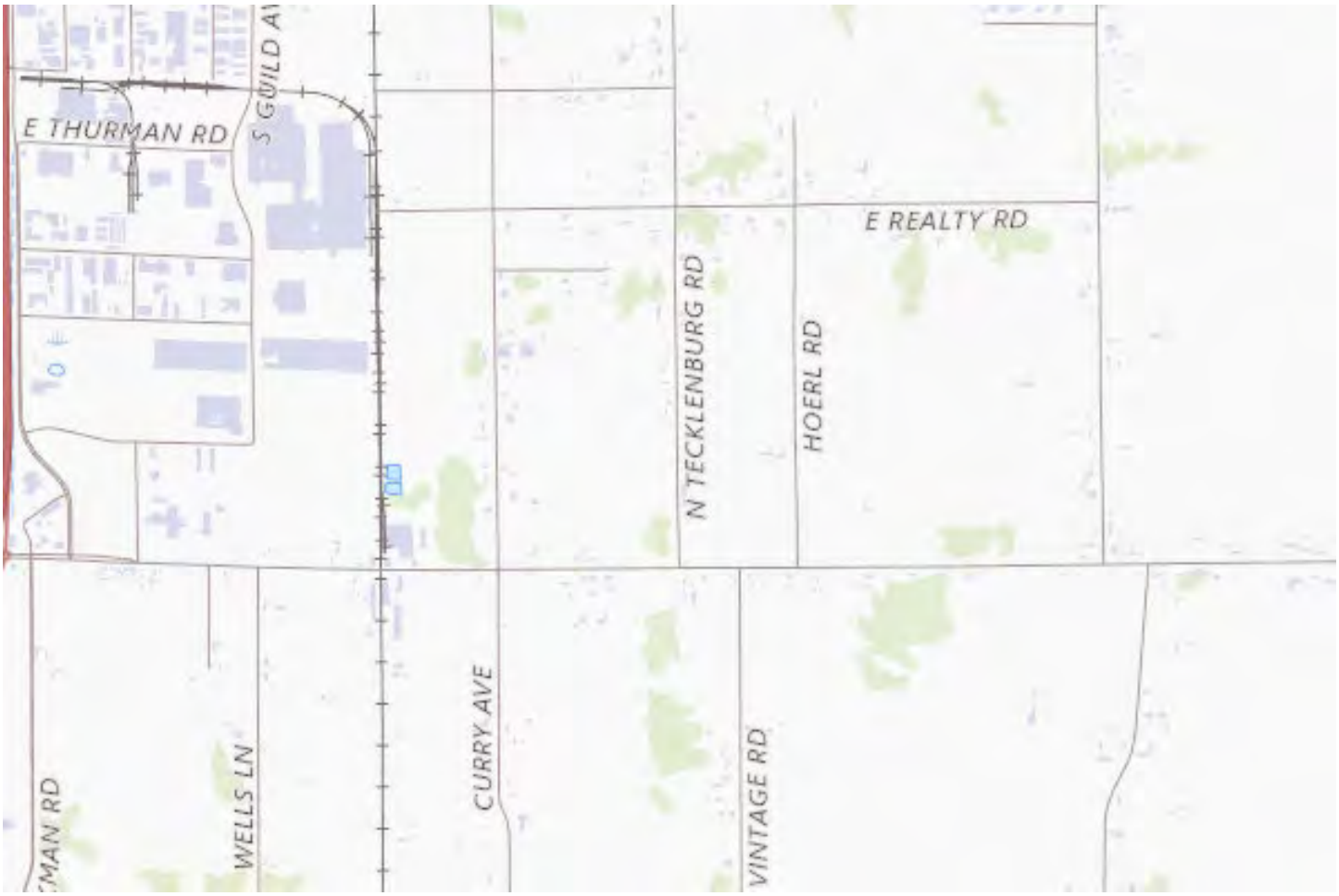
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7198-OE.

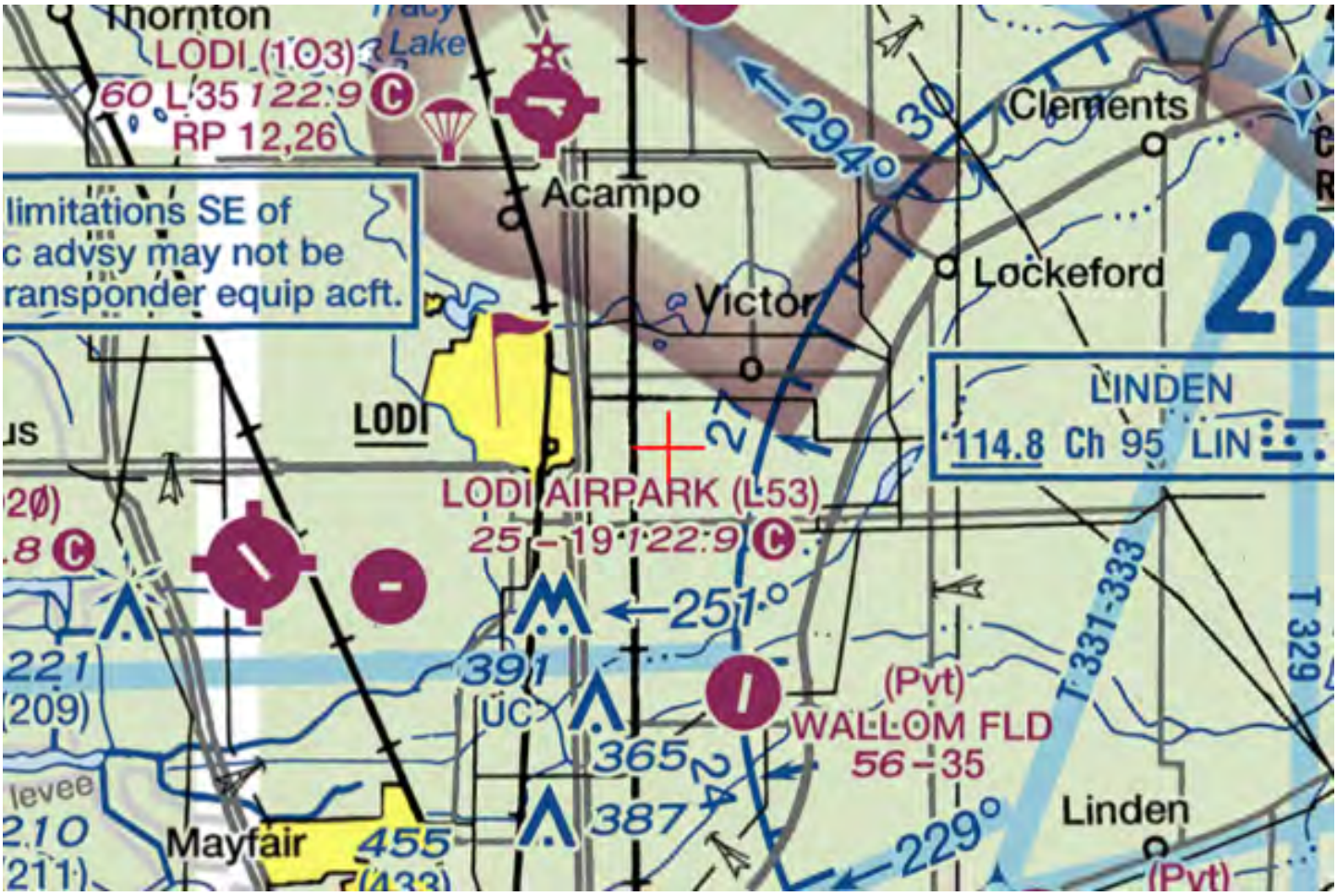
Signature Control No: 521428039-526158844 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7198-OE



Sectional Map for ASN 2022-AWP-7198-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7199-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-17
Location:	Woodbridge, CA
Latitude:	38-07-13.23N NAD 83
Longitude:	121-13-45.06W
Heights:	63 feet site elevation (SE)
	120 feet above ground level (AGL)
	183 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7199-OE.

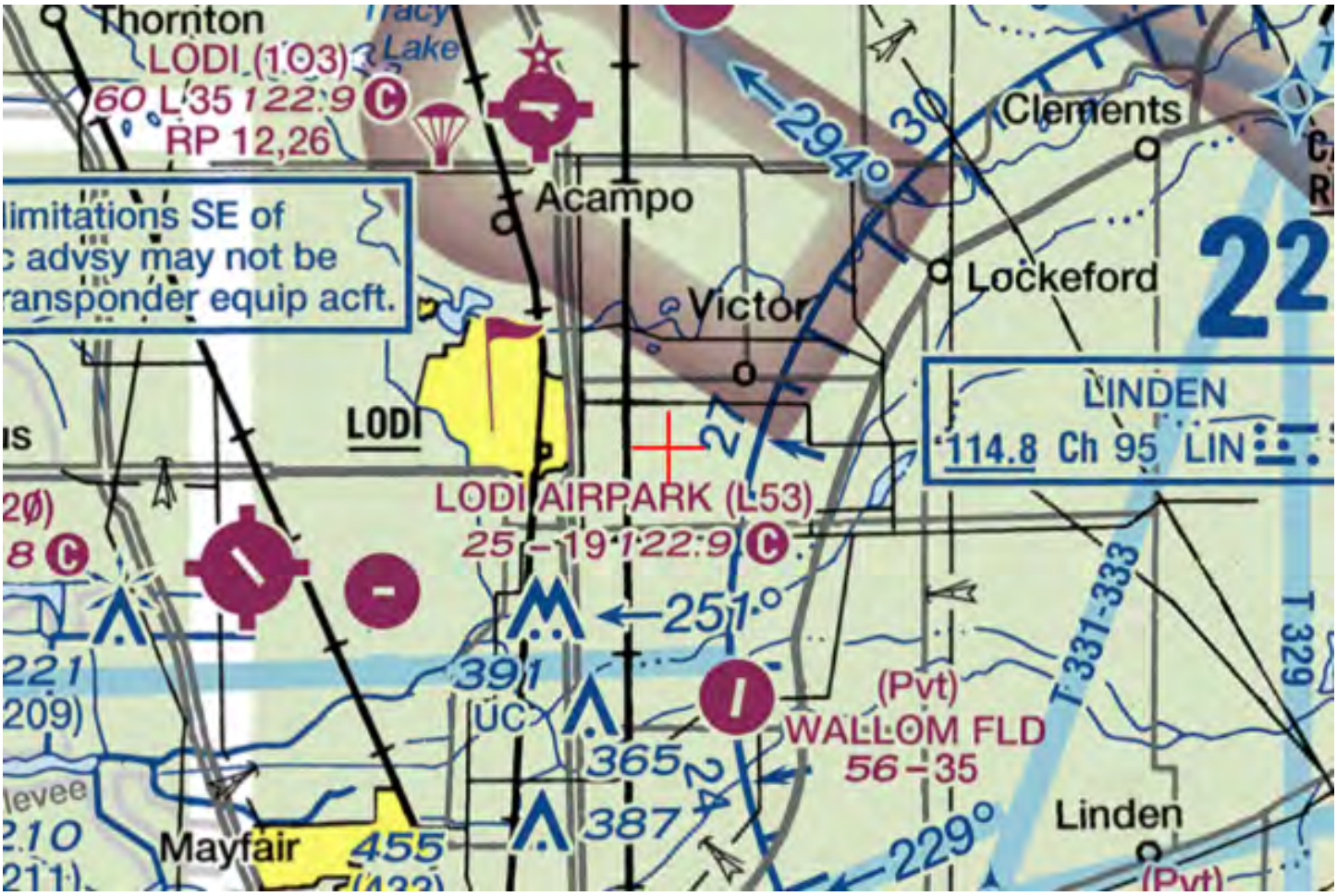
Signature Control No: 521428040-526158840 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7199-OE



Sectional Map for ASN 2022-AWP-7199-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7200-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-18
Location:	Woodbridge, CA
Latitude:	38-07-15.98N NAD 83
Longitude:	121-13-36.48W
Heights:	64 feet site elevation (SE)
	120 feet above ground level (AGL)
	184 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

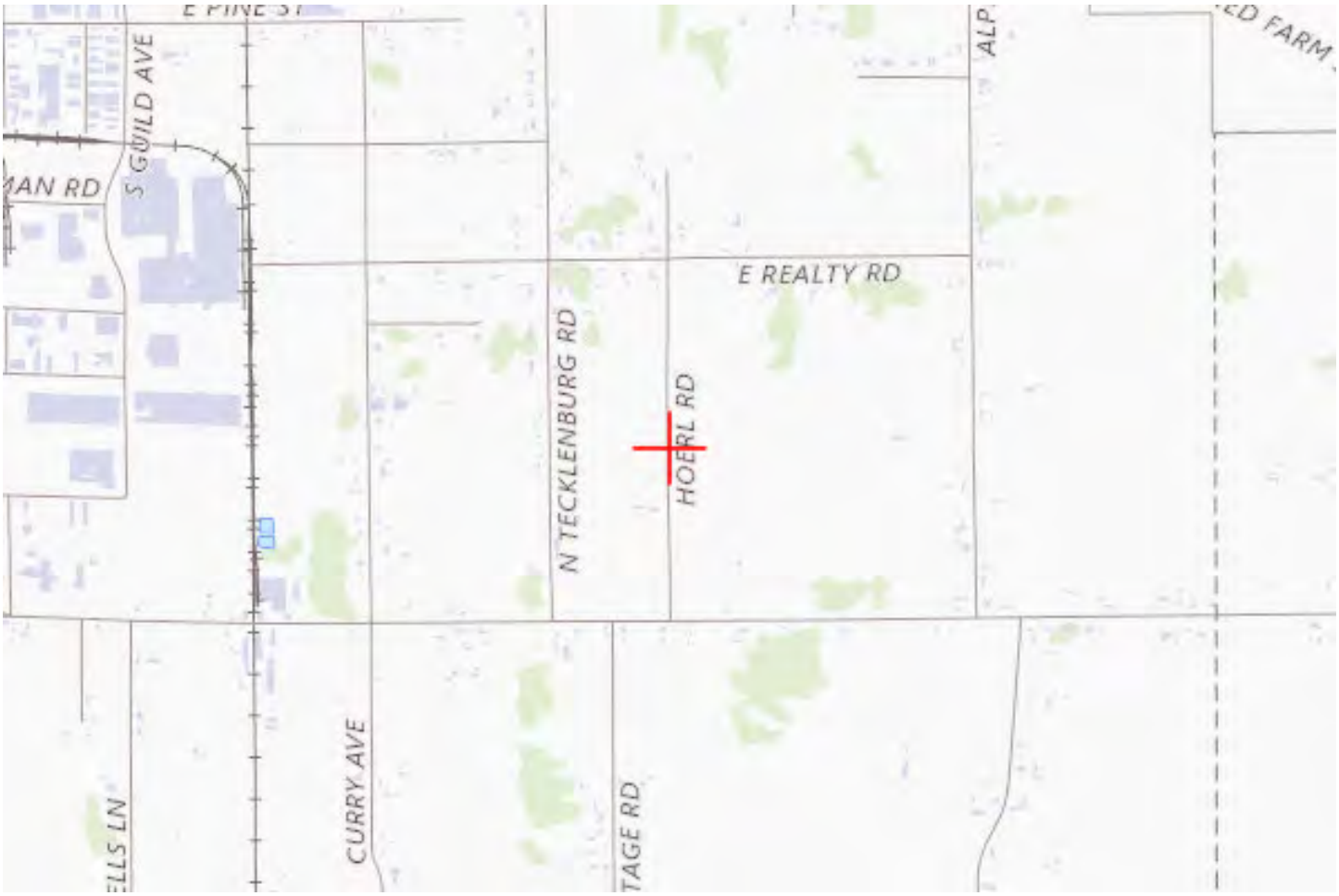
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7200-OE.

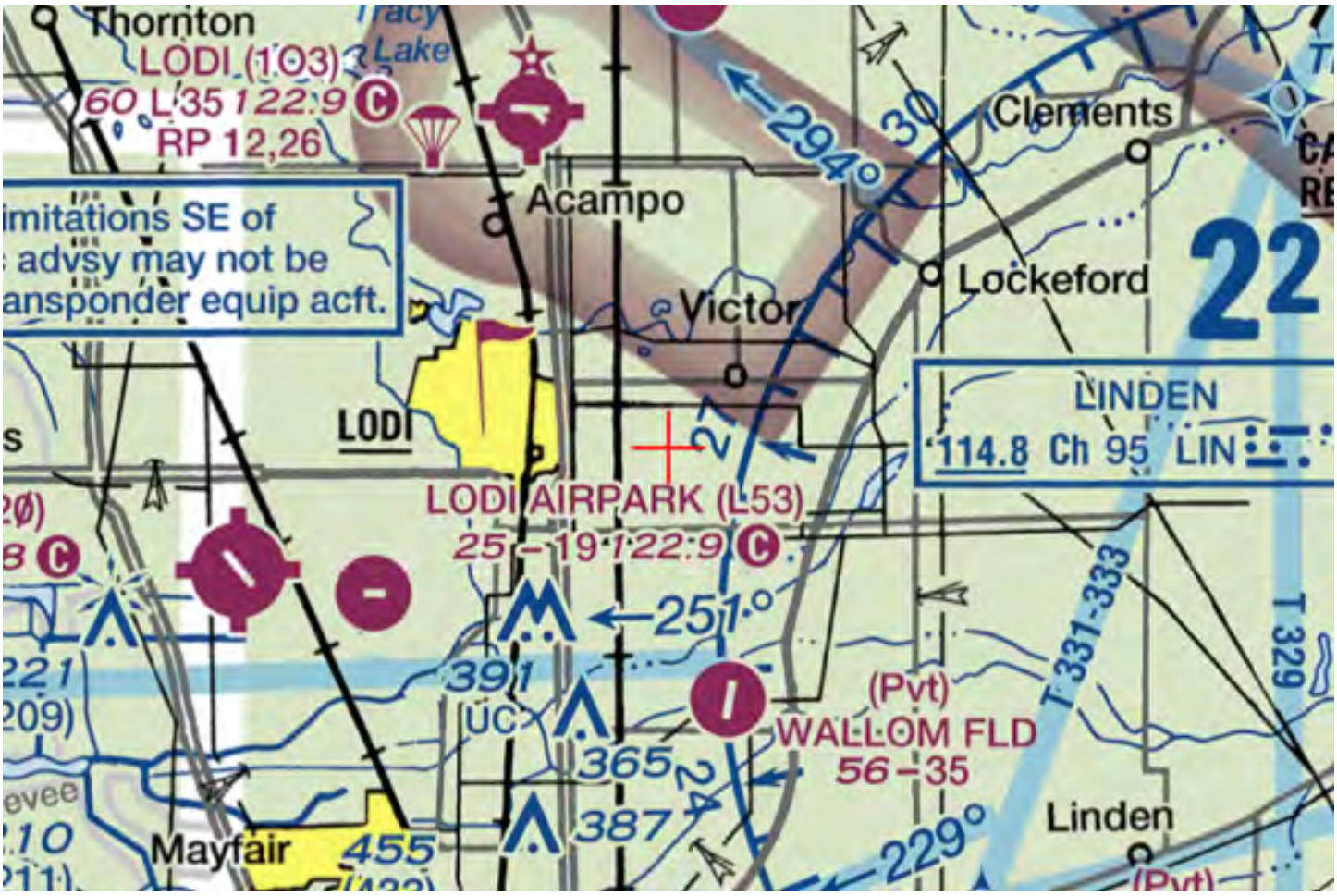
Signature Control No: 521428042-526158845 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7200-OE



Sectional Map for ASN 2022-AWP-7200-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7201-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-19
Location:	Woodbridge, CA
Latitude:	38-07-16.14N NAD 83
Longitude:	121-13-26.01W
Heights:	66 feet site elevation (SE)
	120 feet above ground level (AGL)
	186 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7201-OE.

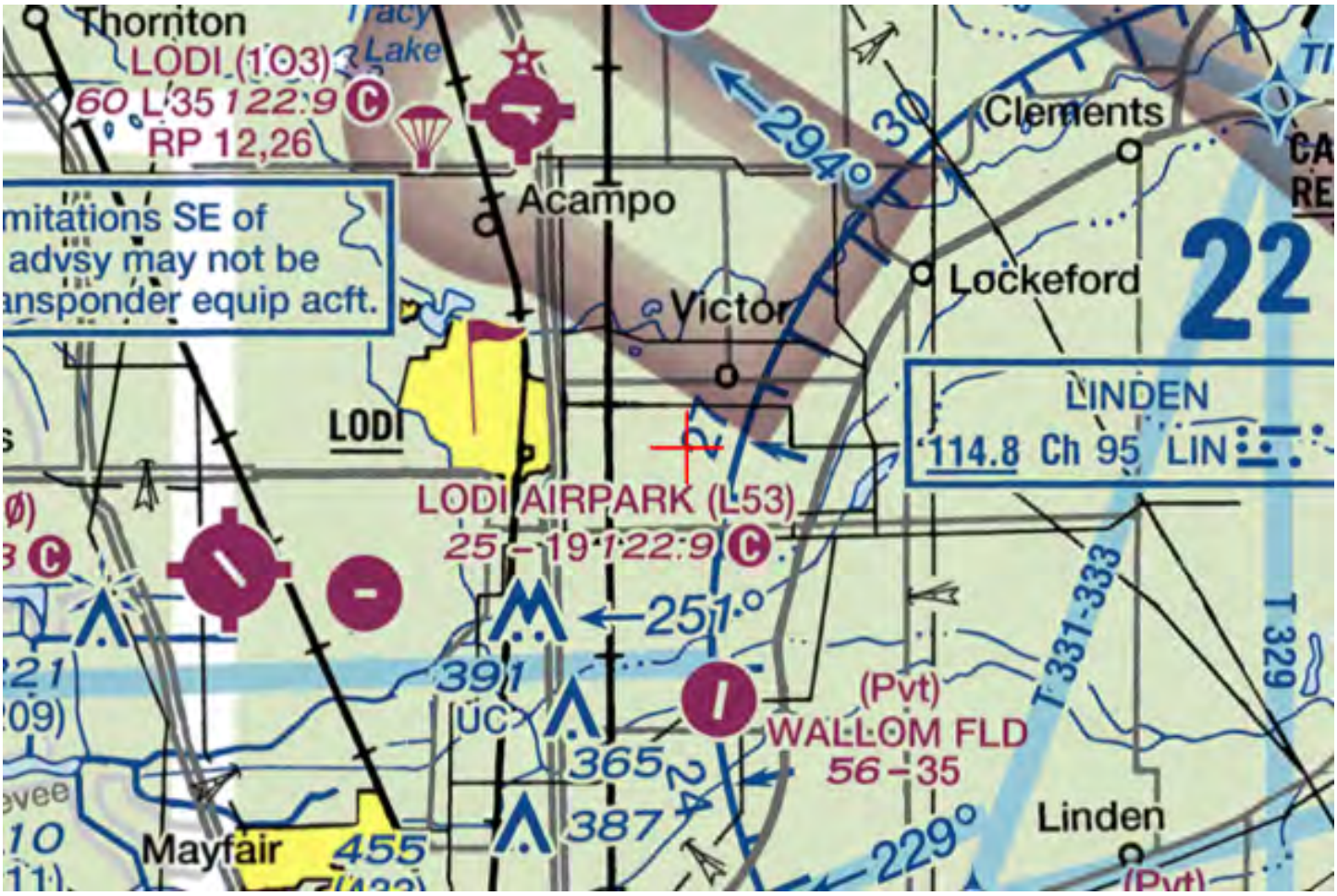
Signature Control No: 521428043-526158848 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7201-OE



Sectional Map for ASN 2022-AWP-7201-OE



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Aeronautical Study No.
2022-AWP-7202-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-20
Location:	Woodbridge, CA
Latitude:	38-07-16.29N NAD 83
Longitude:	121-13-15.49W
Heights:	68 feet site elevation (SE) 120 feet above ground level (AGL) 188 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7202-OE.

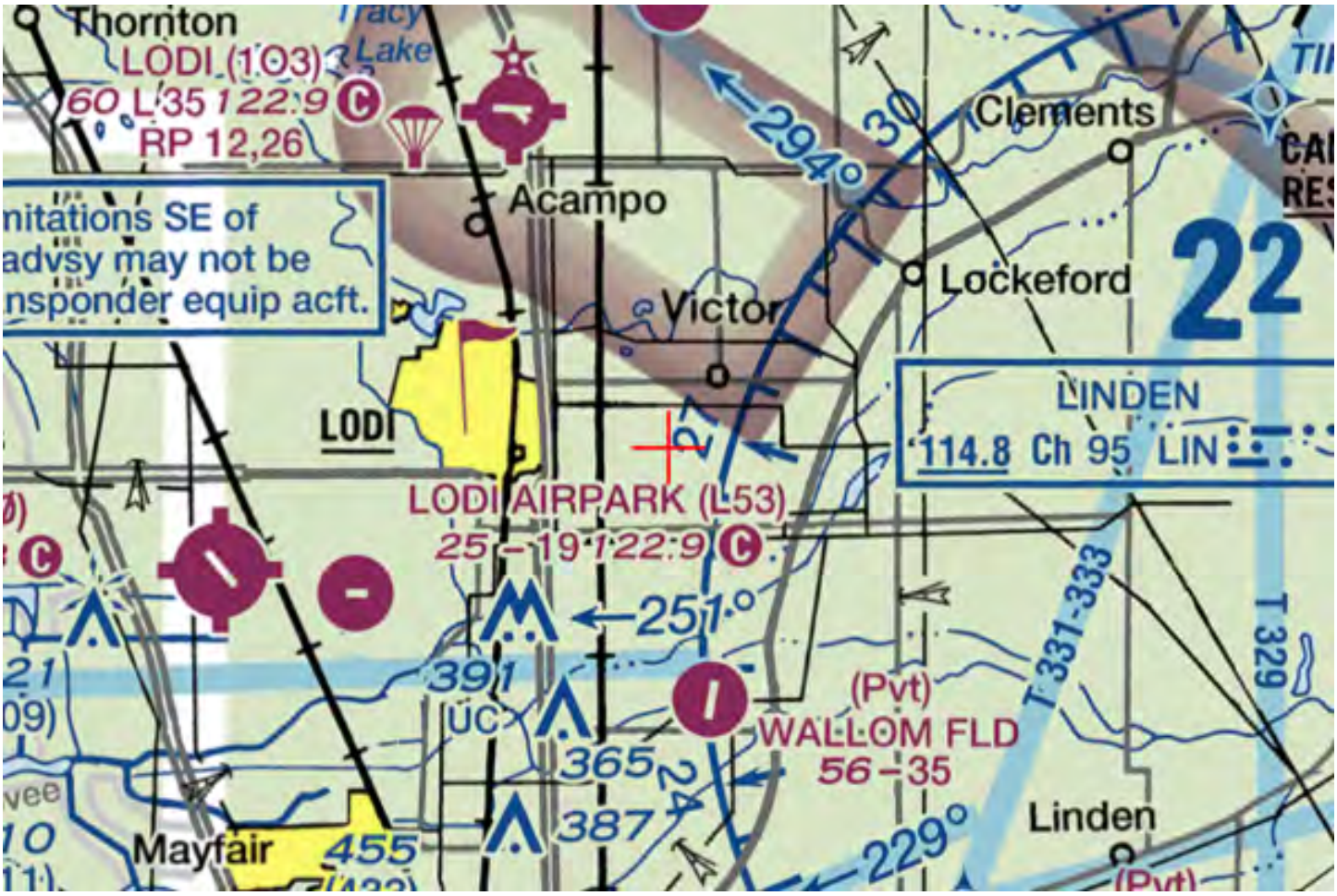
Signature Control No: 521428045-526158839 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7202-OE



Sectional Map for ASN 2022-AWP-7202-OE



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Aeronautical Study No.
2022-AWP-7203-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-21
Location:	Woodbridge, CA
Latitude:	38-07-16.44N NAD 83
Longitude:	121-13-05.29W
Heights:	67 feet site elevation (SE)
	120 feet above ground level (AGL)
	187 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7203-OE.

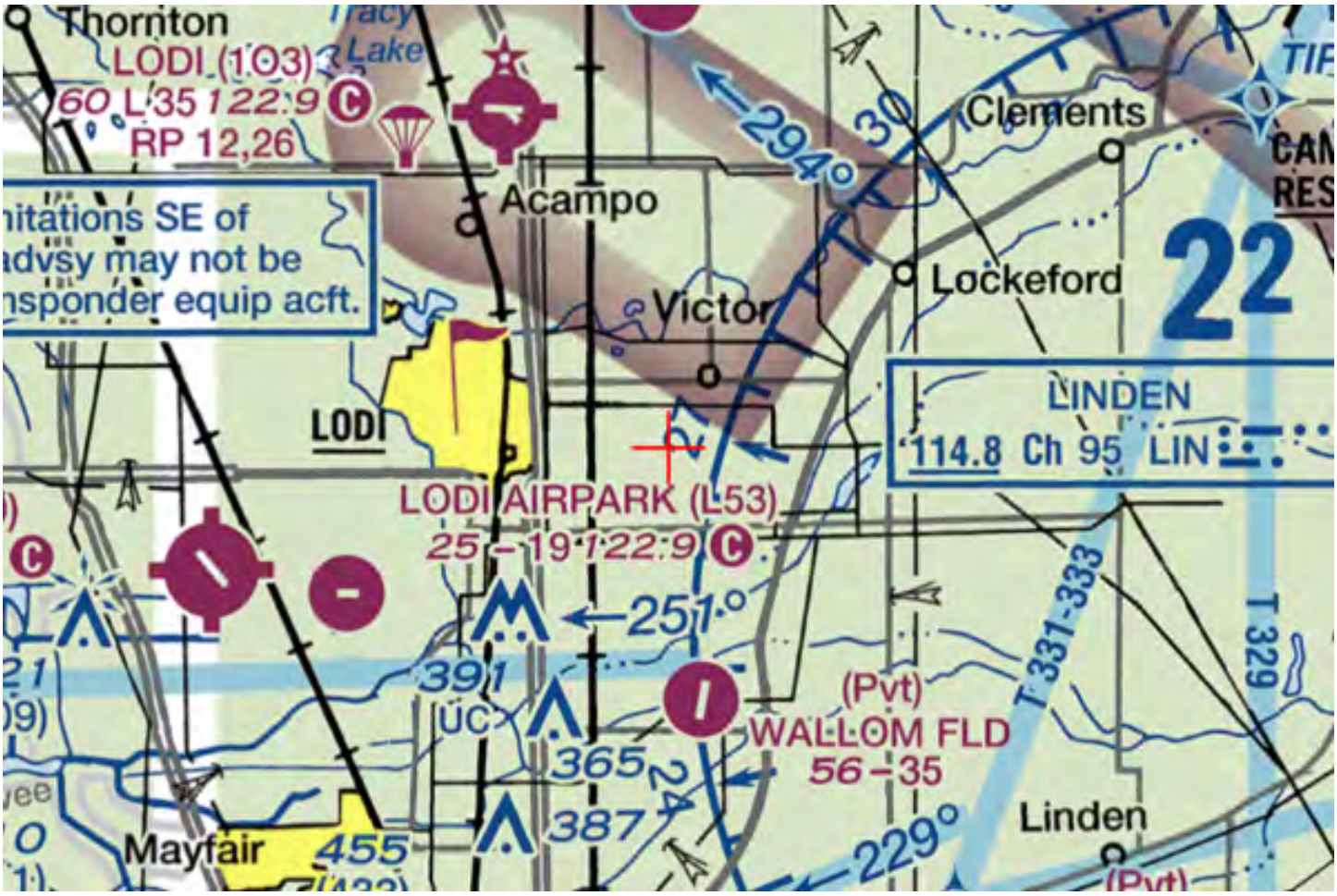
Signature Control No: 521428046-526158850 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7203-OE



Sectional Map for ASN 2022-AWP-7203-OE



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Aeronautical Study No.
2022-AWP-7204-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-22
Location:	Woodbridge, CA
Latitude:	38-07-16.59N NAD 83
Longitude:	121-12-54.99W
Heights:	67 feet site elevation (SE) 130 feet above ground level (AGL) 197 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7204-OE.

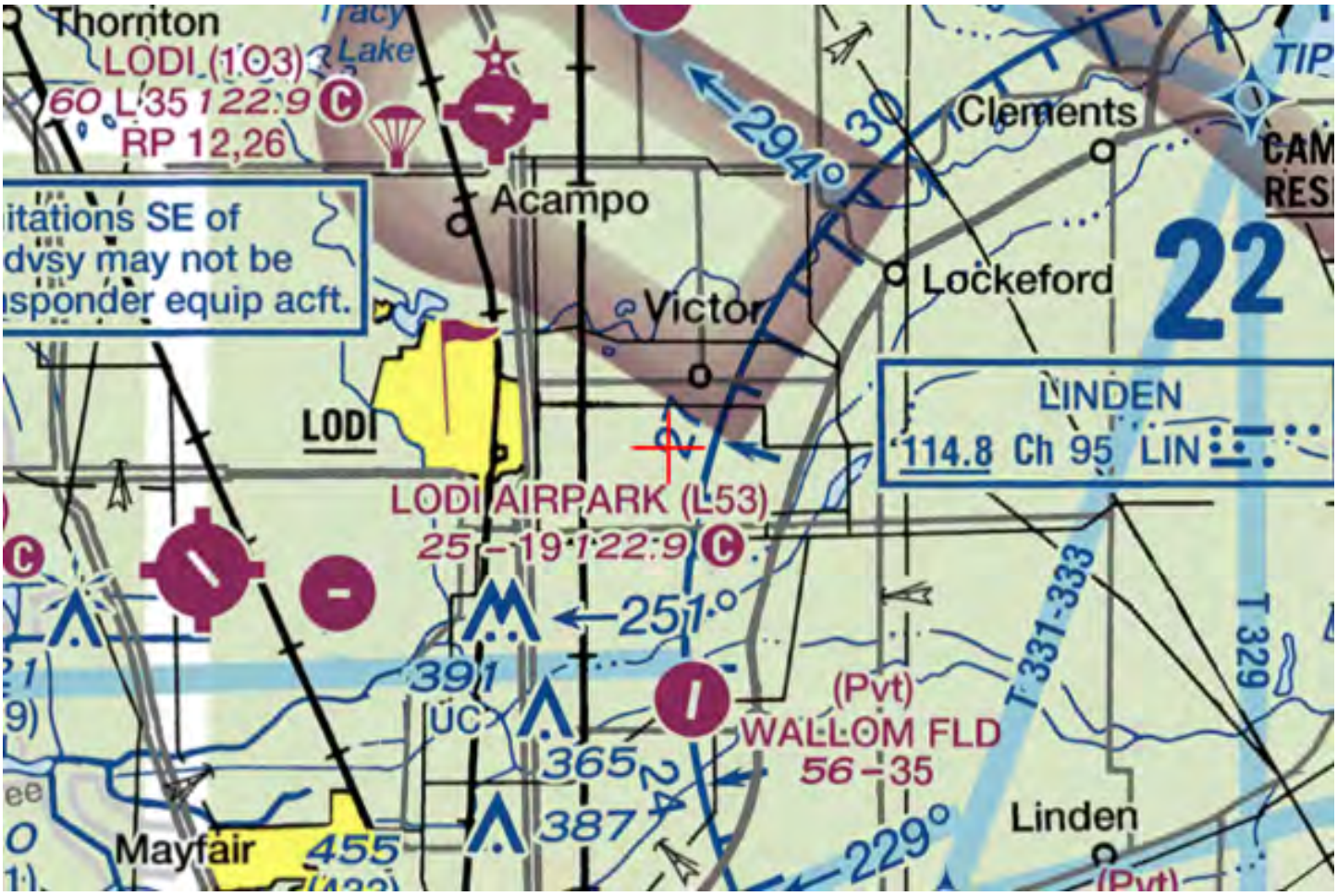
Signature Control No: 521428048-526158842 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7204-OE



Sectional Map for ASN 2022-AWP-7204-OE



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Aeronautical Study No.
2022-AWP-7205-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-23
Location:	Woodbridge, CA
Latitude:	38-07-17.00N NAD 83
Longitude:	121-12-47.53W
Heights:	68 feet site elevation (SE) 120 feet above ground level (AGL) 188 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7205-OE.

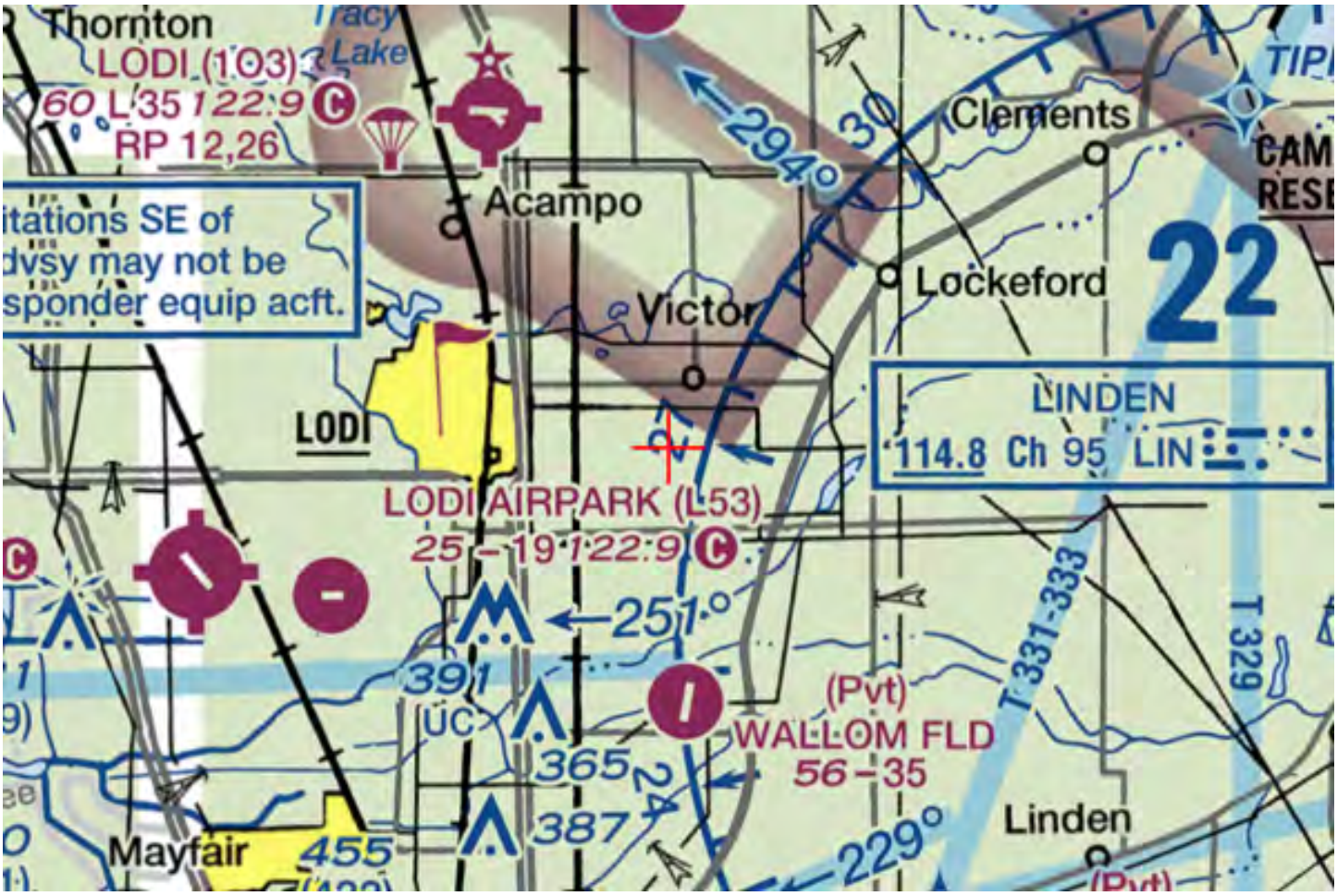
Signature Control No: 521428050-526158853 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7205-OE



Sectional Map for ASN 2022-AWP-7205-OE



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Aeronautical Study No.
2022-AWP-7206-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-24
Location:	Woodbridge, CA
Latitude:	38-07-17.53N NAD 83
Longitude:	121-12-37.96W
Heights:	69 feet site elevation (SE) 120 feet above ground level (AGL) 189 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7206-OE.

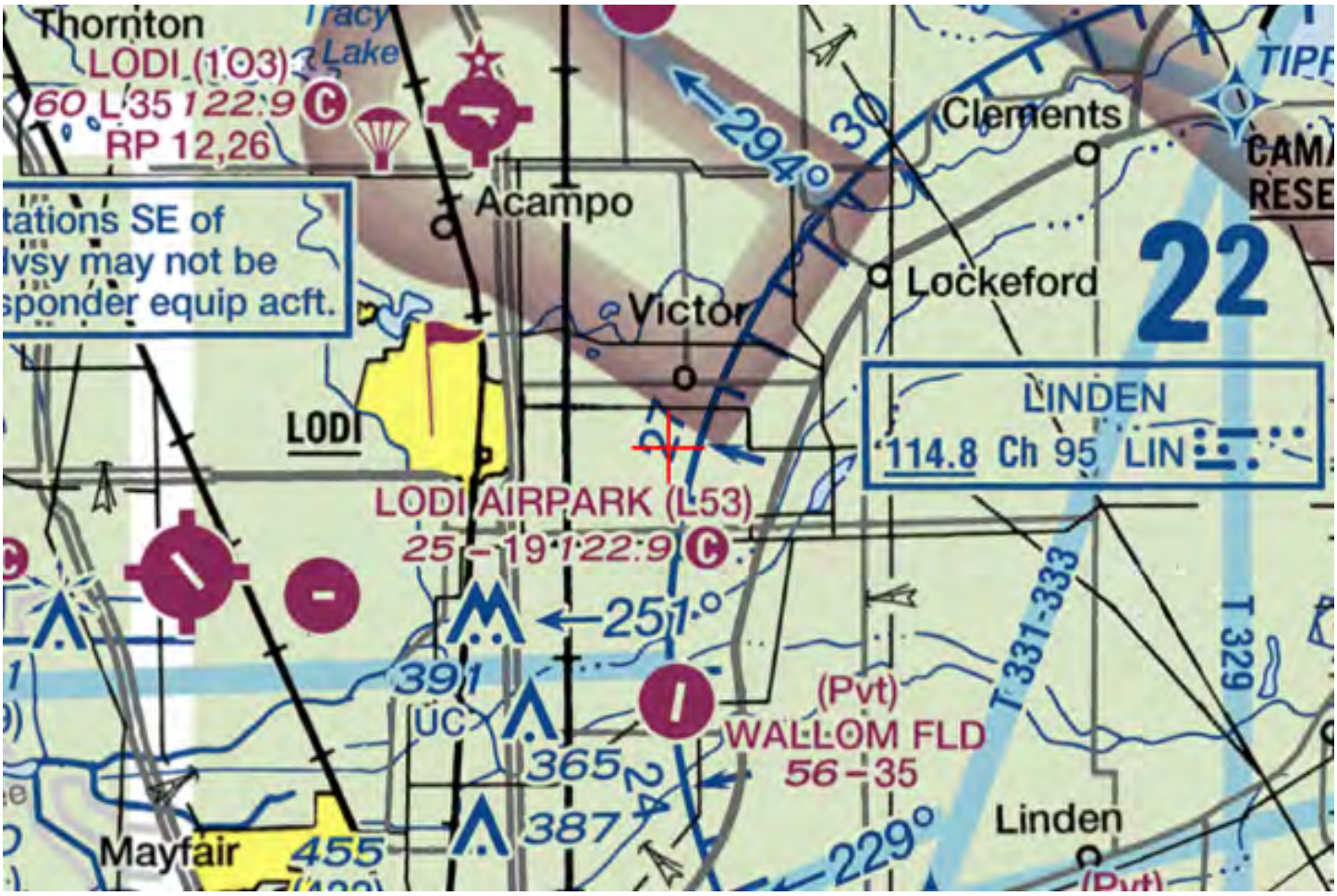
Signature Control No: 521428051-526158851 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7206-OE



Sectional Map for ASN 2022-AWP-7206-OE



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Aeronautical Study No.
2022-AWP-7207-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-25
Location:	Woodbridge, CA
Latitude:	38-07-17.54N NAD 83
Longitude:	121-12-29.29W
Heights:	70 feet site elevation (SE)
	120 feet above ground level (AGL)
	190 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7207-OE.

Signature Control No: 521428053-526158856 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7207-OE



Sectional Map for ASN 2022-AWP-7207-OE



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Aeronautical Study No.
2022-AWP-7208-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-26
Location:	Woodbridge, CA
Latitude:	38-07-17.55N NAD 83
Longitude:	121-12-20.52W
Heights:	70 feet site elevation (SE)
	135 feet above ground level (AGL)
	205 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7208-OE.

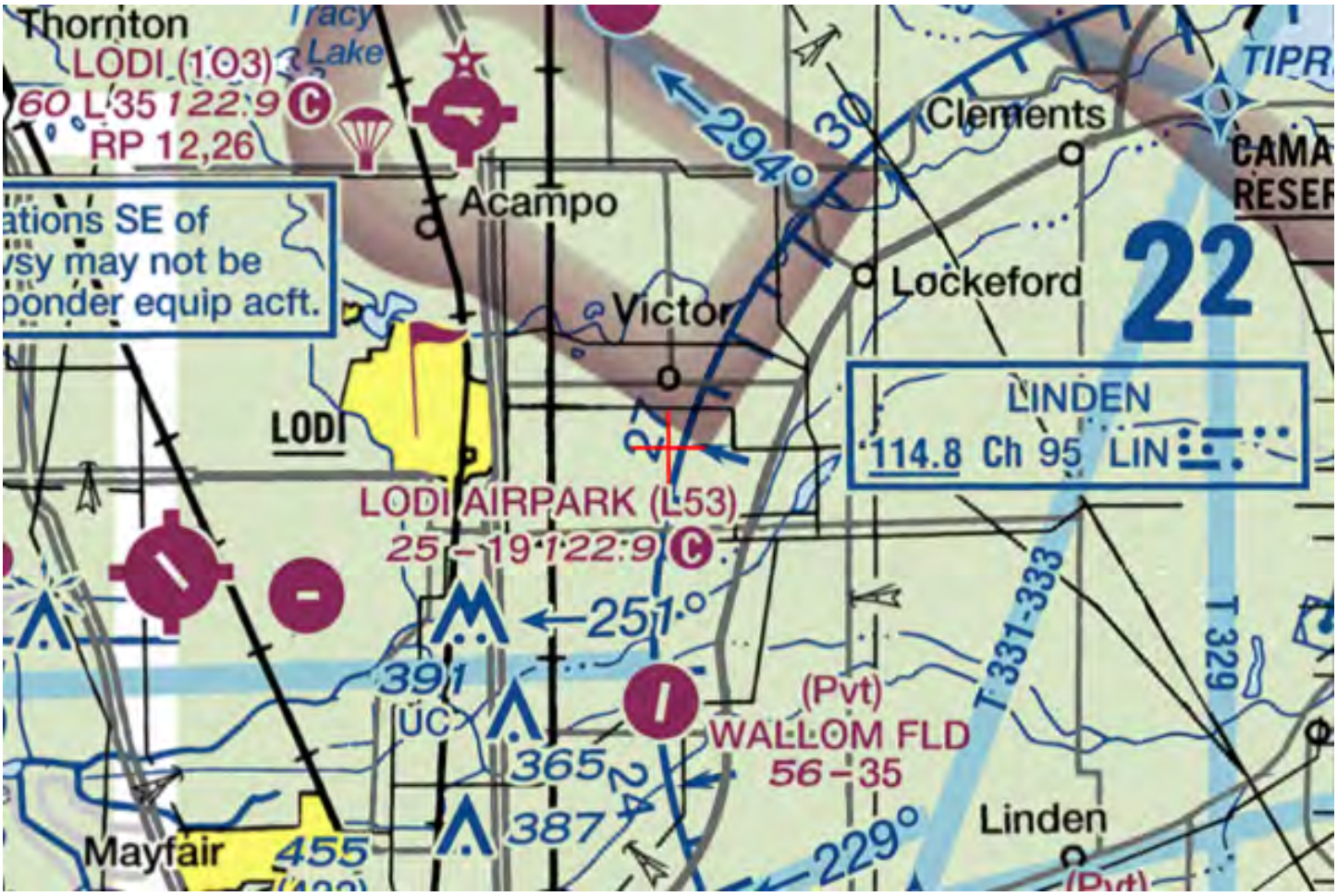
Signature Control No: 521428055-526158855 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7208-OE



Sectional Map for ASN 2022-AWP-7208-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7209-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-27
Location:	Woodbridge, CA
Latitude:	38-07-09.81N NAD 83
Longitude:	121-12-20.43W
Heights:	70 feet site elevation (SE)
	135 feet above ground level (AGL)
	205 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7209-OE.

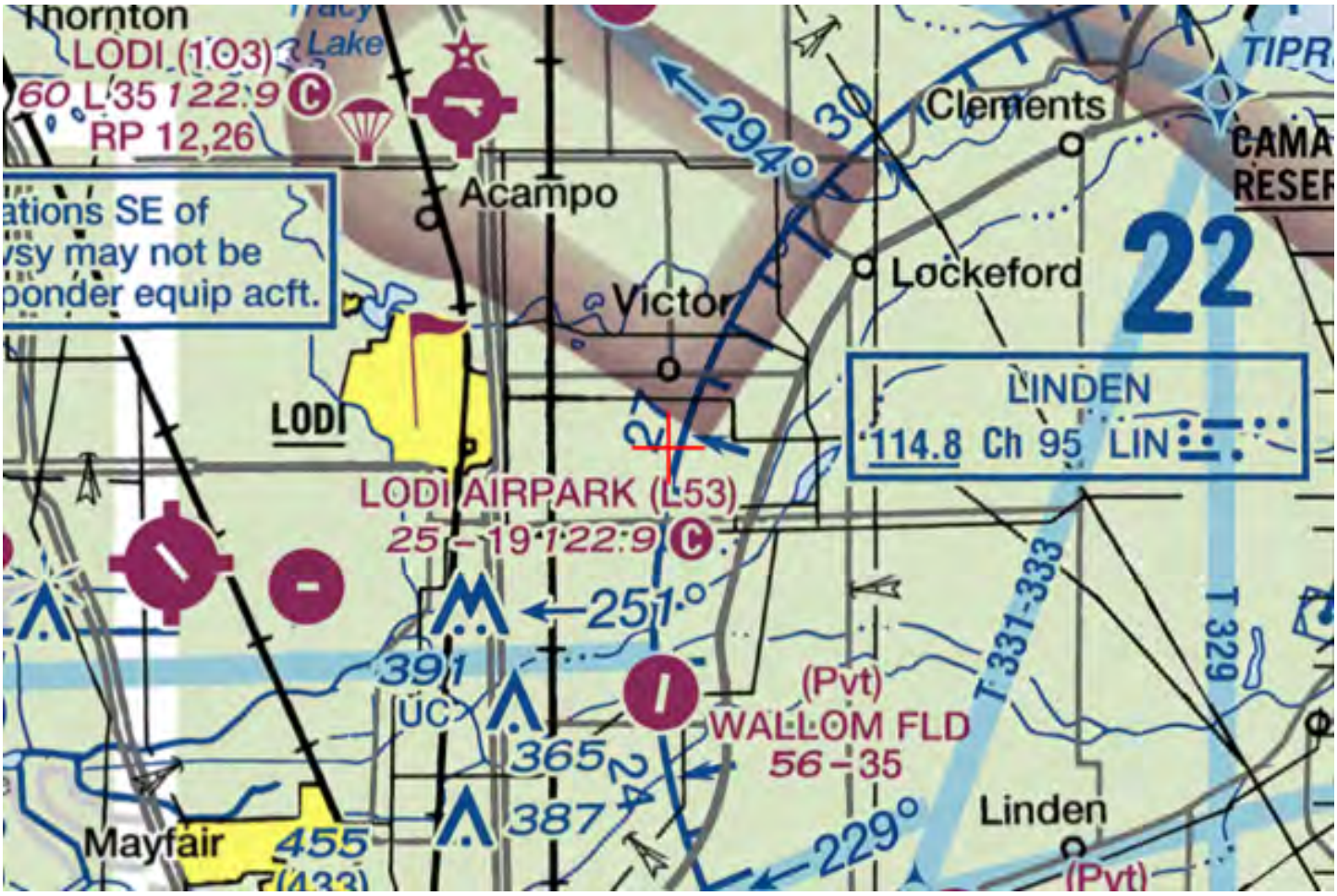
Signature Control No: 521428056-526158841 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7209-OE



Sectional Map for ASN 2022-AWP-7209-OE



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Federal Aviation Administration
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Aeronautical Study No.
2022-AWP-7210-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-28
Location:	Woodbridge, CA
Latitude:	38-07-09.92N NAD 83
Longitude:	121-12-10.44W
Heights:	70 feet site elevation (SE)
	120 feet above ground level (AGL)
	190 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7210-OE.

Signature Control No: 521428058-526158846 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7210-OE



Sectional Map for ASN 2022-AWP-7210-OE



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Obstruction Evaluation Group
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Aeronautical Study No.
2022-AWP-7211-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-29
Location:	Woodbridge, CA
Latitude:	38-07-10.03N NAD 83
Longitude:	121-12-00.39W
Heights:	71 feet site elevation (SE)
	120 feet above ground level (AGL)
	191 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7211-OE.

Signature Control No: 521428059-526158858 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7211-OE



Sectional Map for ASN 2022-AWP-7211-OE



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Aeronautical Study No.
2022-AWP-7212-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-30
Location:	Woodbridge, CA
Latitude:	38-07-10.13N NAD 83
Longitude:	121-11-50.40W
Heights:	72 feet site elevation (SE)
	120 feet above ground level (AGL)
	192 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7212-OE.

Signature Control No: 521428061-526158849 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7212-OE



Sectional Map for ASN 2022-AWP-7212-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7213-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-31
Location:	Woodbridge, CA
Latitude:	38-07-10.24N NAD 83
Longitude:	121-11-40.38W
Heights:	74 feet site elevation (SE) 120 feet above ground level (AGL) 194 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7213-OE.

Signature Control No: 521428063-526158857 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7213-OE



Sectional Map for ASN 2022-AWP-7213-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7214-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-32
Location:	Woodbridge, CA
Latitude:	38-07-10.34N NAD 83
Longitude:	121-11-30.78W
Heights:	74 feet site elevation (SE)
	120 feet above ground level (AGL)
	194 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7214-OE.

Signature Control No: 521428064-526158847 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7214-OE



Sectional Map for ASN 2022-AWP-7214-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
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Aeronautical Study No.
2022-AWP-7215-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-33
Location:	Woodbridge, CA
Latitude:	38-07-10.44N NAD 83
Longitude:	121-11-21.79W
Heights:	75 feet site elevation (SE)
	120 feet above ground level (AGL)
	195 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7215-OE.

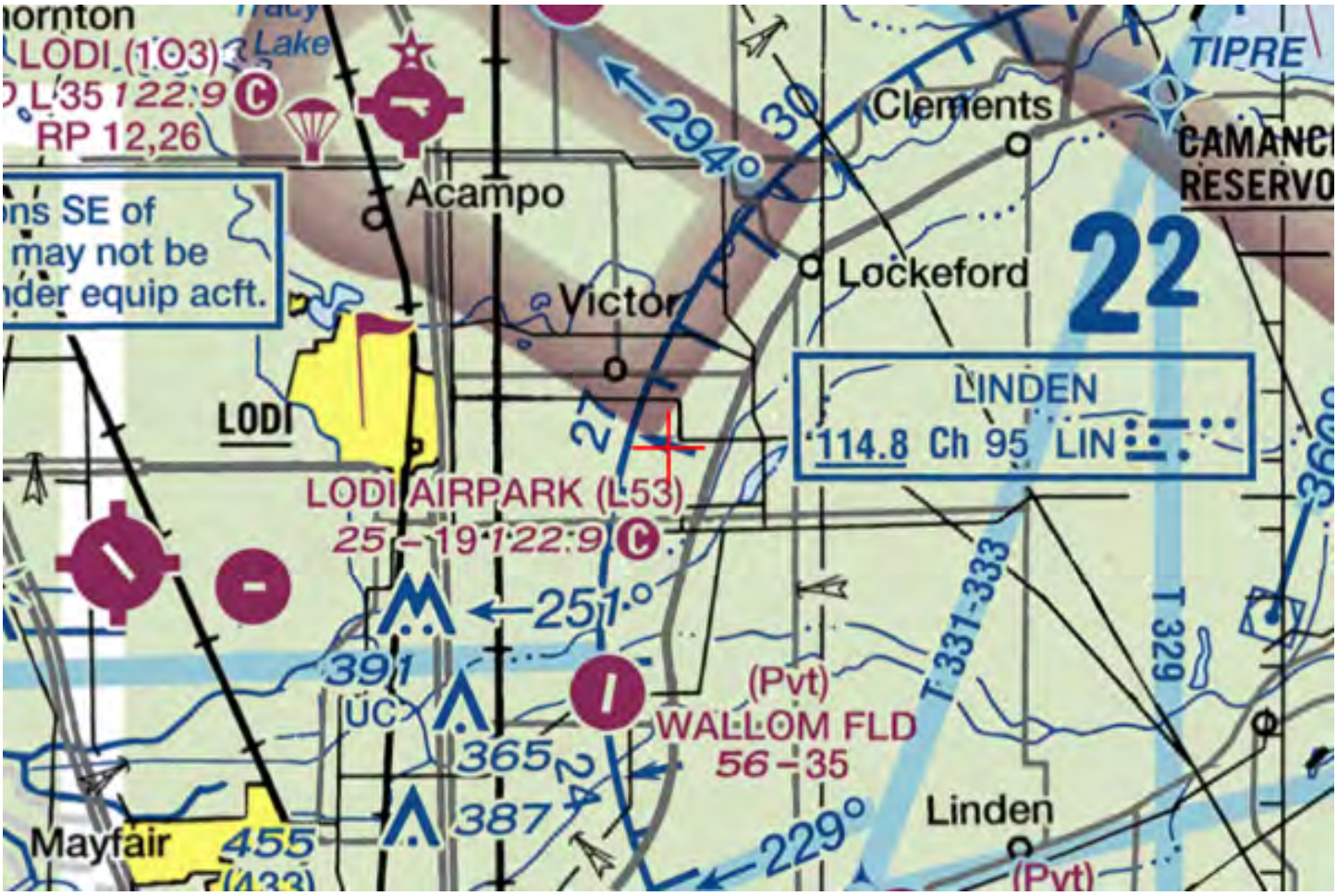
Signature Control No: 521428066-526159401 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7215-OE



Sectional Map for ASN 2022-AWP-7215-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7216-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-34
Location:	Woodbridge, CA
Latitude:	38-07-10.51N NAD 83
Longitude:	121-11-14.41W
Heights:	75 feet site elevation (SE)
	130 feet above ground level (AGL)
	205 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7216-OE.

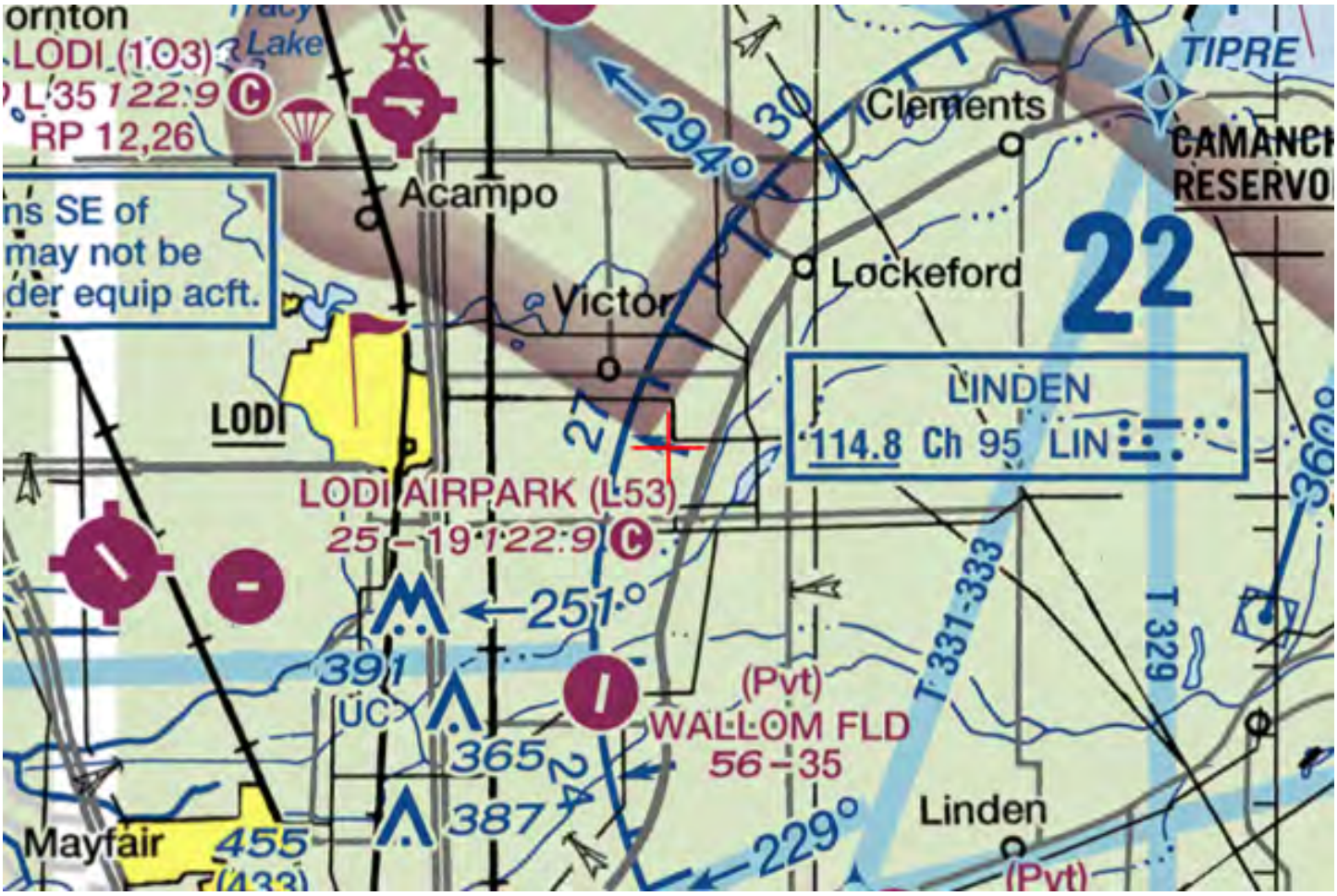
Signature Control No: 521428067-526159396 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7216-OE



Sectional Map for ASN 2022-AWP-7216-OE



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Federal Aviation Administration
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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7217-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-35
Location:	Woodbridge, CA
Latitude:	38-07-10.62N NAD 83
Longitude:	121-11-03.98W
Heights:	76 feet site elevation (SE)
	120 feet above ground level (AGL)
	196 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7217-OE.

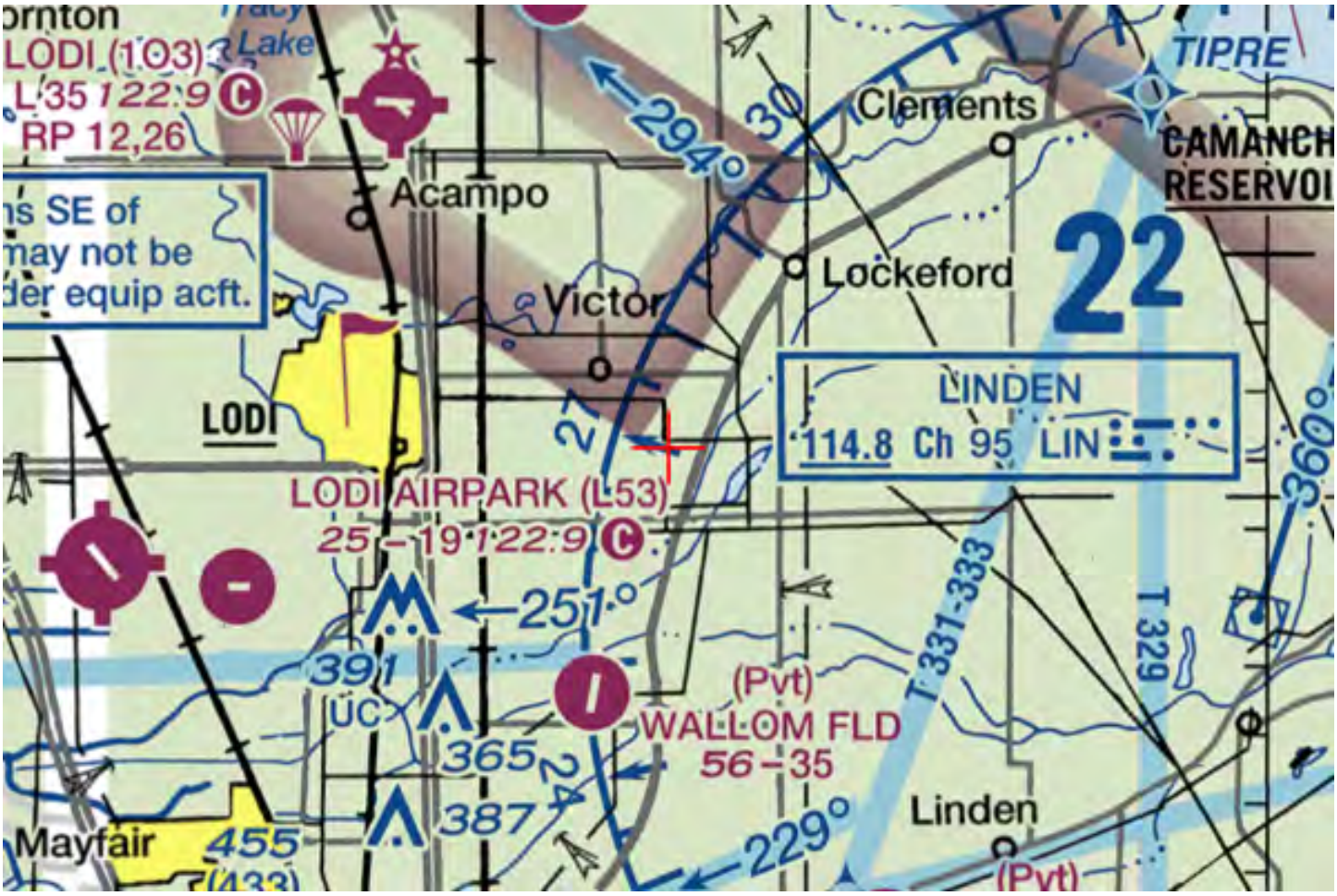
Signature Control No: 521428069-526159392 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7217-OE



Sectional Map for ASN 2022-AWP-7217-OE



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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7218-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-36
Location:	Woodbridge, CA
Latitude:	38-07-10.72N NAD 83
Longitude:	121-10-54.53W
Heights:	77 feet site elevation (SE)
	120 feet above ground level (AGL)
	197 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

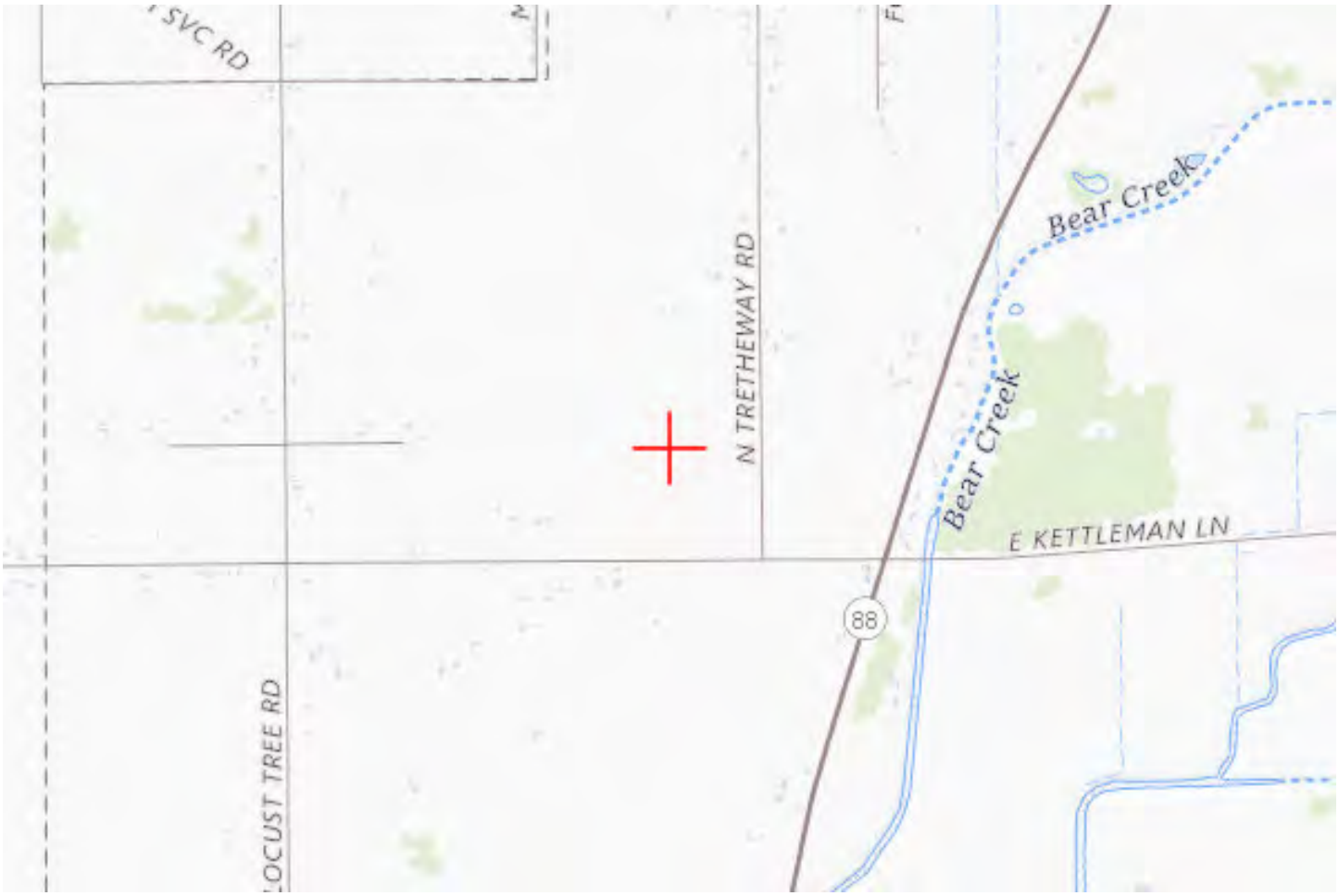
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7218-OE.

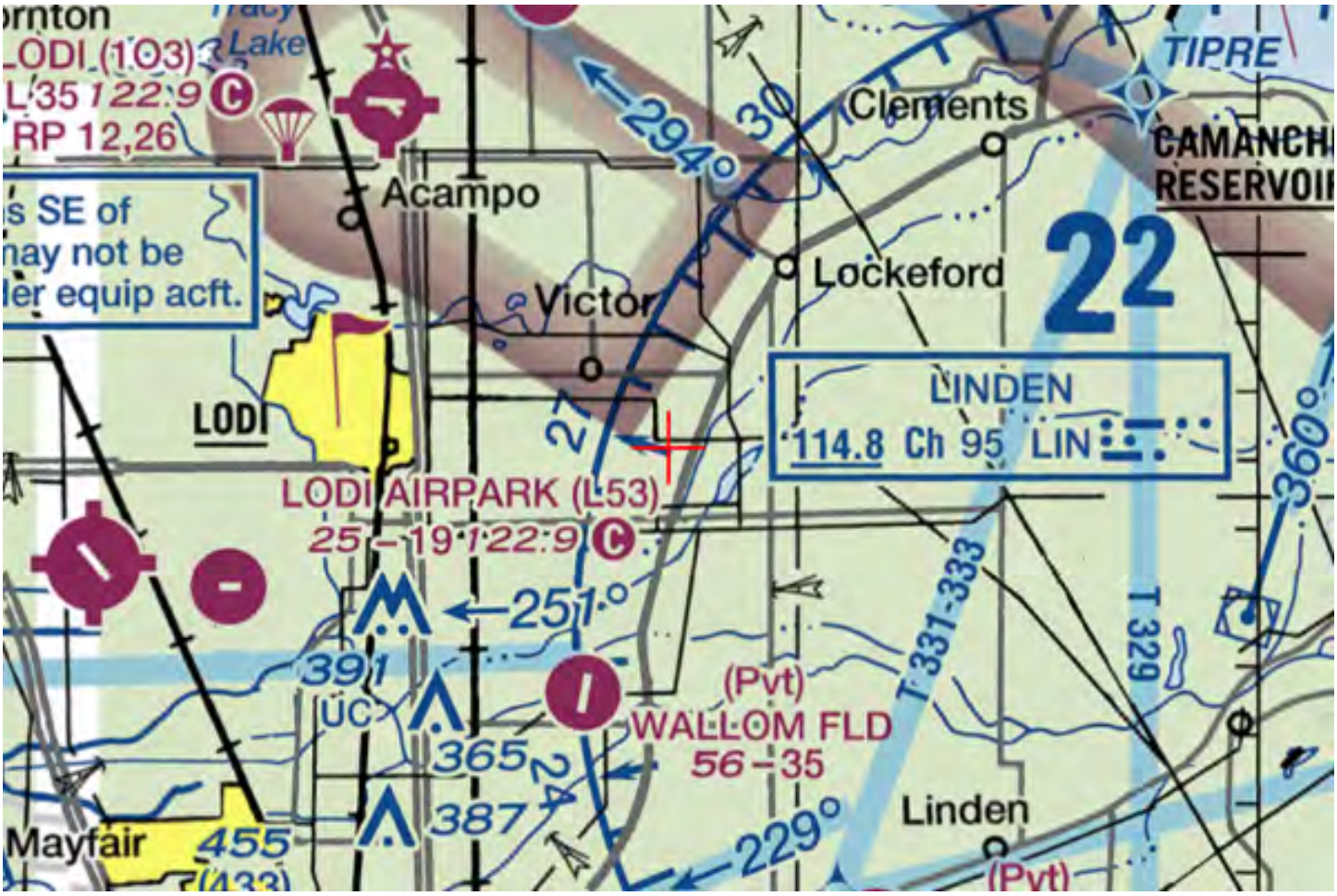
Signature Control No: 521428070-526159400 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7218-OE



Sectional Map for ASN 2022-AWP-7218-OE



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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7219-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-37
Location:	Woodbridge, CA
Latitude:	38-07-04.84N NAD 83
Longitude:	121-10-54.47W
Heights:	76 feet site elevation (SE)
	130 feet above ground level (AGL)
	206 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

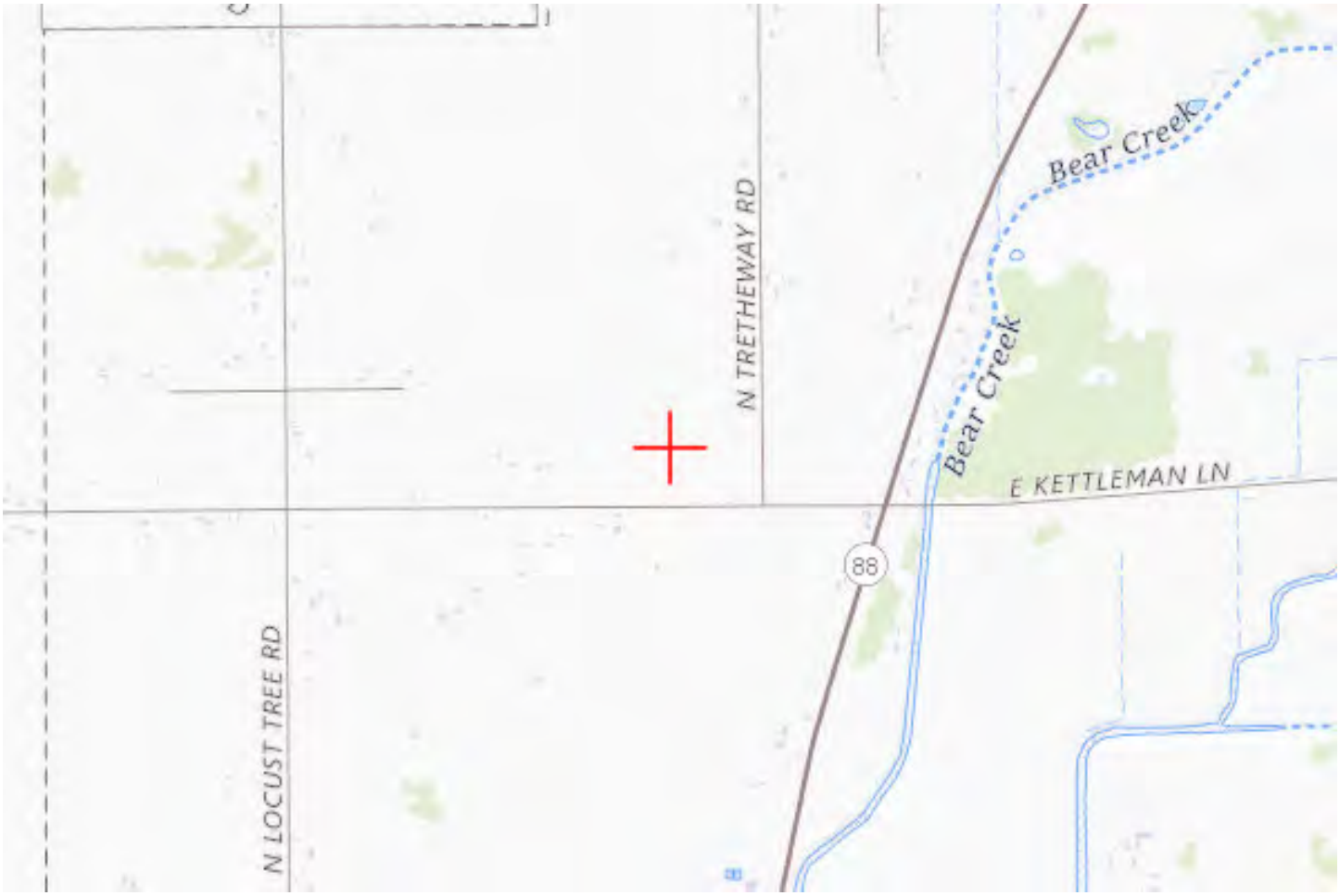
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7219-OE.

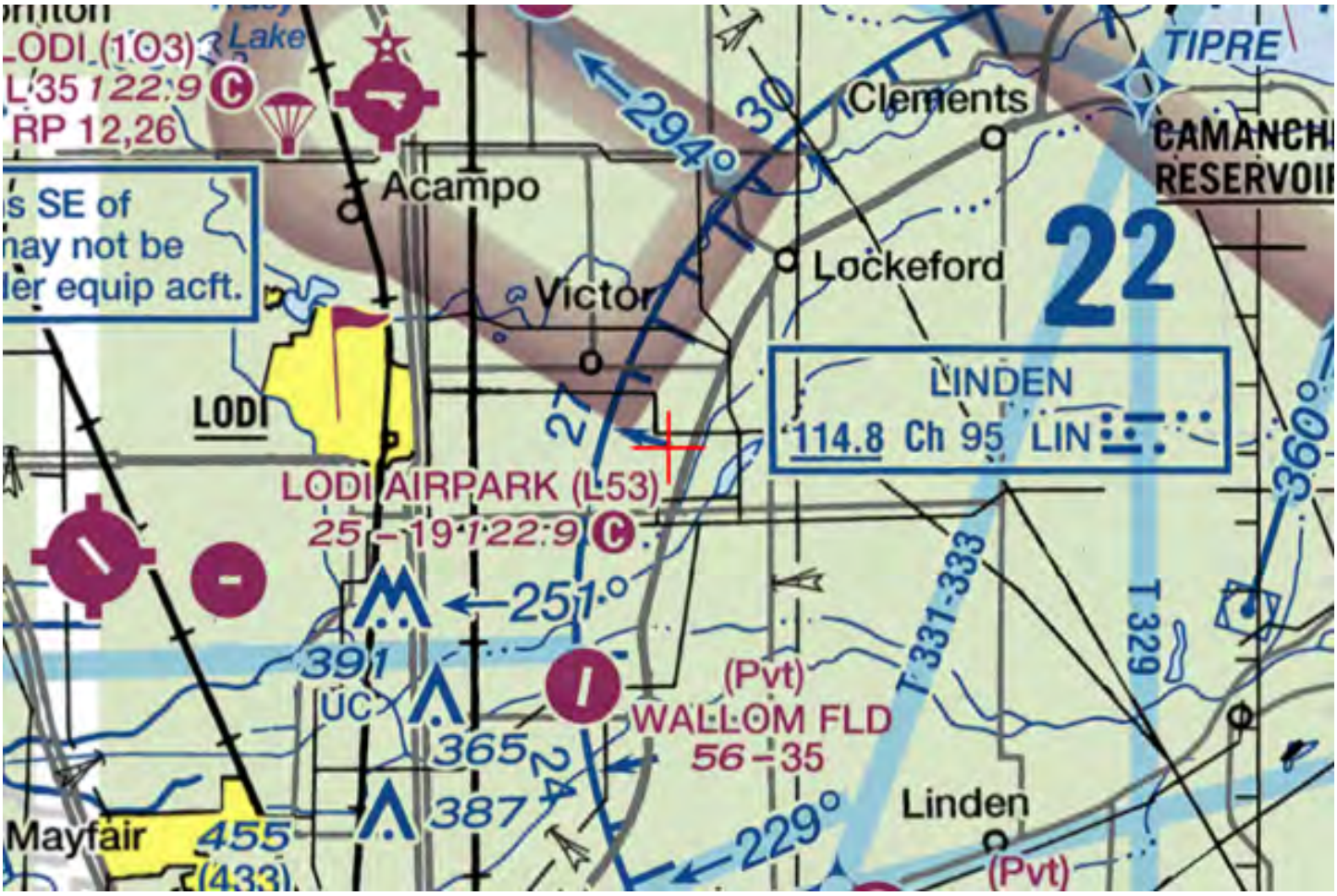
Signature Control No: 521428072-526159394 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7219-OE



Sectional Map for ASN 2022-AWP-7219-OE



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Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7220-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-38
Location:	Woodbridge, CA
Latitude:	38-06-58.13N NAD 83
Longitude:	121-10-54.40W
Heights:	75 feet site elevation (SE)
	130 feet above ground level (AGL)
	205 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7220-OE.

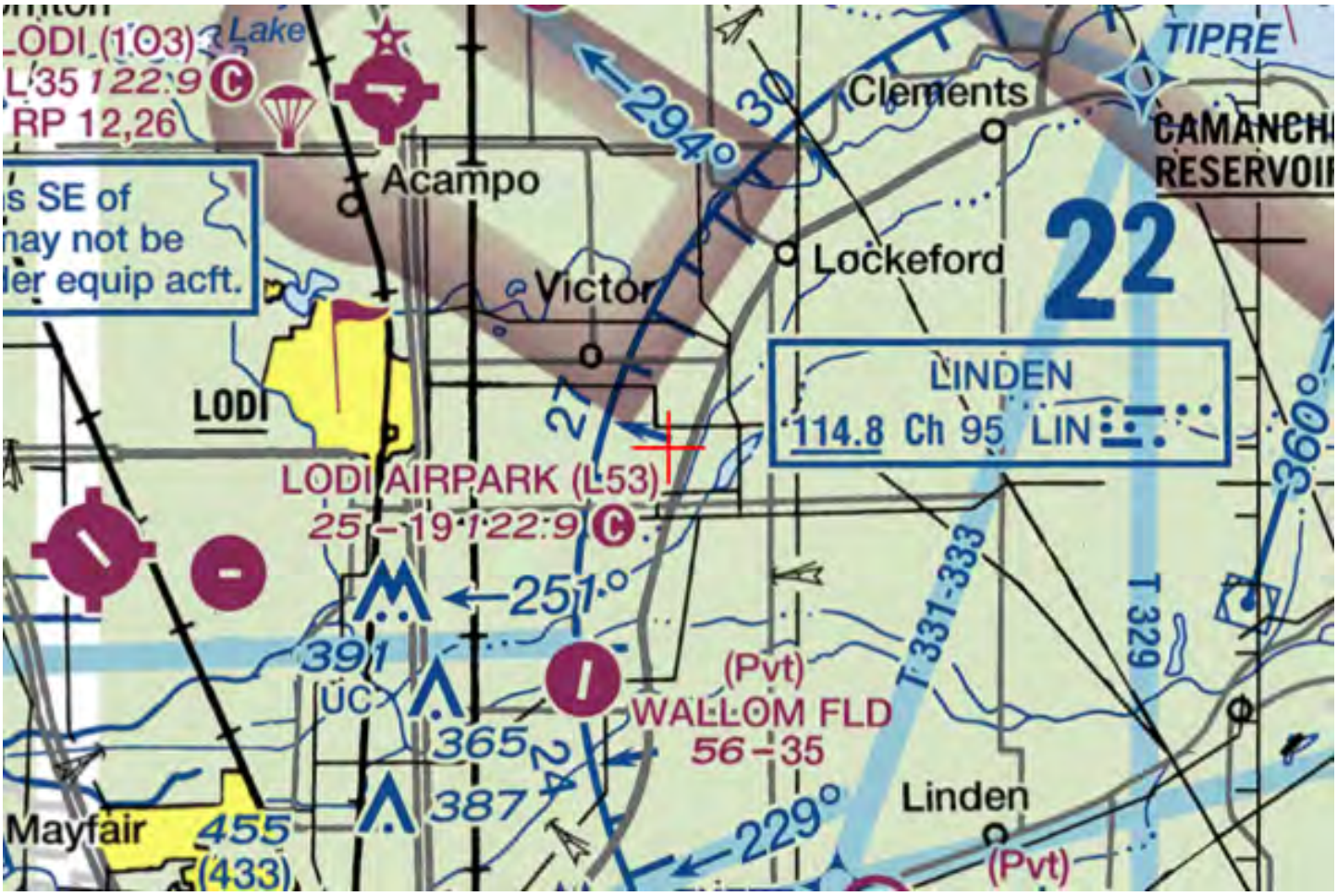
Signature Control No: 521428074-526159395 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7220-OE



Sectional Map for ASN 2022-AWP-7220-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7221-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-39
Location:	Woodbridge, CA
Latitude:	38-06-58.19N NAD 83
Longitude:	121-10-44.62W
Heights:	76 feet site elevation (SE)
	130 feet above ground level (AGL)
	206 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7221-OE.

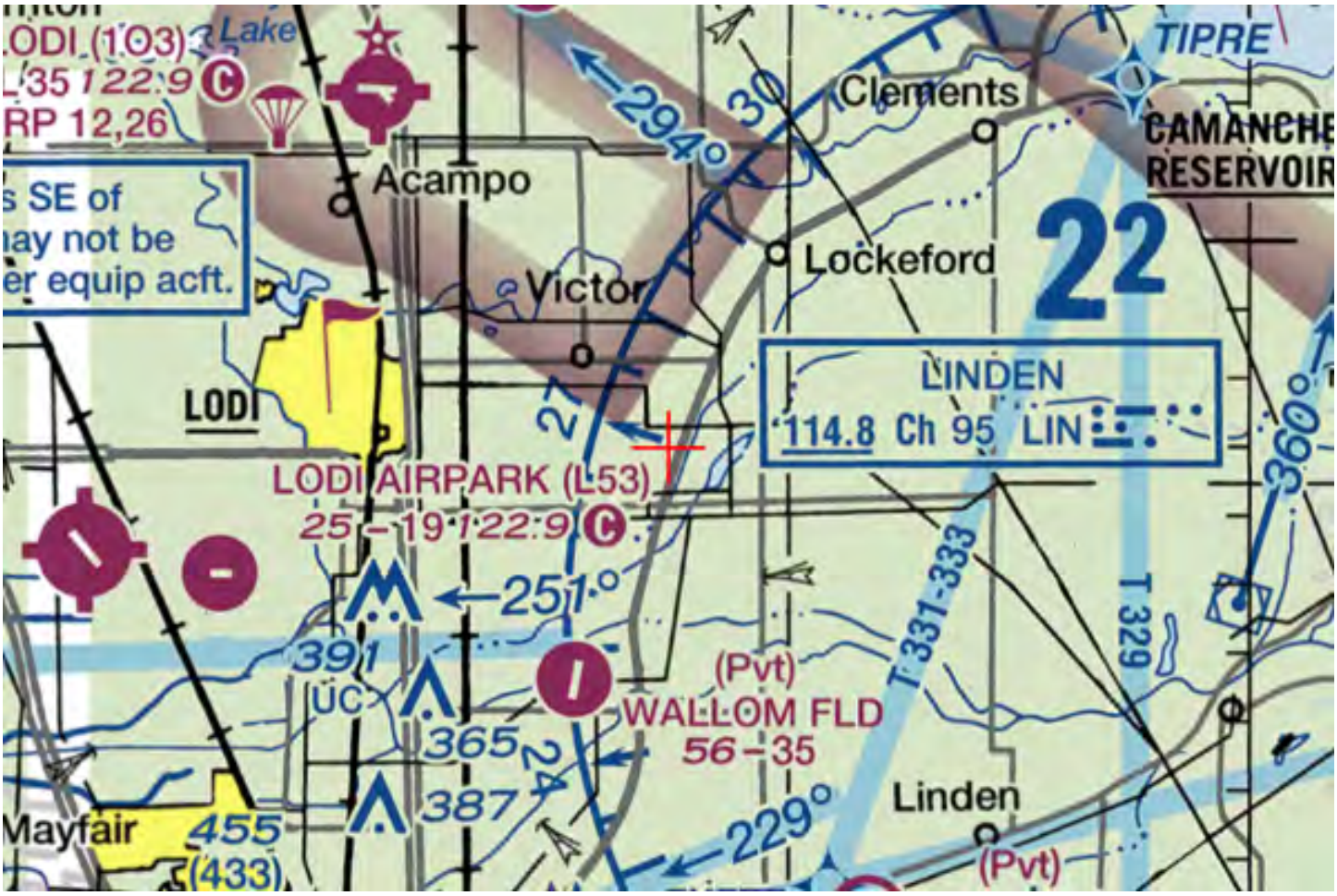
Signature Control No: 521428075-526159399 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7221-OE



Sectional Map for ASN 2022-AWP-7221-OE



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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7222-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-40
Location:	Woodbridge, CA
Latitude:	38-06-58.26N NAD 83
Longitude:	121-10-34.26W
Heights:	77 feet site elevation (SE)
	140 feet above ground level (AGL)
	217 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

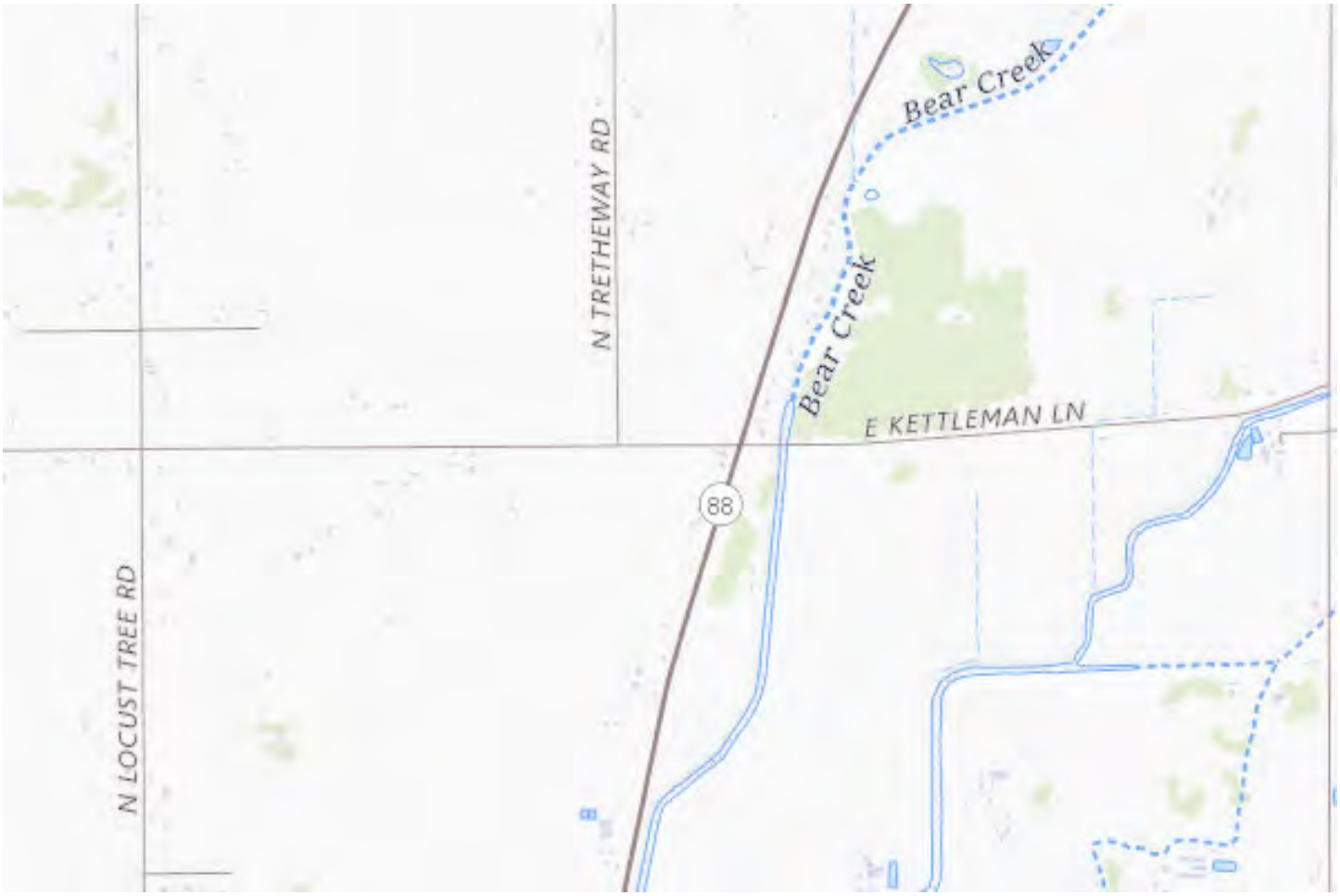
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7222-OE.

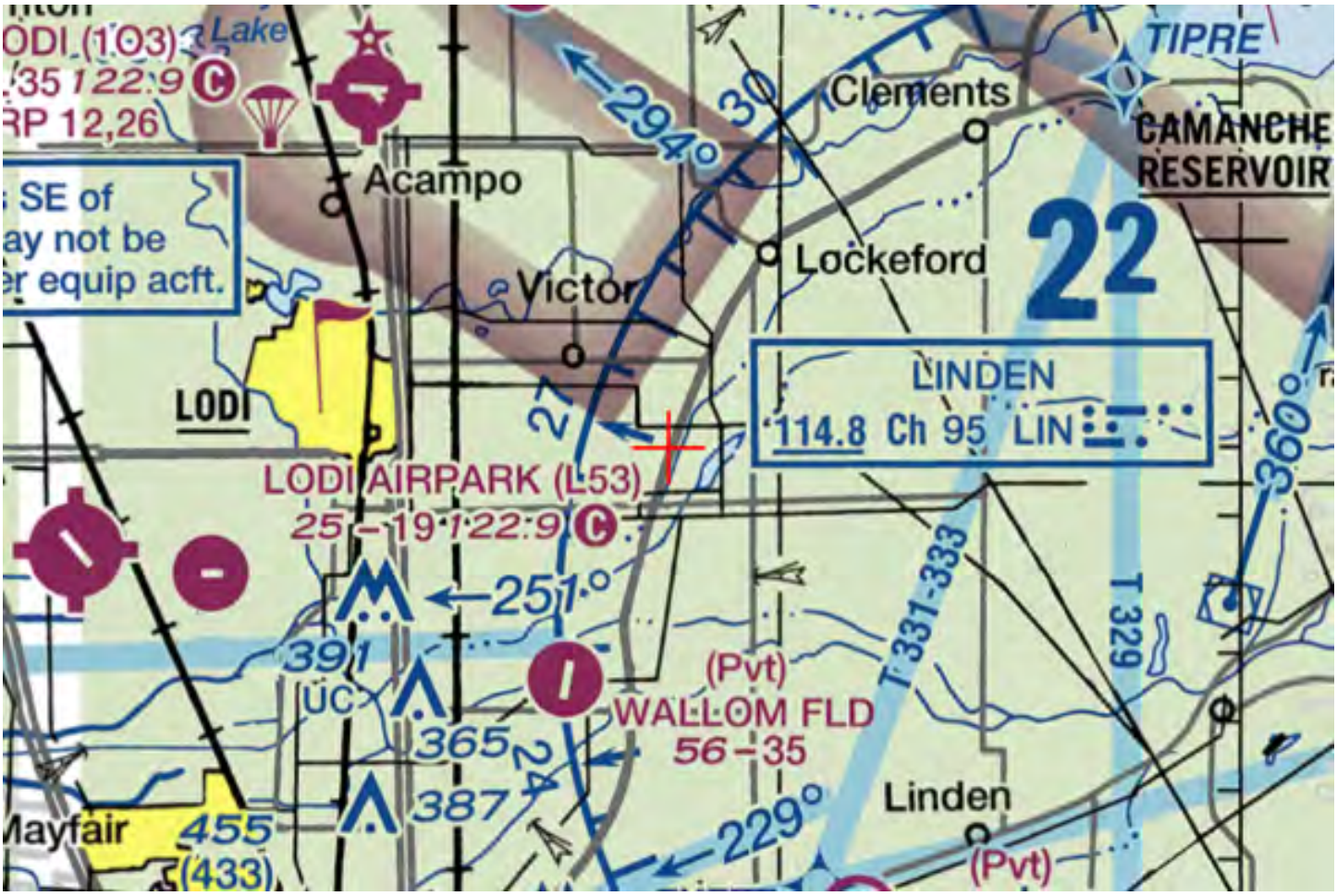
Signature Control No: 521428077-526159393 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7222-OE



Sectional Map for ASN 2022-AWP-7222-OE



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Aeronautical Study No.
2022-AWP-7223-OE

Issued Date: 04/26/2022

Andrew Davies
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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-41
Location:	Woodbridge, CA
Latitude:	38-06-58.33N NAD 83
Longitude:	121-10-23.95W
Heights:	78 feet site elevation (SE) 140 feet above ground level (AGL) 218 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7223-OE.

Signature Control No: 521428078-526159398 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7223-OE



Sectional Map for ASN 2022-AWP-7223-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
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Aeronautical Study No.
2022-AWP-7224-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-42
Location:	Woodbridge, CA
Latitude:	38-06-58.37N NAD 83
Longitude:	121-10-16.99W
Heights:	78 feet site elevation (SE) 120 feet above ground level (AGL) 198 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

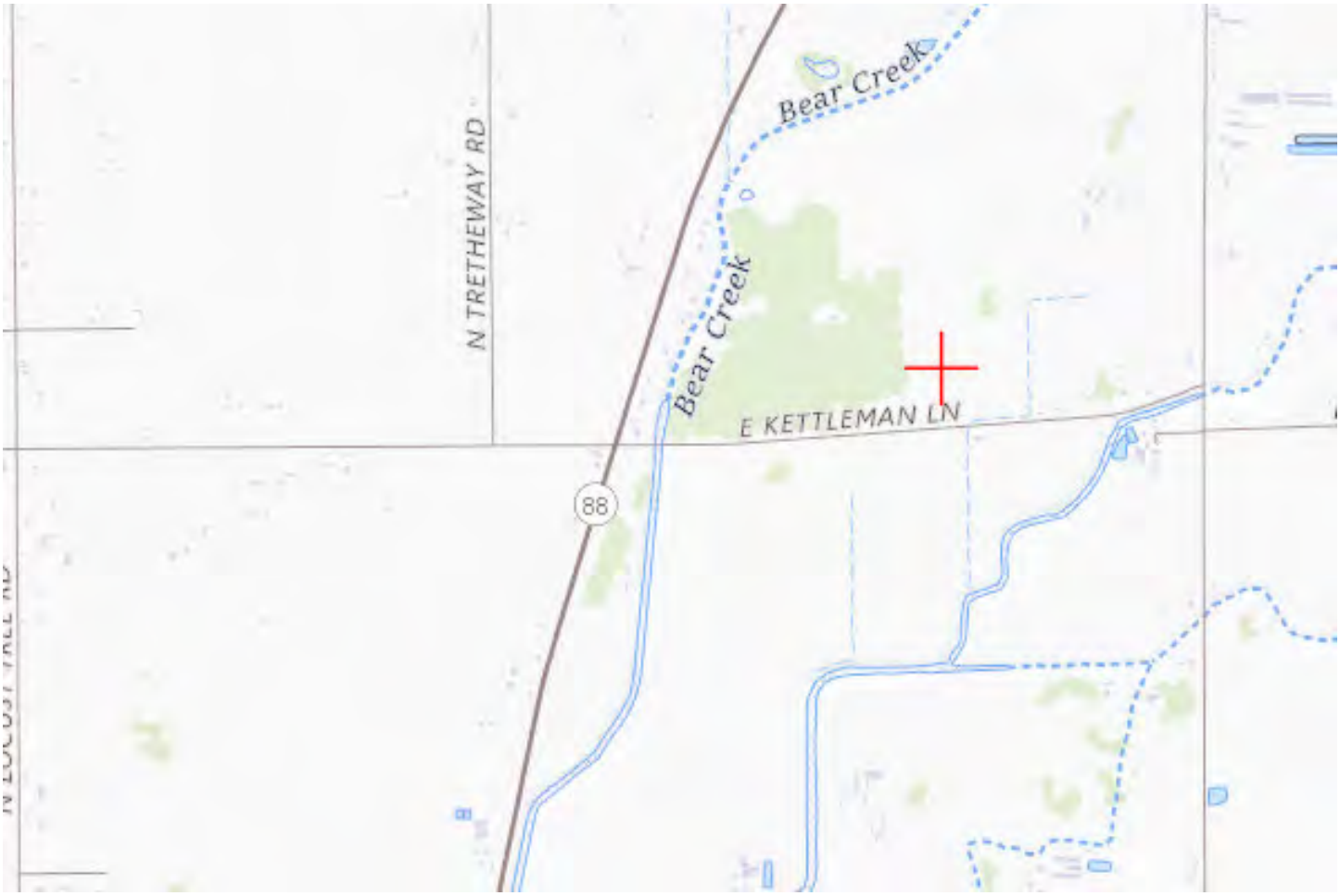
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7224-OE.

Signature Control No: 521428080-526159403 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7224-OE



Sectional Map for ASN 2022-AWP-7224-OE



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Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7225-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-43
Location:	Woodbridge, CA
Latitude:	38-06-58.43N NAD 83
Longitude:	121-10-08.99W
Heights:	79 feet site elevation (SE) 130 feet above ground level (AGL) 209 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7225-OE.

Signature Control No: 521428081-526159397 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7225-OE



Sectional Map for ASN 2022-AWP-7225-OE



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Aeronautical Study No.
2022-AWP-7226-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-44
Location:	Woodbridge, CA
Latitude:	38-06-58.86N NAD 83
Longitude:	121-10-00.47W
Heights:	80 feet site elevation (SE)
	130 feet above ground level (AGL)
	210 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7226-OE.

Signature Control No: 521428083-526159402 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7226-OE



Sectional Map for ASN 2022-AWP-7226-OE



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Aeronautical Study No.
2022-AWP-7227-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-45
Location:	Woodbridge, CA
Latitude:	38-06-59.26N NAD 83
Longitude:	121-09-52.55W
Heights:	80 feet site elevation (SE)
	120 feet above ground level (AGL)
	200 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7227-OE.

Signature Control No: 521428085-526160071 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7227-OE



Sectional Map for ASN 2022-AWP-7227-OE



Mail Processing Center
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Aeronautical Study No.
2022-AWP-7228-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-46
Location:	Woodbridge, CA
Latitude:	38-06-59.57N NAD 83
Longitude:	121-09-46.35W
Heights:	81 feet site elevation (SE) 120 feet above ground level (AGL) 201 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7228-OE.

Signature Control No: 521428086-526160058 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7228-OE



Sectional Map for ASN 2022-AWP-7228-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7229-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-47
Location:	Woodbridge, CA
Latitude:	38-06-59.82N NAD 83
Longitude:	121-09-41.57W
Heights:	81 feet site elevation (SE) 145 feet above ground level (AGL) 226 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7229-OE.

Signature Control No: 521428088-526160063 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7229-OE



Sectional Map for ASN 2022-AWP-7229-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7230-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-48
Location:	Woodbridge, CA
Latitude:	38-07-03.73N NAD 83
Longitude:	121-09-41.94W
Heights:	84 feet site elevation (SE) 145 feet above ground level (AGL) 229 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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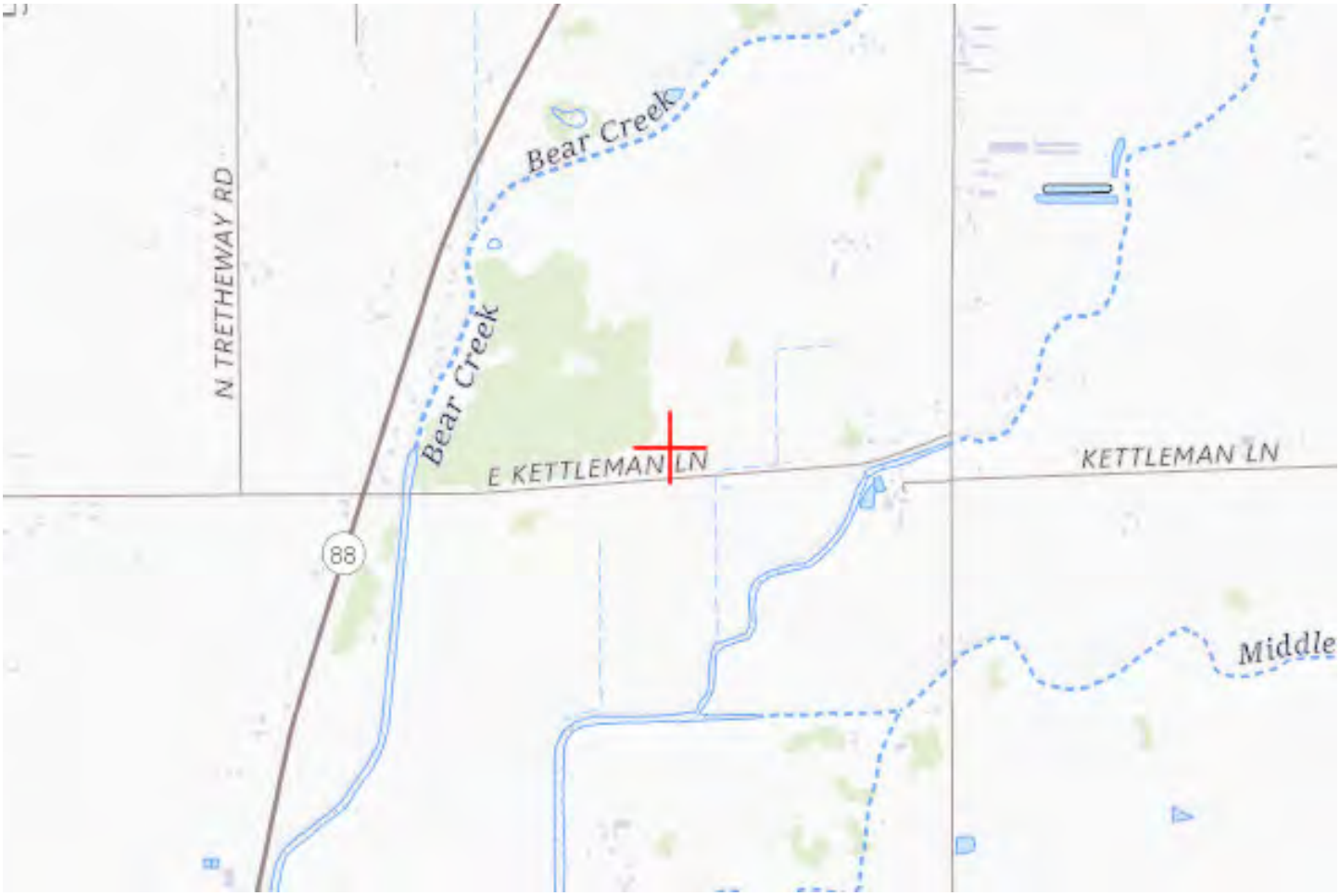
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7230-OE.

Signature Control No: 521428089-526160066 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7230-OE



Sectional Map for ASN 2022-AWP-7230-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7231-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-49
Location:	Woodbridge, CA
Latitude:	38-07-06.94N NAD 83
Longitude:	121-09-42.24W
Heights:	82 feet site elevation (SE) 120 feet above ground level (AGL) 202 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
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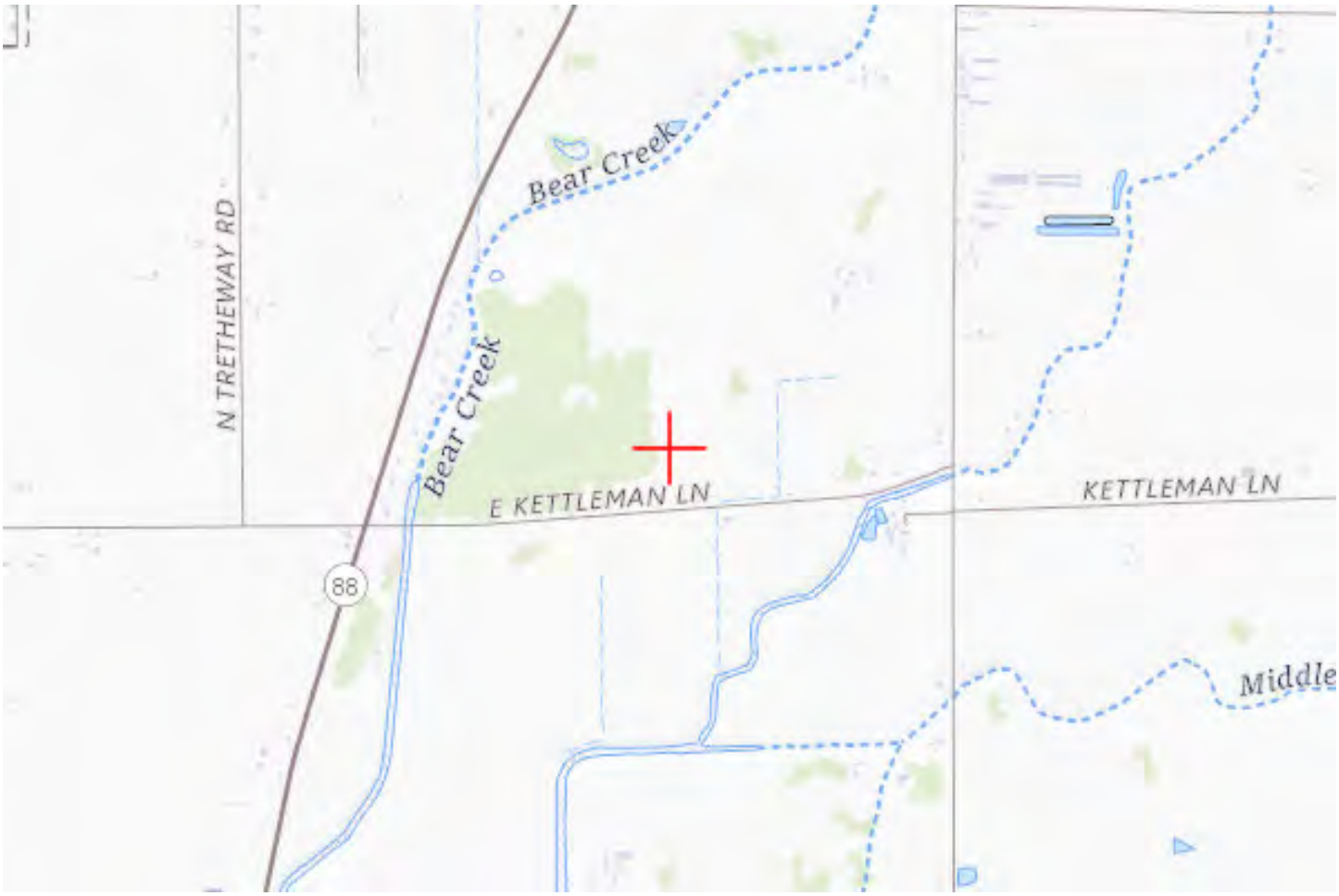
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7231-OE.

Signature Control No: 521428091-526160056 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7231-OE



Sectional Map for ASN 2022-AWP-7231-OE



Mail Processing Center
Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7232-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-50
Location:	Woodbridge, CA
Latitude:	38-07-07.10N NAD 83
Longitude:	121-09-39.43W
Heights:	83 feet site elevation (SE) 120 feet above ground level (AGL) 203 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

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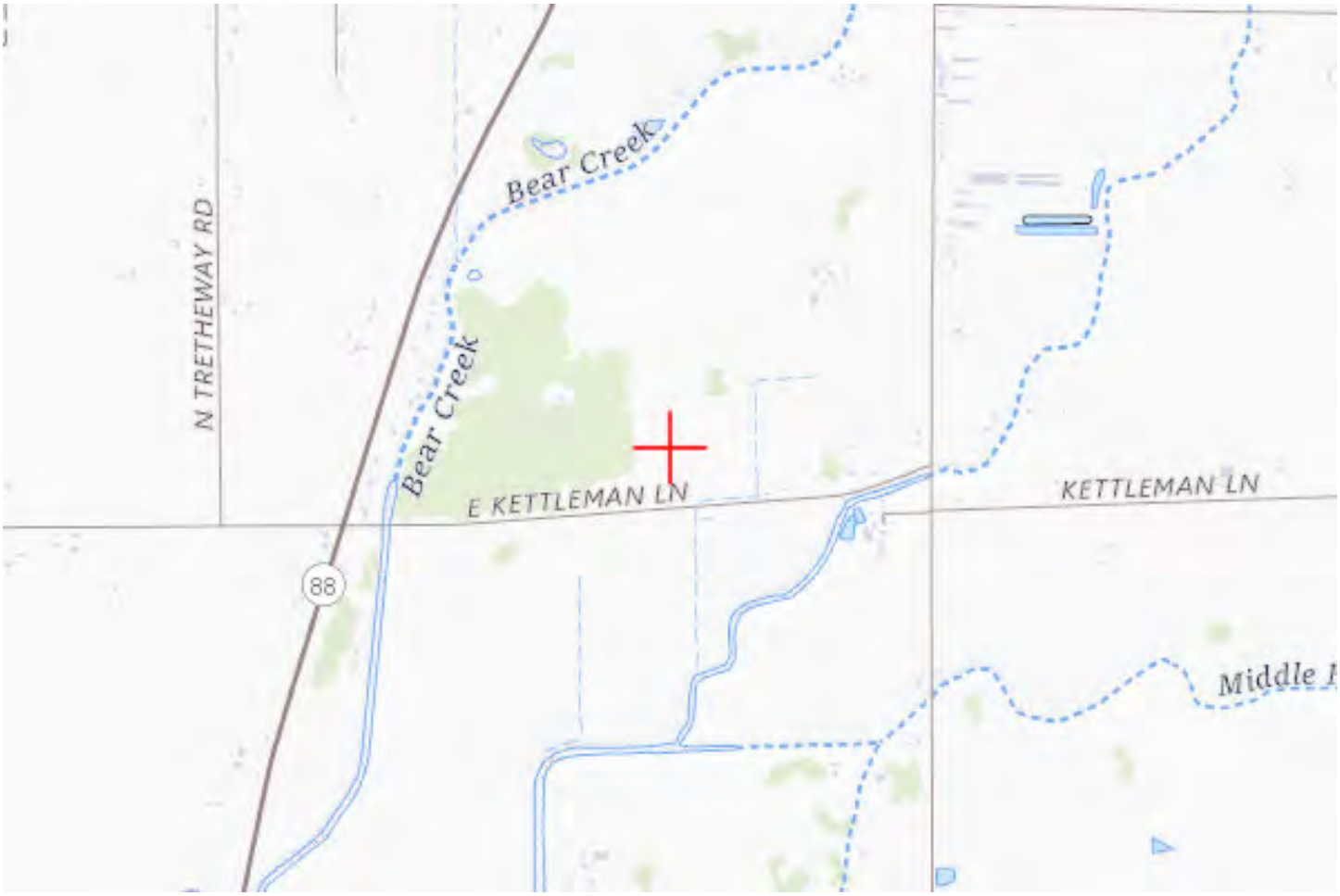
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7232-OE.

Signature Control No: 521428092-526160060 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7232-OE



Sectional Map for ASN 2022-AWP-7232-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7233-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-51
Location:	Woodbridge, CA
Latitude:	38-07-07.68N NAD 83
Longitude:	121-09-29.36W
Heights:	83 feet site elevation (SE)
	120 feet above ground level (AGL)
	203 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

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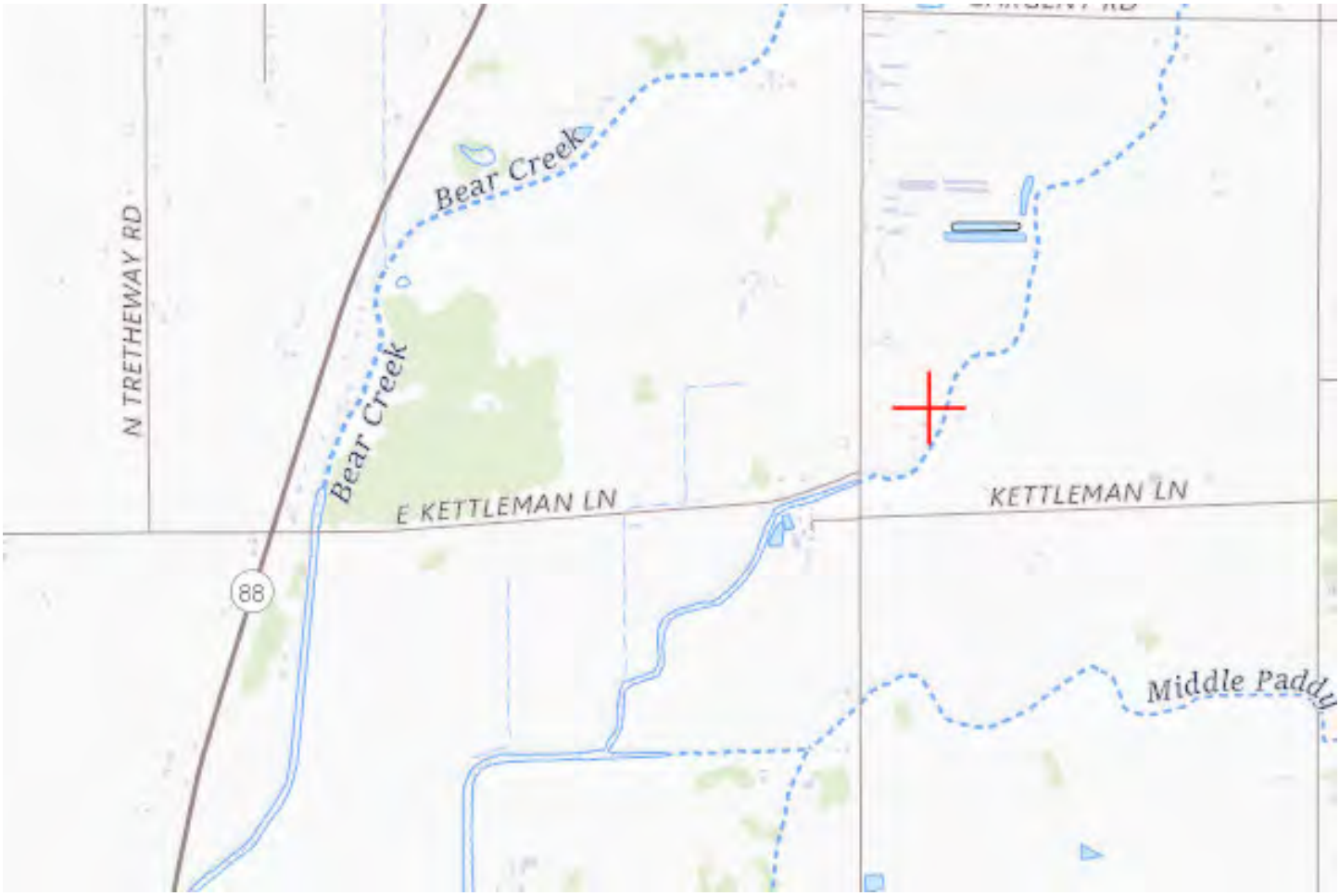
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7233-OE.

Signature Control No: 521428094-526160070 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7233-OE



Sectional Map for ASN 2022-AWP-7233-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7234-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-52
Location:	Woodbridge, CA
Latitude:	38-07-08.13N NAD 83
Longitude:	121-09-24.64W
Heights:	83 feet site elevation (SE)
	130 feet above ground level (AGL)
	213 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

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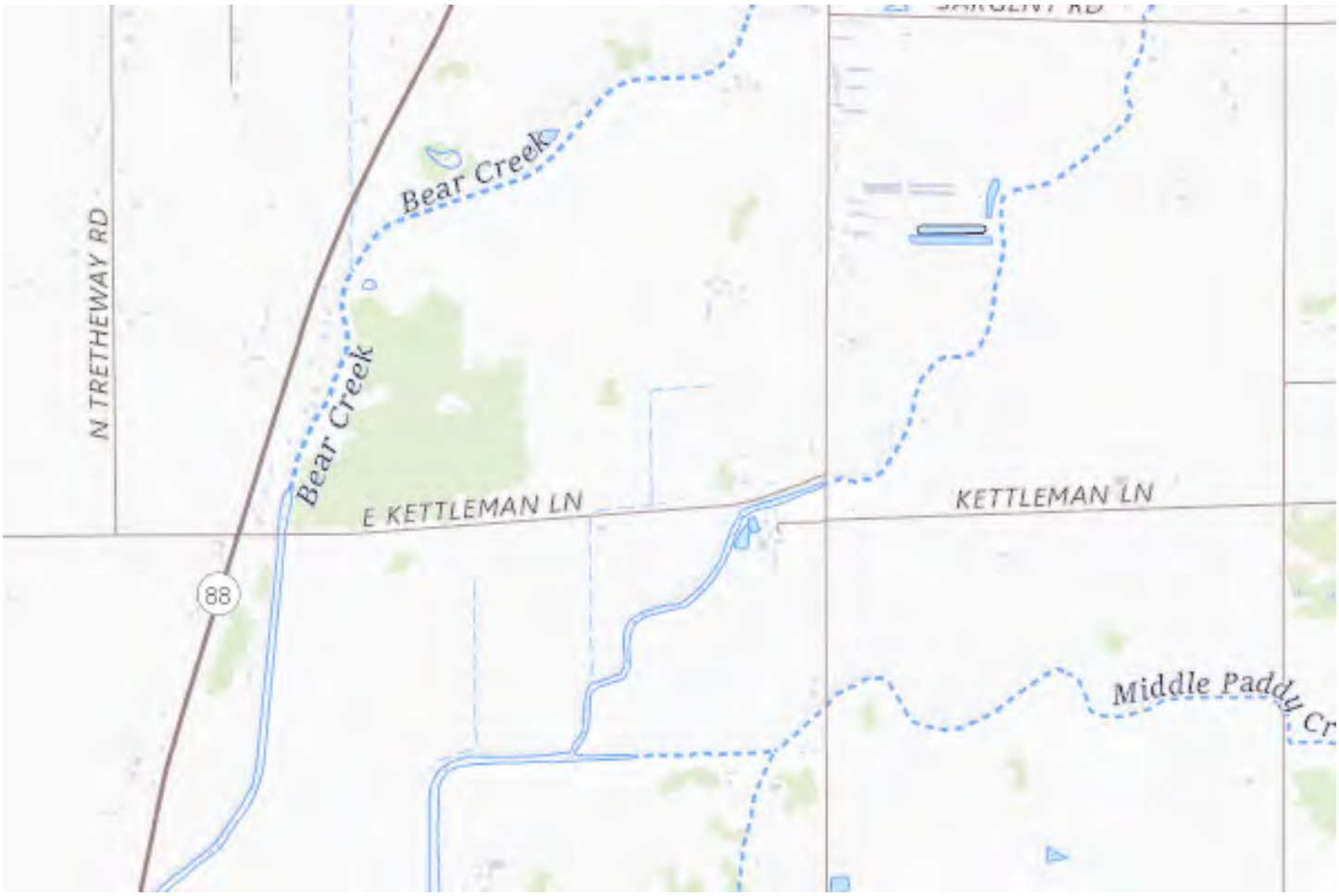
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7234-OE.

Signature Control No: 521428096-526160057 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7234-OE



Sectional Map for ASN 2022-AWP-7234-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7235-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-53
Location:	Woodbridge, CA
Latitude:	38-07-08.59N NAD 83
Longitude:	121-09-19.90W
Heights:	84 feet site elevation (SE) 120 feet above ground level (AGL) 204 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

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NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

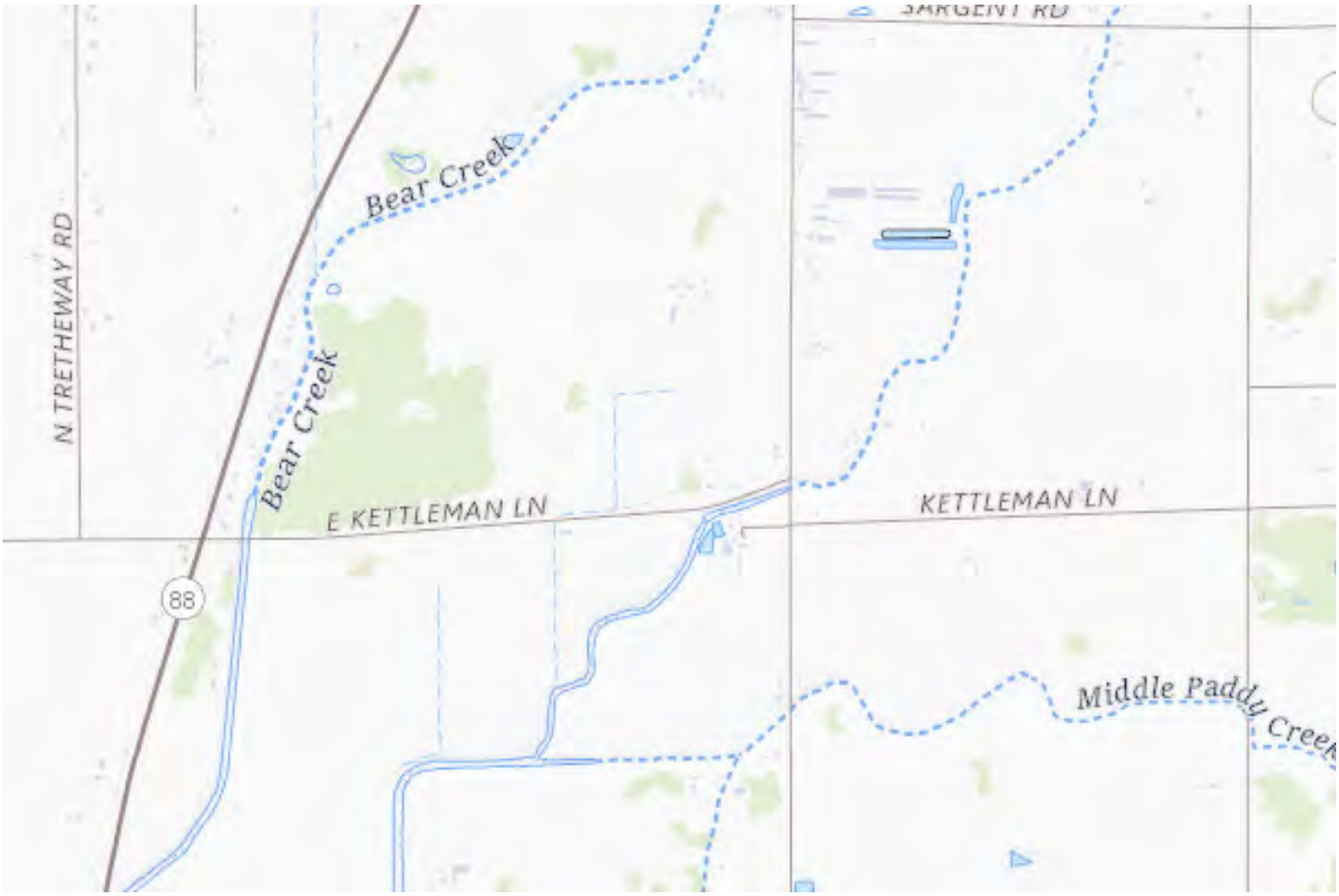
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7235-OE.

Signature Control No: 521428097-526160067 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7235-OE



Sectional Map for ASN 2022-AWP-7235-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7236-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-54
Location:	Woodbridge, CA
Latitude:	38-07-10.21N NAD 83
Longitude:	121-09-11.69W
Heights:	86 feet site elevation (SE) 130 feet above ground level (AGL) 216 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7236-OE.

Signature Control No: 521428099-526160059 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7236-OE



Sectional Map for ASN 2022-AWP-7236-OE



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Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7237-OE

Issued Date: 04/26/2022

Andrew Davies
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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-55
Location:	Woodbridge, CA
Latitude:	38-07-11.68N NAD 83
Longitude:	121-09-04.22W
Heights:	85 feet site elevation (SE)
	120 feet above ground level (AGL)
	205 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7237-OE.

Signature Control No: 521428100-526160065 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7237-OE



Sectional Map for ASN 2022-AWP-7237-OE



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Federal Aviation Administration
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Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7238-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-56
Location:	Woodbridge, CA
Latitude:	38-07-12.02N NAD 83
Longitude:	121-08-53.43W
Heights:	86 feet site elevation (SE) 130 feet above ground level (AGL) 216 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7238-OE.

Signature Control No: 521428102-526160061 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7238-OE



Sectional Map for ASN 2022-AWP-7238-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7239-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-57
Location:	Woodbridge, CA
Latitude:	38-07-12.35N NAD 83
Longitude:	121-08-43.01W
Heights:	89 feet site elevation (SE) 130 feet above ground level (AGL) 219 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7239-OE.

Signature Control No: 521428103-526160068 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7239-OE



Sectional Map for ASN 2022-AWP-7239-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7240-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-58
Location:	Woodbridge, CA
Latitude:	38-07-12.68N NAD 83
Longitude:	121-08-32.45W
Heights:	90 feet site elevation (SE) 120 feet above ground level (AGL) 210 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7240-OE.

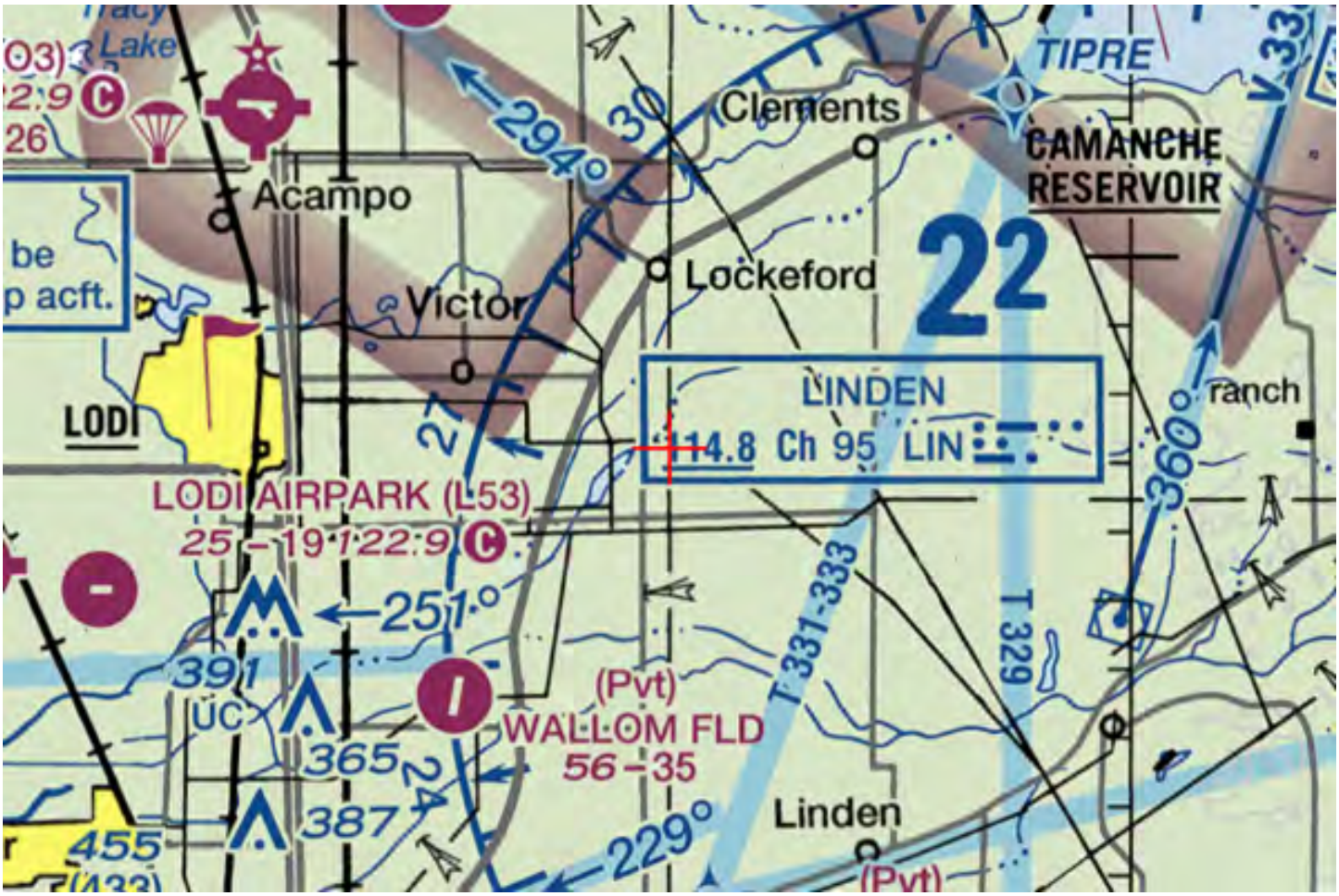
Signature Control No: 521428105-526160075 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7240-OE



Sectional Map for ASN 2022-AWP-7240-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7241-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-59
Location:	Woodbridge, CA
Latitude:	38-07-09.59N NAD 83
Longitude:	121-08-20.34W
Heights:	91 feet site elevation (SE) 165 feet above ground level (AGL) 256 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7241-OE.

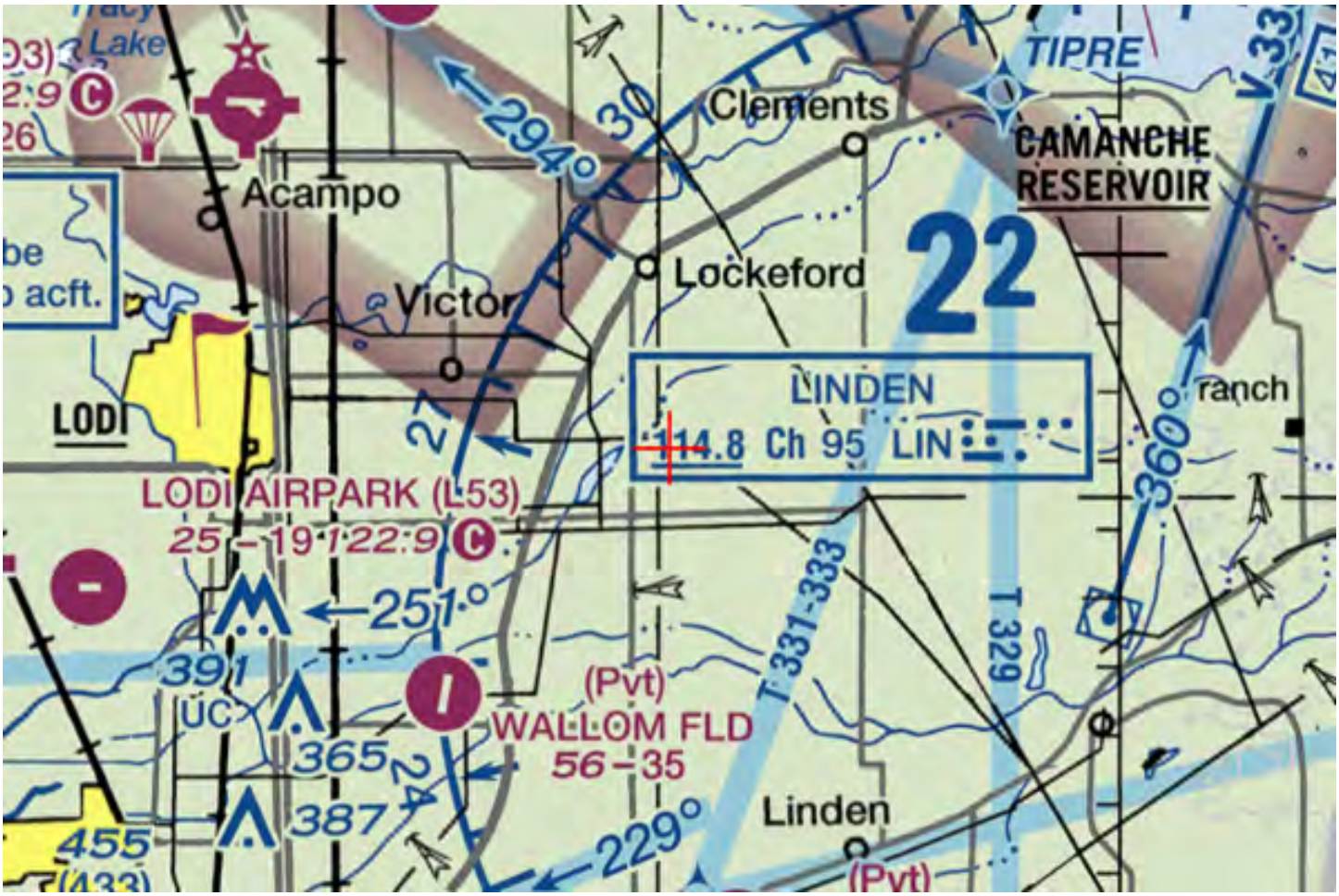
Signature Control No: 521428106-526160073 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7241-OE



Sectional Map for ASN 2022-AWP-7241-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7242-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-60
Location:	Woodbridge, CA
Latitude:	38-07-09.95N NAD 83
Longitude:	121-08-07.04W
Heights:	92 feet site elevation (SE) 150 feet above ground level (AGL) 242 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7242-OE.

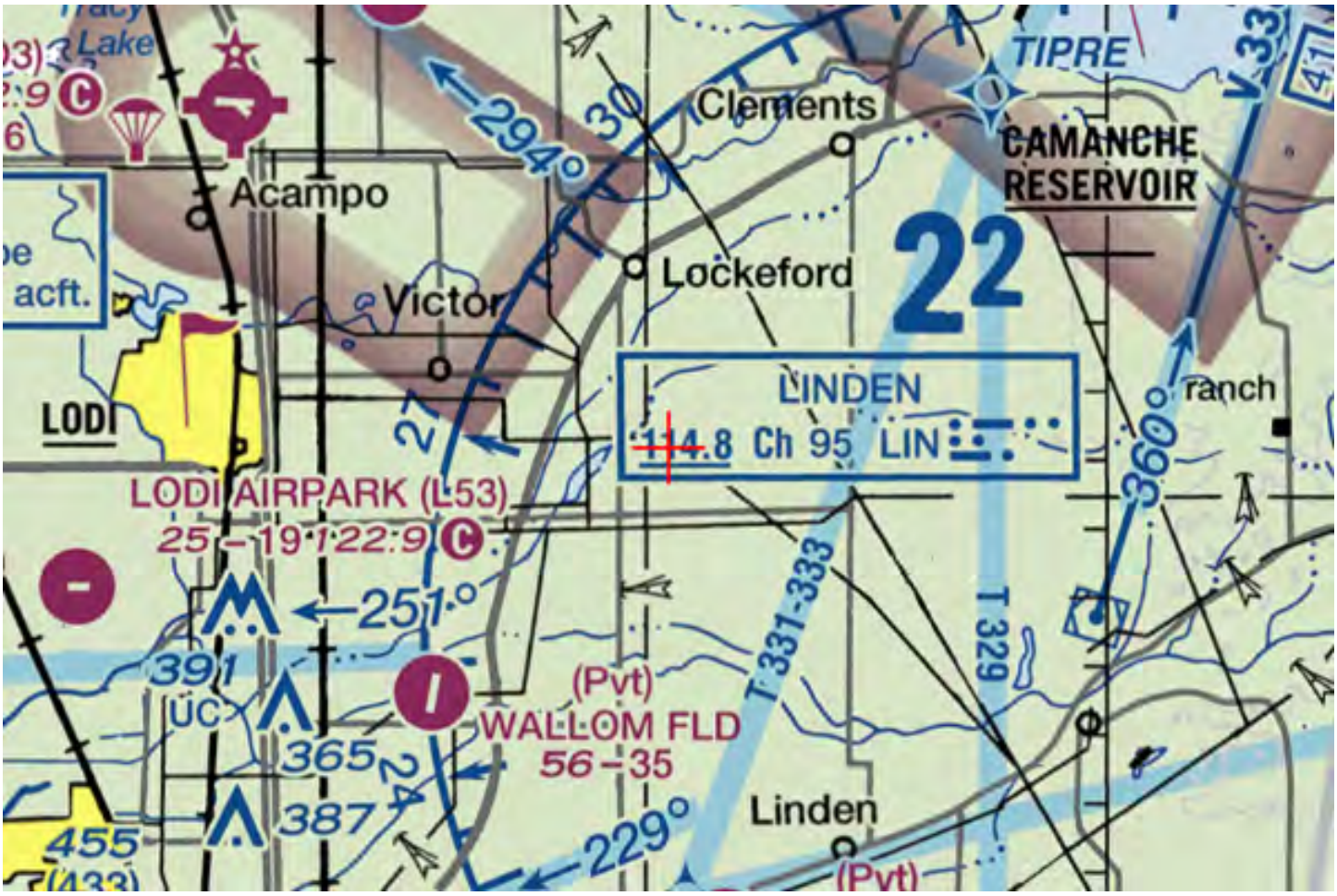
Signature Control No: 521428108-526160064 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7242-OE



Sectional Map for ASN 2022-AWP-7242-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7243-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-61
Location:	Woodbridge, CA
Latitude:	38-07-10.30N NAD 83
Longitude:	121-07-53.76W
Heights:	96 feet site elevation (SE) 150 feet above ground level (AGL) 246 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7243-OE.

Signature Control No: 521428109-526160074 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7243-OE



Sectional Map for ASN 2022-AWP-7243-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7244-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-62
Location:	Woodbridge, CA
Latitude:	38-07-10.65N NAD 83
Longitude:	121-07-40.49W
Heights:	101 feet site elevation (SE) 140 feet above ground level (AGL) 241 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

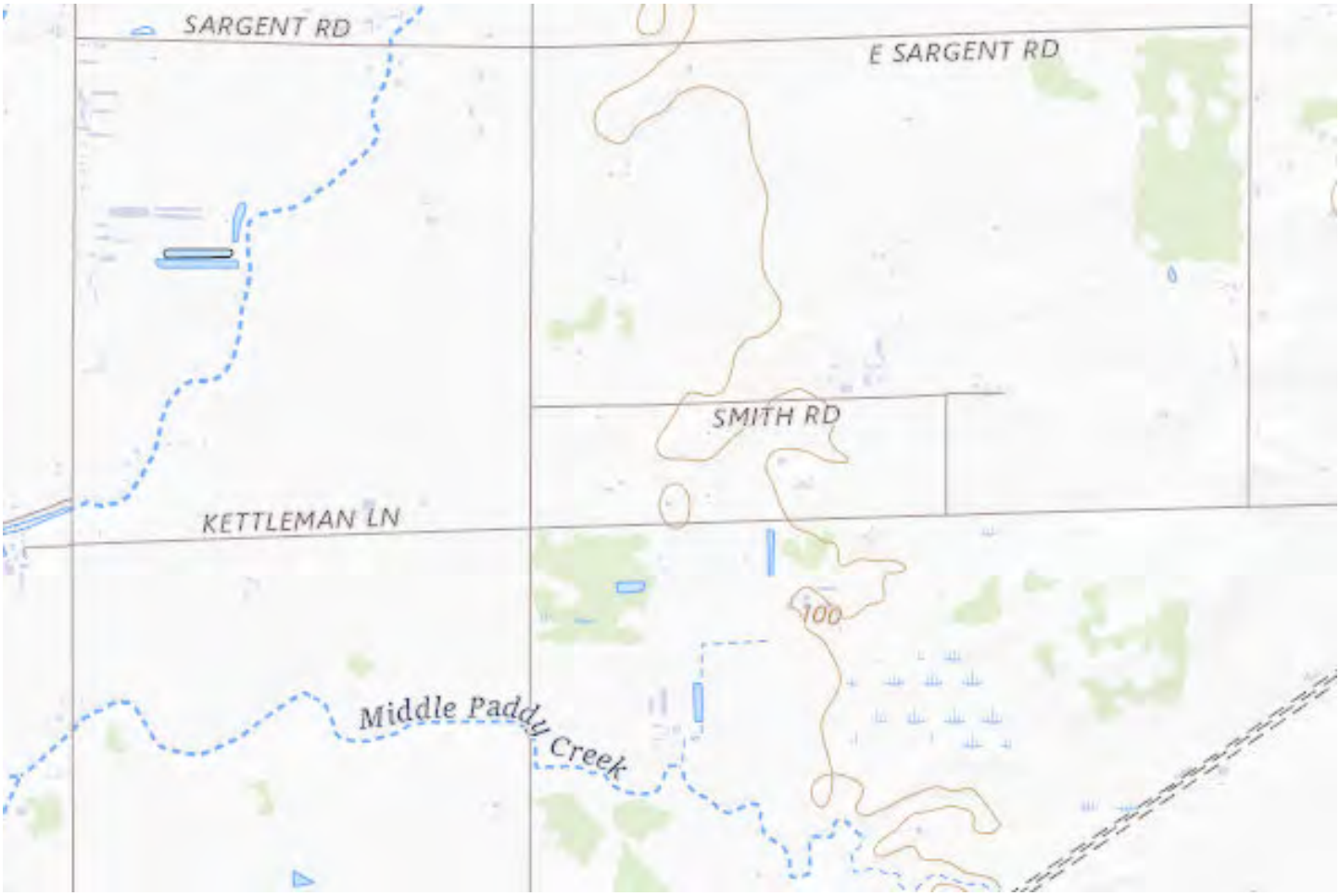
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7244-OE.

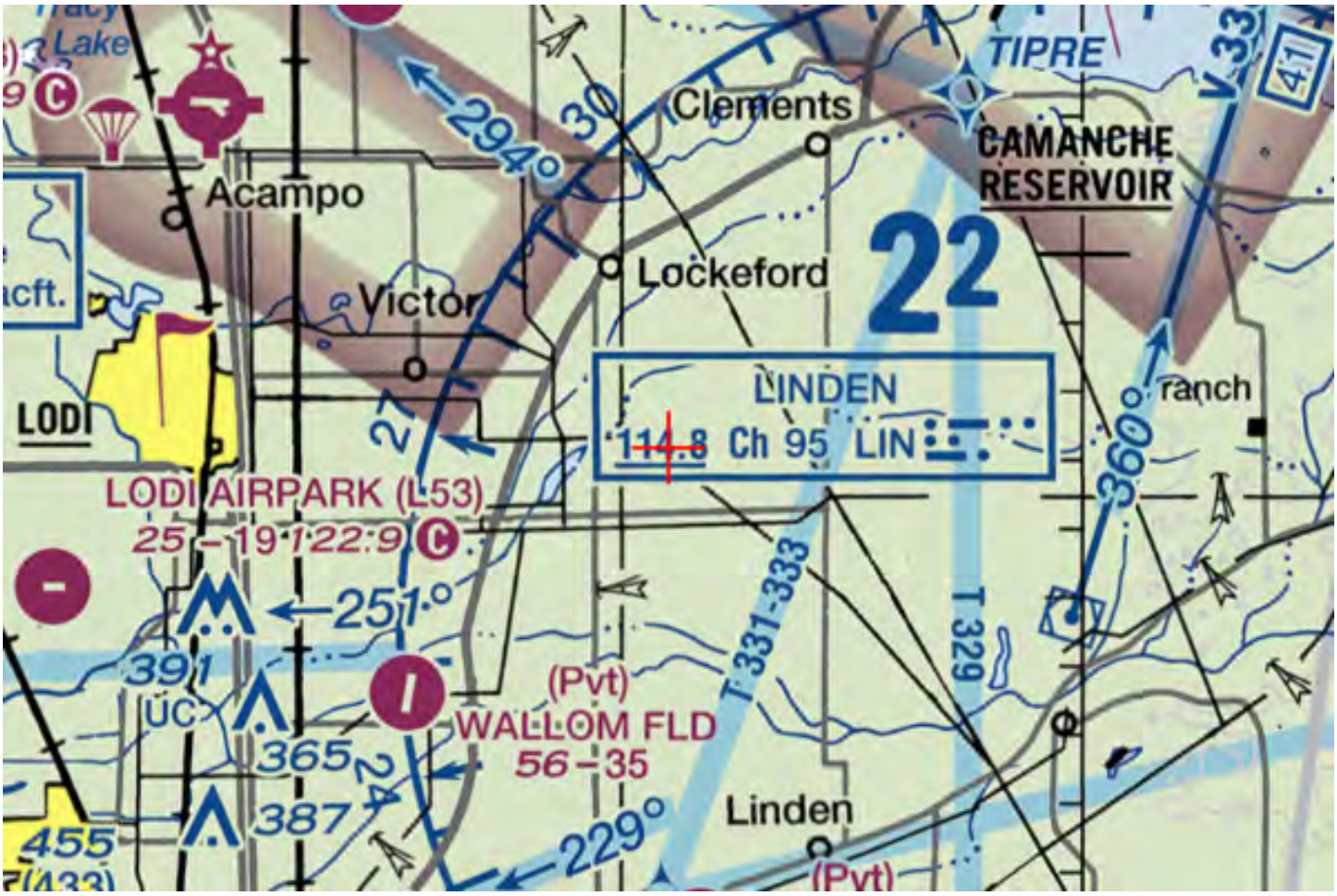
Signature Control No: 521428111-526160062 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7244-OE



Sectional Map for ASN 2022-AWP-7244-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7245-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-63
Location:	Woodbridge, CA
Latitude:	38-07-11.00N NAD 83
Longitude:	121-07-27.20W
Heights:	100 feet site elevation (SE) 135 feet above ground level (AGL) 235 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

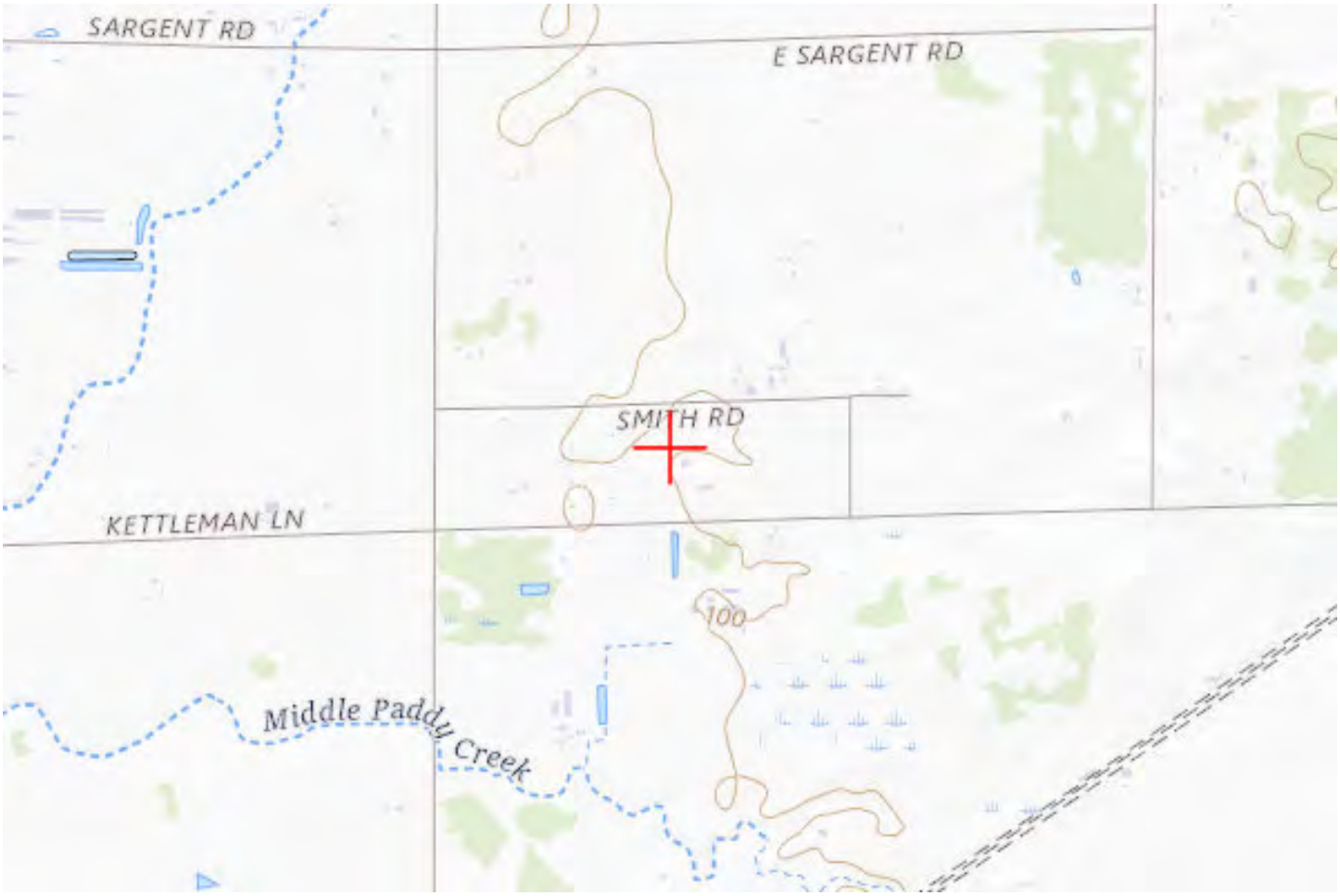
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7245-OE.

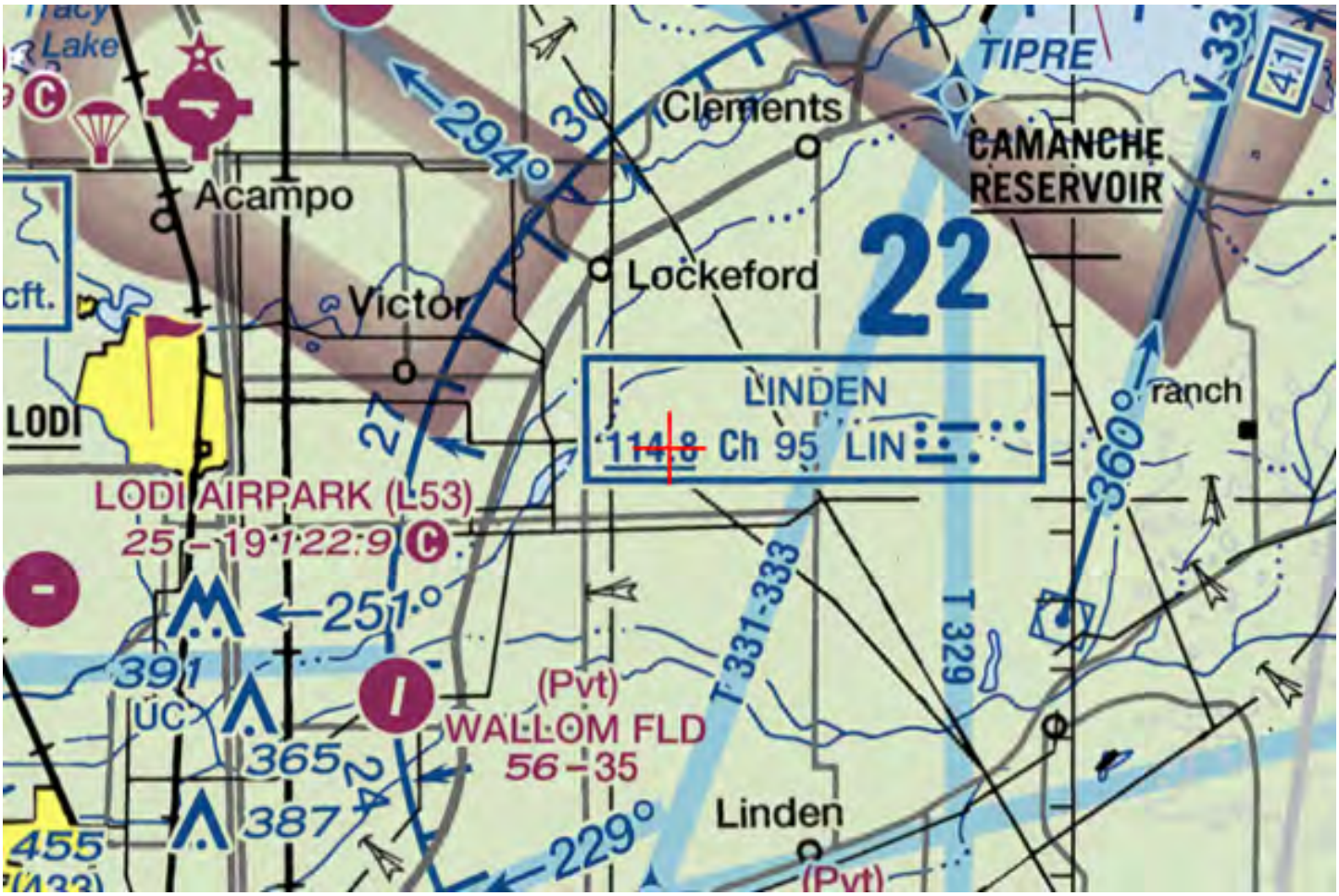
Signature Control No: 521428113-526160069 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7245-OE



Sectional Map for ASN 2022-AWP-7245-OE



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Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7246-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-64
Location:	Woodbridge, CA
Latitude:	38-07-11.35N NAD 83
Longitude:	121-07-13.91W
Heights:	99 feet site elevation (SE) 135 feet above ground level (AGL) 234 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7246-OE.

Signature Control No: 521428114-526160072 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7246-OE



Sectional Map for ASN 2022-AWP-7246-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7247-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-65
Location:	Woodbridge, CA
Latitude:	38-07-11.69N NAD 83
Longitude:	121-07-00.66W
Heights:	102 feet site elevation (SE)
	135 feet above ground level (AGL)
	237 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

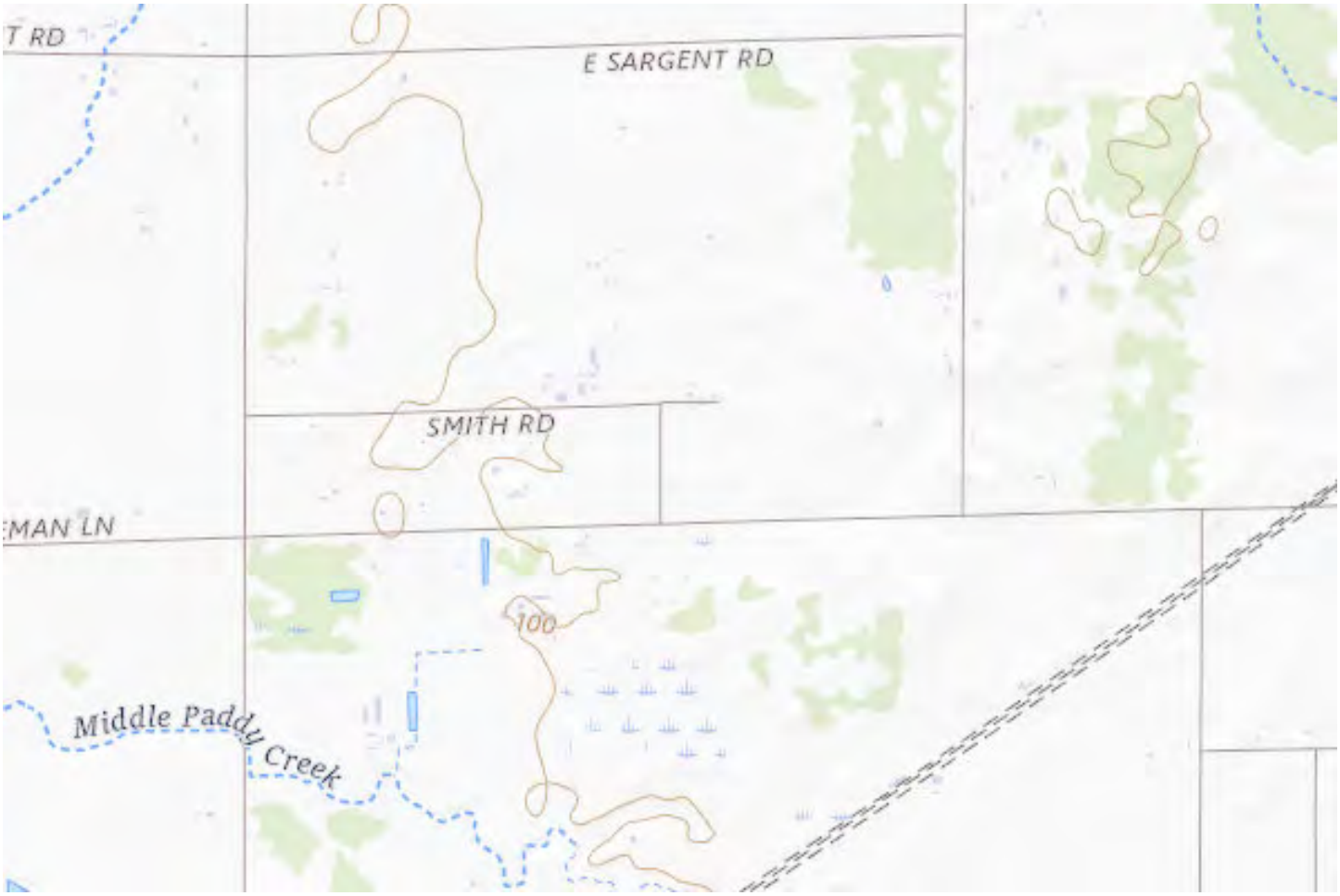
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7247-OE.

Signature Control No: 521428116-526164227 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7247-OE



Sectional Map for ASN 2022-AWP-7247-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7248-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-66
Location:	Woodbridge, CA
Latitude:	38-07-12.03N NAD 83
Longitude:	121-06-47.77W
Heights:	108 feet site elevation (SE) 130 feet above ground level (AGL) 238 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

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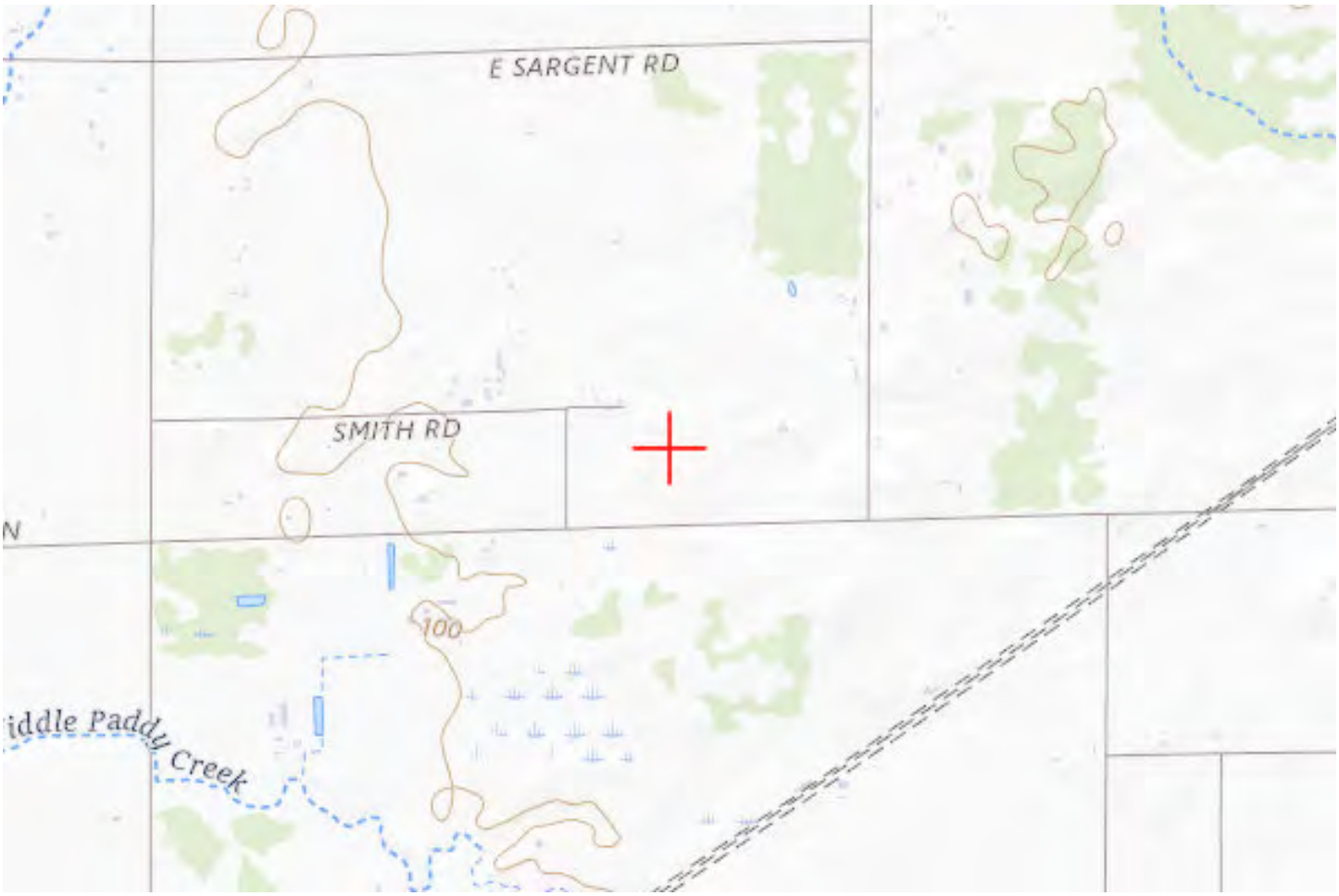
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7248-OE.

Signature Control No: 521428117-526164224 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7248-OE



Sectional Map for ASN 2022-AWP-7248-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7249-OE

Issued Date: 04/26/2022

Andrew Davies
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220 Newport Center Dr.
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-67
Location:	Woodbridge, CA
Latitude:	38-07-17.41N NAD 83
Longitude:	121-06-36.68W
Heights:	115 feet site elevation (SE) 130 feet above ground level (AGL) 245 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

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NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7249-OE.

Signature Control No: 521428119-526164222 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7249-OE



Sectional Map for ASN 2022-AWP-7249-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7250-OE

Issued Date: 04/26/2022

Andrew Davies
PG&E
220 Newport Center Dr.
SUITE 11-262
Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-68
Location:	Woodbridge, CA
Latitude:	38-07-17.77N NAD 83
Longitude:	121-06-23.09W
Heights:	117 feet site elevation (SE) 145 feet above ground level (AGL) 262 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

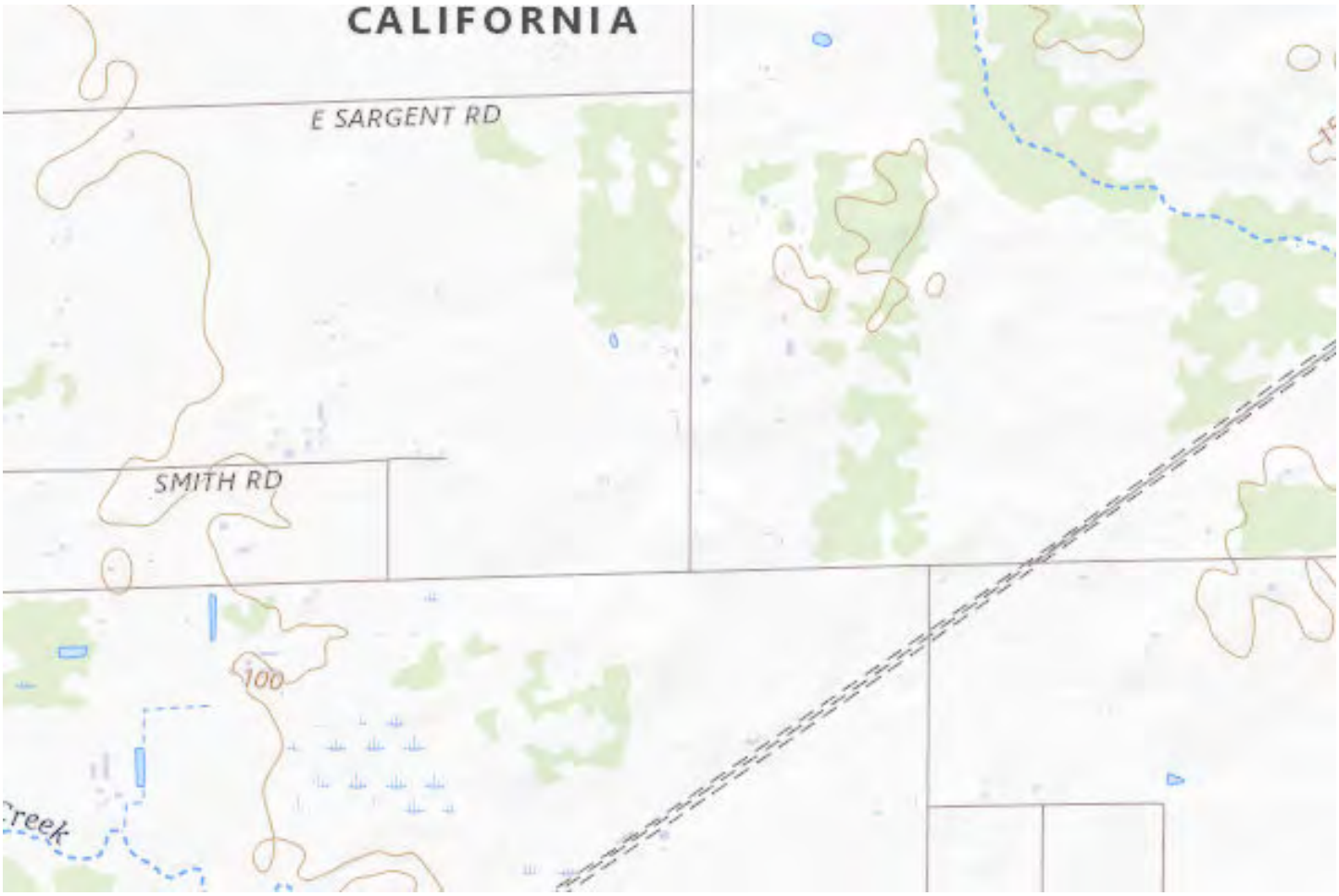
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7250-OE.

Signature Control No: 521428121-526164226 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7250-OE



Sectional Map for ASN 2022-AWP-7250-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7251-OE

Issued Date: 04/26/2022

Andrew Davies
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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-69
Location:	Woodbridge, CA
Latitude:	38-07-18.14N NAD 83
Longitude:	121-06-08.84W
Heights:	128 feet site elevation (SE) 140 feet above ground level (AGL) 268 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

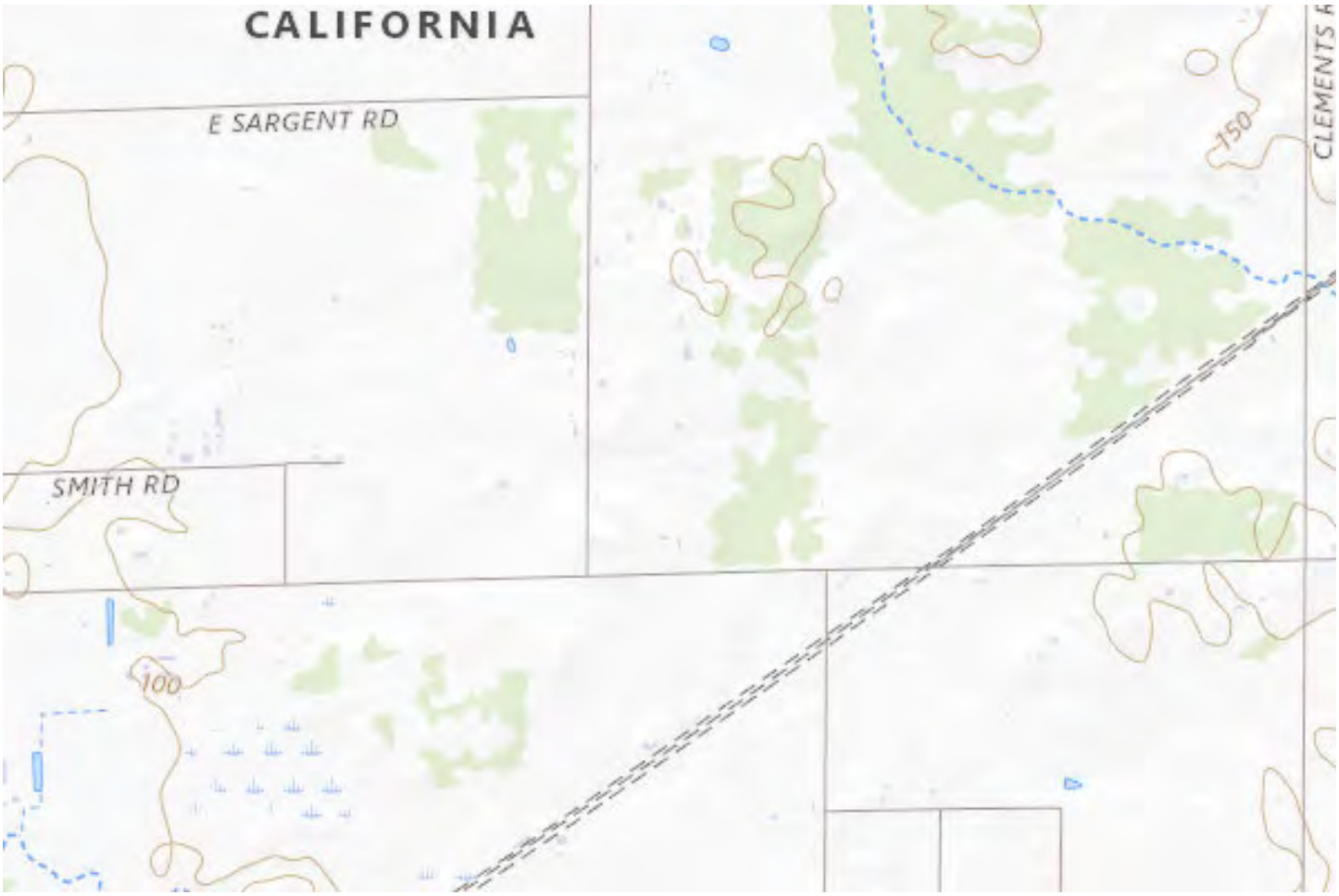
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7251-OE.

Signature Control No: 521428122-526164223 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7251-OE



Sectional Map for ASN 2022-AWP-7251-OE



Mail Processing Center
Federal Aviation Administration
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10101 Hillwood Parkway
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Aeronautical Study No.
2022-AWP-7252-OE

Issued Date: 04/26/2022

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**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-70
Location:	Woodbridge, CA
Latitude:	38-07-18.48N NAD 83
Longitude:	121-05-56.25W
Heights:	120 feet site elevation (SE) 140 feet above ground level (AGL) 260 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7252-OE.

Signature Control No: 521428124-526164229 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7252-OE



Sectional Map for ASN 2022-AWP-7252-OE



Mail Processing Center
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10101 Hillwood Parkway
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Aeronautical Study No.
2022-AWP-7253-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-71
Location:	Woodbridge, CA
Latitude:	38-07-18.82N NAD 83
Longitude:	121-05-43.01W
Heights:	123 feet site elevation (SE) 150 feet above ground level (AGL) 273 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7253-OE.

Signature Control No: 521428125-526164225 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7253-OE



Sectional Map for ASN 2022-AWP-7253-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7254-OE

Issued Date: 04/26/2022

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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-72
Location:	Woodbridge, CA
Latitude:	38-07-19.15N NAD 83
Longitude:	121-05-30.67W
Heights:	130 feet site elevation (SE) 130 feet above ground level (AGL) 260 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

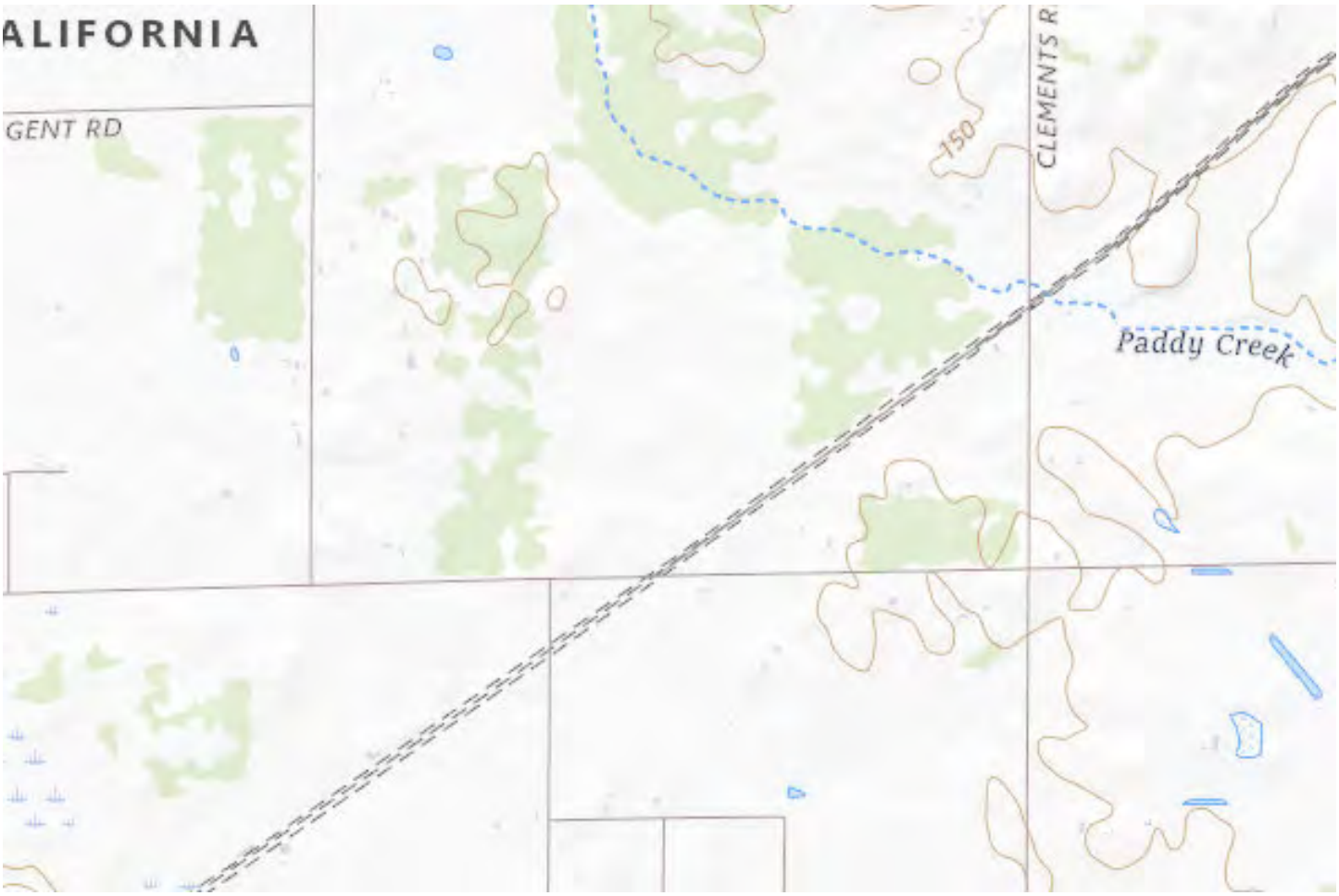
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7254-OE.

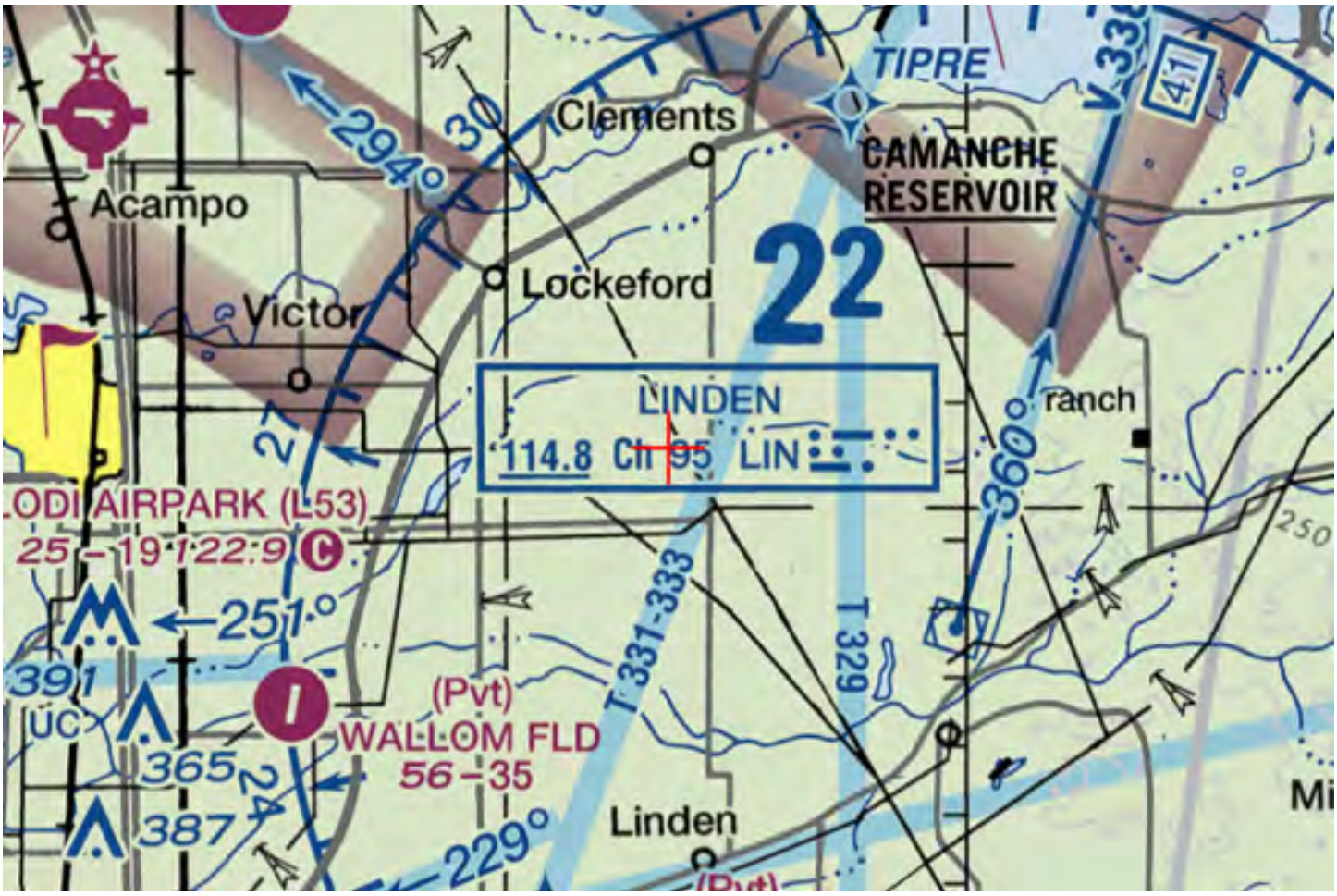
Signature Control No: 521428127-526164228 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7254-OE



Sectional Map for ASN 2022-AWP-7254-OE



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-AWP-7255-OE

Issued Date: 04/26/2022

Andrew Davies
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Newport Beach, CA 92660

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Utility Pole 74000933-Thurman-Lockeford-Bellota-73
Location:	Woodbridge, CA
Latitude:	38-07-19.38N NAD 83
Longitude:	121-05-21.71W
Heights:	133 feet site elevation (SE)
	115 feet above ground level (AGL)
	248 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/26/2023 unless:

(a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
(b) extended, revised, or terminated by the issuing office.
(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-7255-OE.

Signature Control No: 521428128-526164221 (DNE)
Daniel Shoemaker
Specialist

Attachment(s)
Map(s)

TOPO Map for ASN 2022-AWP-7255-OE



Sectional Map for ASN 2022-AWP-7255-OE

